

Summary : RESRAD Default

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Dose Conversion Factor (and Related) Parameter Summary

Dose Library: Zion ROC Screen BFM Plus FGR 11

Menu	Parameter	Current Value#	Base Case*	Parameter Name
A-1	DCF's for external ground radiation, (mrem/yr)/(pCi/g)			
A-1	Ac-225 (Source: FGR 12)	6.371E-02	6.371E-02	DCF1 (1)
A-1	Ac-227 (Source: FGR 12)	4.951E-04	4.951E-04	DCF1 (2)
A-1	Ac-228 (Source: FGR 12)	5.978E+00	5.978E+00	DCF1 (3)
A-1	Ag-108 (Source: FGR 12)	1.143E-01	1.143E-01	DCF1 (4)
A-1	Ag-108m (Source: FGR 12)	9.640E+00	9.640E+00	DCF1 (5)
A-1	Am-241 (Source: FGR 12)	4.372E-02	4.372E-02	DCF1 (6)
A-1	Am-243 (Source: FGR 12)	1.420E-01	1.420E-01	DCF1 (7)
A-1	At-217 (Source: FGR 12)	1.773E-03	1.773E-03	DCF1 (8)
A-1	At-218 (Source: FGR 12)	5.847E-03	5.847E-03	DCF1 (9)
A-1	At-219 (Source: no data)	0.000E+00	-2.000E+00	DCF1 (10)
A-1	Ba-137m (Source: FGR 12)	3.606E+00	3.606E+00	DCF1 (11)
A-1	Bi-210 (Source: FGR 12)	3.606E-03	3.606E-03	DCF1 (12)
A-1	Bi-211 (Source: FGR 12)	2.559E-01	2.559E-01	DCF1 (13)
A-1	Bi-212 (Source: FGR 12)	1.171E+00	1.171E+00	DCF1 (14)
A-1	Bi-213 (Source: FGR 12)	7.660E-01	7.660E-01	DCF1 (15)
A-1	Bi-214 (Source: FGR 12)	9.808E+00	9.808E+00	DCF1 (16)
A-1	Bi-215 (Source: no data)	0.000E+00	-2.000E+00	DCF1 (17)
A-1	C-14 (Source: FGR 12)	1.345E-05	1.345E-05	DCF1 (18)
A-1	Cm-243 (Source: FGR 12)	5.829E-01	5.829E-01	DCF1 (19)
A-1	Cm-244 (Source: FGR 12)	1.259E-04	1.259E-04	DCF1 (20)
A-1	Co-60 (Source: FGR 12)	1.622E+01	1.622E+01	DCF1 (21)
A-1	Cs-134 (Source: FGR 12)	9.472E+00	9.472E+00	DCF1 (22)
A-1	Cs-137 (Source: FGR 12)	7.510E-04	7.510E-04	DCF1 (23)
A-1	Eu-152 (Source: FGR 12)	7.006E+00	7.006E+00	DCF1 (24)
A-1	Eu-154 (Source: FGR 12)	7.678E+00	7.678E+00	DCF1 (25)
A-1	Eu-155 (Source: FGR 12)	1.822E-01	1.822E-01	DCF1 (26)
A-1	Fe-55 (Source: FGR 12)	0.000E+00	0.000E+00	DCF1 (27)
A-1	Fr-221 (Source: FGR 12)	1.536E-01	1.536E-01	DCF1 (28)
A-1	Fr-223 (Source: FGR 12)	1.980E-01	1.980E-01	DCF1 (29)
A-1	Gd-152 (Source: FGR 12)	0.000E+00	0.000E+00	DCF1 (30)
A-1	H-3 (Source: FGR 12)	0.000E+00	0.000E+00	DCF1 (31)
A-1	Hg-206 (Source: no data)	0.000E+00	-2.000E+00	DCF1 (32)
A-1	Nb-94 (Source: FGR 12)	9.677E+00	9.677E+00	DCF1 (33)
A-1	Nd-144 (Source: Zion ROC Screen BFM)	0.000E+00	-1.000E+00	DCF1 (34)
A-1	Ni-59 (Source: FGR 12)	0.000E+00	0.000E+00	DCF1 (35)
A-1	Ni-63 (Source: FGR 12)	0.000E+00	0.000E+00	DCF1 (36)
A-1	Np-237 (Source: FGR 12)	7.790E-02	7.790E-02	DCF1 (37)
A-1	Np-239 (Source: FGR 12)	7.529E-01	7.529E-01	DCF1 (38)
A-1	Pa-231 (Source: FGR 12)	1.906E-01	1.906E-01	DCF1 (39)
A-1	Pa-233 (Source: FGR 12)	1.020E+00	1.020E+00	DCF1 (40)
A-1	Pb-209 (Source: FGR 12)	7.734E-04	7.734E-04	DCF1 (41)
A-1	Pb-210 (Source: FGR 12)	2.447E-03	2.447E-03	DCF1 (42)
A-1	Pb-211 (Source: FGR 12)	3.064E-01	3.064E-01	DCF1 (43)
A-1	Pb-212 (Source: FGR 12)	7.043E-01	7.043E-01	DCF1 (44)
A-1	Pb-214 (Source: FGR 12)	1.341E+00	1.341E+00	DCF1 (45)
A-1	Pm-147 (Source: FGR 12)	5.007E-05	5.007E-05	DCF1 (46)
A-1	Po-210 (Source: FGR 12)	5.231E-05	5.231E-05	DCF1 (47)
A-1	Po-211 (Source: FGR 12)	4.764E-02	4.764E-02	DCF1 (48)
A-1	Po-212 (Source: FGR 12)	0.000E+00	0.000E+00	DCF1 (49)

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Dose Conversion Factor (and Related) Parameter Summary (continued)

Dose Library: Zion ROC Screen BFM Plus FGR 11

Menu	Parameter	Current Value#	Base Case*	Parameter Name
A-1	Po-213 (Source: FGR 12)	0.000E+00	0.000E+00	DCF1 (50)
A-1	Po-214 (Source: FGR 12)	5.138E-04	5.138E-04	DCF1 (51)
A-1	Po-215 (Source: FGR 12)	1.016E-03	1.016E-03	DCF1 (52)
A-1	Po-216 (Source: FGR 12)	1.042E-04	1.042E-04	DCF1 (53)
A-1	Po-218 (Source: FGR 12)	5.642E-05	5.642E-05	DCF1 (54)
A-1	Pu-238 (Source: FGR 12)	1.513E-04	1.513E-04	DCF1 (55)
A-1	Pu-239 (Source: FGR 12)	2.952E-04	2.952E-04	DCF1 (56)
A-1	Pu-240 (Source: FGR 12)	1.467E-04	1.467E-04	DCF1 (57)
A-1	Pu-241 (Source: FGR 12)	5.904E-06	5.904E-06	DCF1 (58)
A-1	Ra-223 (Source: FGR 12)	6.034E-01	6.034E-01	DCF1 (59)
A-1	Ra-224 (Source: FGR 12)	5.119E-02	5.119E-02	DCF1 (60)
A-1	Ra-225 (Source: FGR 12)	1.102E-02	1.102E-02	DCF1 (61)
A-1	Ra-226 (Source: FGR 12)	3.176E-02	3.176E-02	DCF1 (62)
A-1	Ra-228 (Source: FGR 12)	0.000E+00	0.000E+00	DCF1 (63)
A-1	Rn-218 (Source: FGR 12)	4.540E-03	4.540E-03	DCF1 (64)
A-1	Rn-219 (Source: FGR 12)	3.083E-01	3.083E-01	DCF1 (65)
A-1	Rn-220 (Source: FGR 12)	2.298E-03	2.298E-03	DCF1 (66)
A-1	Rn-222 (Source: FGR 12)	2.354E-03	2.354E-03	DCF1 (67)
A-1	Sb-125 (Source: FGR 12)	2.447E+00	2.447E+00	DCF1 (68)
A-1	Sm-147 (Source: FGR 12)	0.000E+00	0.000E+00	DCF1 (69)
A-1	Sm-148 (Source: Zion ROC Screen BFM)	0.000E+00	-1.000E+00	DCF1 (70)
A-1	Sr-90 (Source: FGR 12)	7.043E-04	7.043E-04	DCF1 (71)
A-1	Tc-99 (Source: FGR 12)	1.255E-04	1.255E-04	DCF1 (72)
A-1	Te-125m (Source: FGR 12)	1.515E-02	1.515E-02	DCF1 (73)
A-1	Th-227 (Source: FGR 12)	5.212E-01	5.212E-01	DCF1 (74)
A-1	Th-228 (Source: FGR 12)	7.940E-03	7.940E-03	DCF1 (75)
A-1	Th-229 (Source: FGR 12)	3.213E-01	3.213E-01	DCF1 (76)
A-1	Th-230 (Source: FGR 12)	1.209E-03	1.209E-03	DCF1 (77)
A-1	Th-231 (Source: FGR 12)	3.643E-02	3.643E-02	DCF1 (78)
A-1	Th-232 (Source: FGR 12)	5.212E-04	5.212E-04	DCF1 (79)
A-1	Tl-206 (Source: FGR 12)	7.697E-03	7.697E-03	DCF1 (80)
A-1	Tl-207 (Source: FGR 12)	1.980E-02	1.980E-02	DCF1 (81)
A-1	Tl-208 (Source: FGR 12)	2.298E+01	2.298E+01	DCF1 (82)
A-1	Tl-209 (Source: FGR 12)	1.293E+01	1.293E+01	DCF1 (83)
A-1	Tl-210 (Source: no data)	0.000E+00	-2.000E+00	DCF1 (84)
A-1	U-233 (Source: FGR 12)	1.397E-03	1.397E-03	DCF1 (85)
A-1	U-234 (Source: FGR 12)	4.017E-04	4.017E-04	DCF1 (86)
A-1	U-235 (Source: FGR 12)	7.211E-01	7.211E-01	DCF1 (87)
A-1	U-235m (Source: no data)	0.000E+00	-1.000E+00	DCF1 (88)
A-1	U-236 (Source: FGR 12)	2.148E-04	2.148E-04	DCF1 (89)
A-1	U-237 (Source: FGR 12)	5.306E-01	5.306E-01	DCF1 (90)
A-1	Y-90 (Source: FGR 12)	2.391E-02	2.391E-02	DCF1 (91)
B-1	Dose conversion factors for inhalation, mrem/pCi:			
B-1	Ac-227+D	6.724E+00	6.700E+00	DCF2 (1)
B-1	Ac-227+D1	6.724E+00	6.700E+00	DCF2 (2)
B-1	Ac-227+D2	6.708E+00	6.700E+00	DCF2 (3)
B-1	Ac-227+D3	6.708E+00	6.700E+00	DCF2 (4)
B-1	Ac-227+D4	6.700E+00	6.700E+00	DCF2 (5)
B-1	Ac-227+D5	6.700E+00	6.700E+00	DCF2 (6)

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Dose Conversion Factor (and Related) Parameter Summary (continued)

Dose Library: Zion ROC Screen BFM Plus FGR 11

Menu	Parameter	Current Value#	Base Case*	Parameter Name
B-1	Ag-108m+D	2.830E-04	2.830E-04	DCF2(7)
B-1	Am-241	4.440E-01	4.440E-01	DCF2(8)
B-1	Am-243+D	4.400E-01	4.400E-01	DCF2(9)
B-1	C-14(p) (Class: ORGANIC)	2.090E-06	2.090E-06	DCF2(21)
B-1	C-14(g) (Class: CO2)	2.350E-08	2.350E-08	C14GInhDCF
B-1	Cm-243	3.070E-01	3.070E-01	DCF2(22)
B-1	Cm-244	2.480E-01	2.480E-01	DCF2(46)
B-1	Co-60	2.190E-04	2.190E-04	DCF2(49)
B-1	Cs-134	4.620E-05	4.620E-05	DCF2(50)
B-1	Cs-137+D	3.190E-05	3.190E-05	DCF2(51)
B-1	Eu-152	2.210E-04	2.210E-04	DCF2(52)
B-1	Eu-154	2.860E-04	2.860E-04	DCF2(54)
B-1	Eu-155	4.140E-05	4.140E-05	DCF2(55)
B-1	Fe-55	2.690E-06	2.690E-06	DCF2(56)
B-1	Gd-152	2.430E-01	2.430E-01	DCF2(57)
B-1	H-3	6.400E-08	6.400E-08	DCF2(58)
B-1	Nb-94	4.140E-04	4.140E-04	DCF2(59)
B-1	Nd-144	7.040E-02	-1.000E+00	DCF2(60)
B-1	Ni-59	2.700E-06	2.700E-06	DCF2(61)
B-1	Ni-63	6.290E-06	6.290E-06	DCF2(62)
B-1	Np-237+D	5.400E-01	5.400E-01	DCF2(63)
B-1	Pa-231	1.280E+00	1.280E+00	DCF2(64)
B-1	Pb-210+D	1.380E-02	1.360E-02	DCF2(70)
B-1	Pb-210+D1	1.380E-02	1.360E-02	DCF2(71)
B-1	Pb-210+D2	1.360E-02	1.360E-02	DCF2(72)
B-1	Pm-147	3.920E-05	3.920E-05	DCF2(73)
B-1	Po-210	9.400E-03	9.400E-03	DCF2(74)
B-1	Pu-238	3.920E-01	3.920E-01	DCF2(75)
B-1	Pu-239	4.290E-01	4.290E-01	DCF2(91)
B-1	Pu-239+D	4.290E-01	4.290E-01	DCF2(97)
B-1	Pu-240	4.290E-01	4.290E-01	DCF2(103)
B-1	Pu-241	8.250E-03	8.250E-03	DCF2(105)
B-1	Pu-241+D	8.254E-03	8.250E-03	DCF2(106)
B-1	Ra-226+D	8.594E-03	8.580E-03	DCF2(107)
B-1	Ra-226+D1	8.594E-03	8.580E-03	DCF2(110)
B-1	Ra-226+D2	8.587E-03	8.580E-03	DCF2(113)
B-1	Ra-226+D3	8.587E-03	8.580E-03	DCF2(116)
B-1	Ra-226+D4	8.580E-03	8.580E-03	DCF2(119)
B-1	Ra-228+D	5.078E-03	4.770E-03	DCF2(122)
B-1	Sb-125	1.220E-05	1.220E-05	DCF2(123)
B-1	Sm-147	7.470E-02	7.470E-02	DCF2(125)
B-1	Sm-148	7.340E-02	-1.000E+00	DCF2(126)
B-1	Sr-90+D	1.308E-03	1.300E-03	DCF2(127)
B-1	Tc-99	8.320E-06	8.320E-06	DCF2(128)
B-1	Te-125m	7.290E-06	7.290E-06	DCF2(129)
B-1	Th-228+D	3.454E-01	3.420E-01	DCF2(130)
B-1	Th-229+D	2.169E+00	2.150E+00	DCF2(131)
B-1	Th-230	3.260E-01	3.260E-01	DCF2(132)
B-1	Th-232	1.640E+00	1.640E+00	DCF2(147)
B-1	U-233	1.350E-01	1.350E-01	DCF2(148)

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Dose Conversion Factor (and Related) Parameter Summary (continued)

Dose Library: Zion ROC Screen BFM Plus FGR 11

Menu	Parameter	Current Value#	Base Case*	Parameter Name
B-1	U-234	1.320E-01	1.320E-01	DCF2(149)
B-1	U-235+D	1.230E-01	1.230E-01	DCF2(164)
B-1	U-236	1.250E-01	1.250E-01	DCF2(170)
D-1	Dose conversion factors for ingestion, mrem/pCi:			
D-1	Ac-227+D	1.480E-02	1.410E-02	DCF3(1)
D-1	Ac-227+D1	1.480E-02	1.410E-02	DCF3(2)
D-1	Ac-227+D2	1.477E-02	1.410E-02	DCF3(3)
D-1	Ac-227+D3	1.477E-02	1.410E-02	DCF3(4)
D-1	Ac-227+D4	1.411E-02	1.410E-02	DCF3(5)
D-1	Ac-227+D5	1.411E-02	1.410E-02	DCF3(6)
D-1	Ag-108m+D	7.620E-06	7.620E-06	DCF3(7)
D-1	Am-241	3.640E-03	3.640E-03	DCF3(8)
D-1	Am-243+D	3.623E-03	3.620E-03	DCF3(9)
D-1	C-14	2.090E-06	2.090E-06	DCF3(21)
D-1	Cm-243	2.510E-03	2.510E-03	DCF3(22)
D-1	Cm-244	2.020E-03	2.020E-03	DCF3(46)
D-1	Co-60	2.690E-05	2.690E-05	DCF3(49)
D-1	Cs-134	7.330E-05	7.330E-05	DCF3(50)
D-1	Cs-137+D	5.000E-05	5.000E-05	DCF3(51)
D-1	Eu-152	6.480E-06	6.480E-06	DCF3(52)
D-1	Eu-154	9.550E-06	9.550E-06	DCF3(54)
D-1	Eu-155	1.530E-06	1.530E-06	DCF3(55)
D-1	Fe-55	6.070E-07	6.070E-07	DCF3(56)
D-1	Gd-152	1.610E-04	1.610E-04	DCF3(57)
D-1	H-3	6.400E-08	6.400E-08	DCF3(58)
D-1	Nb-94	7.140E-06	7.140E-06	DCF3(59)
D-1	Nd-144	1.510E-04	-1.000E+00	DCF3(60)
D-1	Ni-59	2.100E-07	2.100E-07	DCF3(61)
D-1	Ni-63	5.770E-07	5.770E-07	DCF3(62)
D-1	Np-237+D	4.444E-03	4.440E-03	DCF3(63)
D-1	Pa-231	1.060E-02	1.060E-02	DCF3(64)
D-1	Pb-210+D	5.376E-03	5.370E-03	DCF3(70)
D-1	Pb-210+D1	5.376E-03	5.370E-03	DCF3(71)
D-1	Pb-210+D2	5.370E-03	5.370E-03	DCF3(72)
D-1	Pm-147	1.050E-06	1.050E-06	DCF3(73)
D-1	Po-210	1.900E-03	1.900E-03	DCF3(74)
D-1	Pu-238	3.200E-03	3.200E-03	DCF3(75)
D-1	Pu-239	3.540E-03	3.540E-03	DCF3(91)
D-1	Pu-239+D	3.540E-03	3.540E-03	DCF3(97)
D-1	Pu-240	3.540E-03	3.540E-03	DCF3(103)
D-1	Pu-241	6.840E-05	6.840E-05	DCF3(105)
D-1	Pu-241+D	7.157E-05	6.840E-05	DCF3(106)
D-1	Ra-226+D	1.321E-03	1.320E-03	DCF3(107)
D-1	Ra-226+D1	1.321E-03	1.320E-03	DCF3(110)
D-1	Ra-226+D2	1.320E-03	1.320E-03	DCF3(113)
D-1	Ra-226+D3	1.320E-03	1.320E-03	DCF3(116)
D-1	Ra-226+D4	1.320E-03	1.320E-03	DCF3(119)
D-1	Ra-228+D	1.442E-03	1.440E-03	DCF3(122)
D-1	Sb-125	2.810E-06	2.810E-06	DCF3(123)

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Dose Conversion Factor (and Related) Parameter Summary (continued)

Dose Library: Zion ROC Screen BFM Plus FGR 11

Menu	Parameter	Current Value#	Base Case*	Parameter Name
D-1	Sm-147	1.850E-04	1.850E-04	DCF3(125)
D-1	Sm-148	1.580E-04	-1.000E+00	DCF3(126)
D-1	Sr-90+D	1.528E-04	1.420E-04	DCF3(127)
D-1	Tc-99	1.460E-06	1.460E-06	DCF3(128)
D-1	Te-125m	3.670E-06	3.670E-06	DCF3(129)
D-1	Th-228+D	8.086E-04	3.960E-04	DCF3(130)
D-1	Th-229+D	4.027E-03	3.530E-03	DCF3(131)
D-1	Th-230	5.480E-04	5.480E-04	DCF3(132)
D-1	Th-232	2.730E-03	2.730E-03	DCF3(147)
D-1	U-233	2.890E-04	2.890E-04	DCF3(148)
D-1	U-234	2.830E-04	2.830E-04	DCF3(149)
D-1	U-235+D	2.673E-04	2.660E-04	DCF3(164)
D-1	U-236	2.690E-04	2.690E-04	DCF3(170)
D-34	Food transfer factors:			
D-34	Ac-227+D , plant/soil concentration ratio, dimensionless	1.000E-03	2.500E-03	RTF(1,1)
D-34	Ac-227+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-05	2.000E-05	RTF(1,2)
D-34	Ac-227+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-06	2.000E-05	RTF(1,3)
D-34				
D-34	Ac-227+D1 , plant/soil concentration ratio, dimensionless	1.000E-03	2.500E-03	RTF(2,1)
D-34	Ac-227+D1 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-05	2.000E-05	RTF(2,2)
D-34	Ac-227+D1 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-06	2.000E-05	RTF(2,3)
D-34				
D-34	Ac-227+D2 , plant/soil concentration ratio, dimensionless	1.000E-03	2.500E-03	RTF(3,1)
D-34	Ac-227+D2 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-05	2.000E-05	RTF(3,2)
D-34	Ac-227+D2 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-06	2.000E-05	RTF(3,3)
D-34				
D-34	Ac-227+D3 , plant/soil concentration ratio, dimensionless	1.000E-03	2.500E-03	RTF(4,1)
D-34	Ac-227+D3 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-05	2.000E-05	RTF(4,2)
D-34	Ac-227+D3 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-06	2.000E-05	RTF(4,3)
D-34				
D-34	Ac-227+D4 , plant/soil concentration ratio, dimensionless	1.000E-03	2.500E-03	RTF(5,1)
D-34	Ac-227+D4 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-05	2.000E-05	RTF(5,2)
D-34	Ac-227+D4 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-06	2.000E-05	RTF(5,3)
D-34				
D-34	Ac-227+D5 , plant/soil concentration ratio, dimensionless	1.000E-03	2.500E-03	RTF(6,1)
D-34	Ac-227+D5 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-05	2.000E-05	RTF(6,2)
D-34	Ac-227+D5 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-06	2.000E-05	RTF(6,3)
D-34				
D-34	Ag-108m+D , plant/soil concentration ratio, dimensionless	7.400E-03	1.500E-01	RTF(7,1)
D-34	Ag-108m+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.200E-03	3.000E-03	RTF(7,2)
D-34	Ag-108m+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	9.500E-03	2.500E-02	RTF(7,3)
D-34				
D-34	Am-241 , plant/soil concentration ratio, dimensionless	1.800E-03	1.000E-03	RTF(8,1)
D-34	Am-241 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	5.700E-05	5.000E-05	RTF(8,2)
D-34	Am-241 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	3.200E-06	2.000E-06	RTF(8,3)
D-34				
D-34	Am-243+D , plant/soil concentration ratio, dimensionless	1.800E-03	1.000E-03	RTF(9,1)
D-34	Am-243+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	5.700E-05	5.000E-05	RTF(9,2)
D-34	Am-243+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	3.200E-06	2.000E-06	RTF(9,3)

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Dose Conversion Factor (and Related) Parameter Summary (continued)

Dose Library: Zion ROC Screen BFM Plus FGR 11

Menu	Parameter	Current Value#	Base Case*	Parameter Name
D-34	C-14 , plant/soil concentration ratio, dimensionless	1.280E+00	5.500E+00	RTF(21,1)
D-34	C-14 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	6.000E-02	3.100E-02	RTF(21,2)
D-34	C-14 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	3.200E-06	1.200E-02	RTF(21,3)
D-34				
D-34	Cm-243 , plant/soil concentration ratio, dimensionless	1.800E-03	1.000E-03	RTF(22,1)
D-34	Cm-243 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	4.000E-05	2.000E-05	RTF(22,2)
D-34	Cm-243 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	3.700E-06	2.000E-06	RTF(22,3)
D-34				
D-34	Cm-244 , plant/soil concentration ratio, dimensionless	1.800E-03	1.000E-03	RTF(46,1)
D-34	Cm-244 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	4.000E-05	2.000E-05	RTF(46,2)
D-34	Cm-244 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	3.700E-06	2.000E-06	RTF(46,3)
D-34				
D-34	Co-60 , plant/soil concentration ratio, dimensionless	8.000E-02	8.000E-02	RTF(49,1)
D-34	Co-60 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	5.800E-02	2.000E-02	RTF(49,2)
D-34	Co-60 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	3.200E-03	2.000E-03	RTF(49,3)
D-34				
D-34	Cs-134 , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(50,1)
D-34	Cs-134 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	6.500E-02	3.000E-02	RTF(50,2)
D-34	Cs-134 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.400E-02	8.000E-03	RTF(50,3)
D-34				
D-34	Cs-137+D , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(51,1)
D-34	Cs-137+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	6.500E-02	3.000E-02	RTF(51,2)
D-34	Cs-137+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.400E-02	8.000E-03	RTF(51,3)
D-34				
D-34	Eu-152 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(52,1)
D-34	Eu-152 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	4.000E-03	2.000E-03	RTF(52,2)
D-34	Eu-152 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-05	5.000E-05	RTF(52,3)
D-34				
D-34	Eu-154 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(54,1)
D-34	Eu-154 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	4.000E-03	2.000E-03	RTF(54,2)
D-34	Eu-154 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-05	5.000E-05	RTF(54,3)
D-34				
D-34	Eu-155 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(55,1)
D-34	Eu-155 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	4.000E-03	2.000E-03	RTF(55,2)
D-34	Eu-155 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-05	5.000E-05	RTF(55,3)
D-34				
D-34	Fe-55 , plant/soil concentration ratio, dimensionless	1.900E-03	1.000E-03	RTF(56,1)
D-34	Fe-55 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.900E-02	2.000E-02	RTF(56,2)
D-34	Fe-55 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	4.700E-04	3.000E-04	RTF(56,3)
D-34				
D-34	Gd-152 , plant/soil concentration ratio, dimensionless	2.000E-03	2.500E-03	RTF(57,1)
D-34	Gd-152 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-03	2.000E-03	RTF(57,2)
D-34	Gd-152 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	6.000E-05	2.000E-05	RTF(57,3)
D-34				
D-34	H-3 , plant/soil concentration ratio, dimensionless	4.800E+00	4.800E+00	RTF(58,1)
D-34	H-3 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.200E-02	1.200E-02	RTF(58,2)
D-34	H-3 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-02	1.000E-02	RTF(58,3)
D-34				

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Dose Conversion Factor (and Related) Parameter Summary (continued)

Dose Library: Zion ROC Screen BFM Plus FGR 11

Menu	Parameter	Current Value#	Base Case*	Parameter Name
D-34	Nb-94 , plant/soil concentration ratio, dimensionless	2.100E-02	1.000E-02	RTF(59,1)
D-34	Nb-94 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.800E-06	3.000E-07	RTF(59,2)
D-34	Nb-94 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	3.200E-06	2.000E-06	RTF(59,3)
D-34				
D-34	Nd-144 , plant/soil concentration ratio, dimensionless	2.000E-03	2.400E-03	RTF(60,1)
D-34	Nd-144 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-03	2.000E-03	RTF(60,2)
D-34	Nd-144 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	6.000E-05	2.000E-05	RTF(60,3)
D-34				
D-34	Ni-59 , plant/soil concentration ratio, dimensionless	5.000E-02	5.000E-02	RTF(61,1)
D-34	Ni-59 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	9.200E-03	5.000E-03	RTF(61,2)
D-34	Ni-59 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	3.200E-02	2.000E-02	RTF(61,3)
D-34				
D-34	Ni-63 , plant/soil concentration ratio, dimensionless	5.000E-02	5.000E-02	RTF(62,1)
D-34	Ni-63 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	9.200E-03	5.000E-03	RTF(62,2)
D-34	Ni-63 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	3.200E-02	2.000E-02	RTF(62,3)
D-34				
D-34	Np-237+D , plant/soil concentration ratio, dimensionless	2.000E-02	2.000E-02	RTF(63,1)
D-34	Np-237+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-03	1.000E-03	RTF(63,2)
D-34	Np-237+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-05	5.000E-06	RTF(63,3)
D-34				
D-34	Pa-231 , plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF(64,1)
D-34	Pa-231 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	5.000E-06	5.000E-03	RTF(64,2)
D-34	Pa-231 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-06	5.000E-06	RTF(64,3)
D-34				
D-34	Pb-210+D , plant/soil concentration ratio, dimensionless	4.000E-03	1.000E-02	RTF(70,1)
D-34	Pb-210+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	8.000E-04	8.000E-04	RTF(70,2)
D-34	Pb-210+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	3.000E-04	3.000E-04	RTF(70,3)
D-34				
D-34	Pb-210+D1 , plant/soil concentration ratio, dimensionless	4.000E-03	1.000E-02	RTF(71,1)
D-34	Pb-210+D1 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	8.000E-04	8.000E-04	RTF(71,2)
D-34	Pb-210+D1 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	3.000E-04	3.000E-04	RTF(71,3)
D-34				
D-34	Pb-210+D2 , plant/soil concentration ratio, dimensionless	4.000E-03	1.000E-02	RTF(72,1)
D-34	Pb-210+D2 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	8.000E-04	8.000E-04	RTF(72,2)
D-34	Pb-210+D2 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	3.000E-04	3.000E-04	RTF(72,3)
D-34				
D-34	Pm-147 , plant/soil concentration ratio, dimensionless	4.200E-03	2.500E-03	RTF(73,1)
D-34	Pm-147 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	4.000E-03	2.000E-03	RTF(73,2)
D-34	Pm-147 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.100E-04	2.000E-05	RTF(73,3)
D-34				
D-34	Po-210 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(74,1)
D-34	Po-210 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	5.000E-03	5.000E-03	RTF(74,2)
D-34	Po-210 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	4.000E-04	3.400E-04	RTF(74,3)
D-34				
D-34	Pu-238 , plant/soil concentration ratio, dimensionless	1.800E-03	1.000E-03	RTF(75,1)
D-34	Pu-238 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.100E-04	1.000E-04	RTF(75,2)
D-34	Pu-238 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.370E-06	1.000E-06	RTF(75,3)
D-34				

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Dose Conversion Factor (and Related) Parameter Summary (continued)

Dose Library: Zion ROC Screen BFM Plus FGR 11

Menu	Parameter	Current Value#	Base Case*	Parameter Name
D-34	Pu-239 , plant/soil concentration ratio, dimensionless	1.800E-03	1.000E-03	RTF(91,1)
D-34	Pu-239 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.100E-04	1.000E-04	RTF(91,2)
D-34	Pu-239 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.370E-06	1.000E-06	RTF(91,3)
D-34				
D-34	Pu-239+D , plant/soil concentration ratio, dimensionless	1.800E-03	1.000E-03	RTF(97,1)
D-34	Pu-239+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.100E-04	1.000E-04	RTF(97,2)
D-34	Pu-239+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.370E-06	1.000E-06	RTF(97,3)
D-34				
D-34	Pu-240 , plant/soil concentration ratio, dimensionless	1.800E-03	1.000E-03	RTF(103,1)
D-34	Pu-240 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.100E-04	1.000E-04	RTF(103,2)
D-34	Pu-240 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.370E-06	1.000E-06	RTF(103,3)
D-34				
D-34	Pu-241 , plant/soil concentration ratio, dimensionless	1.800E-03	1.000E-03	RTF(105,1)
D-34	Pu-241 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.100E-04	1.000E-04	RTF(105,2)
D-34	Pu-241 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.370E-06	1.000E-06	RTF(105,3)
D-34				
D-34	Pu-241+D , plant/soil concentration ratio, dimensionless	1.800E-03	1.000E-03	RTF(106,1)
D-34	Pu-241+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.100E-04	1.000E-04	RTF(106,2)
D-34	Pu-241+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.370E-06	1.000E-06	RTF(106,3)
D-34				
D-34	Ra-226+D , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(107,1)
D-34	Ra-226+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-03	1.000E-03	RTF(107,2)
D-34	Ra-226+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-03	1.000E-03	RTF(107,3)
D-34				
D-34	Ra-226+D1 , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(110,1)
D-34	Ra-226+D1 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-03	1.000E-03	RTF(110,2)
D-34	Ra-226+D1 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-03	1.000E-03	RTF(110,3)
D-34				
D-34	Ra-226+D2 , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(113,1)
D-34	Ra-226+D2 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-03	1.000E-03	RTF(113,2)
D-34	Ra-226+D2 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-03	1.000E-03	RTF(113,3)
D-34				
D-34	Ra-226+D3 , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(116,1)
D-34	Ra-226+D3 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-03	1.000E-03	RTF(116,2)
D-34	Ra-226+D3 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-03	1.000E-03	RTF(116,3)
D-34				
D-34	Ra-226+D4 , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(119,1)
D-34	Ra-226+D4 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-03	1.000E-03	RTF(119,2)
D-34	Ra-226+D4 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-03	1.000E-03	RTF(119,3)
D-34				
D-34	Ra-228+D , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(122,1)
D-34	Ra-228+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-03	1.000E-03	RTF(122,2)
D-34	Ra-228+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-03	1.000E-03	RTF(122,3)
D-34				
D-34	Sb-125 , plant/soil concentration ratio, dimensionless	1.900E-02	1.000E-02	RTF(123,1)
D-34	Sb-125 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.850E-03	1.000E-03	RTF(123,2)
D-34	Sb-125 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.100E-04	1.000E-04	RTF(123,3)
D-34				

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Dose Conversion Factor (and Related) Parameter Summary (continued)

Dose Library: Zion ROC Screen BFM Plus FGR 11

Menu	Parameter	Current Value#	Base Case*	Parameter Name
D-34	Sm-147 , plant/soil concentration ratio, dimensionless	2.000E-03	2.500E-03	RTF(125,1)
D-34	Sm-147 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-03	2.000E-03	RTF(125,2)
D-34	Sm-147 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	6.000E-05	2.000E-05	RTF(125,3)
D-34				
D-34	Sm-148 , plant/soil concentration ratio, dimensionless	2.000E-03	2.500E-03	RTF(126,1)
D-34	Sm-148 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-03	2.000E-03	RTF(126,2)
D-34	Sm-148 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	6.000E-05	2.000E-05	RTF(126,3)
D-34				
D-34	Sr-90+D , plant/soil concentration ratio, dimensionless	5.900E-01	3.000E-01	RTF(127,1)
D-34	Sr-90+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.300E-02	8.000E-03	RTF(127,2)
D-34	Sr-90+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.700E-03	2.000E-03	RTF(127,3)
D-34				
D-34	Tc-99 , plant/soil concentration ratio, dimensionless	9.110E+00	5.000E+00	RTF(128,1)
D-34	Tc-99 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.600E-04	1.000E-04	RTF(128,2)
D-34	Tc-99 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.600E-03	1.000E-03	RTF(128,3)
D-34				
D-34	Te-125m , plant/soil concentration ratio, dimensionless	1.000E-01	6.000E-01	RTF(129,1)
D-34	Te-125m , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	7.000E-03	7.000E-03	RTF(129,2)
D-34	Te-125m , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-04	5.000E-04	RTF(129,3)
D-34				
D-34	Th-228+D , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(130,1)
D-34	Th-228+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF(130,2)
D-34	Th-228+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-06	5.000E-06	RTF(130,3)
D-34				
D-34	Th-229+D , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(131,1)
D-34	Th-229+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF(131,2)
D-34	Th-229+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-06	5.000E-06	RTF(131,3)
D-34				
D-34	Th-230 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(132,1)
D-34	Th-230 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF(132,2)
D-34	Th-230 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-06	5.000E-06	RTF(132,3)
D-34				
D-34	Th-232 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(147,1)
D-34	Th-232 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF(147,2)
D-34	Th-232 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-06	5.000E-06	RTF(147,3)
D-34				
D-34	U-233 , plant/soil concentration ratio, dimensionless	2.000E-03	2.500E-03	RTF(148,1)
D-34	U-233 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	8.000E-04	3.400E-04	RTF(148,2)
D-34	U-233 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	4.000E-04	6.000E-04	RTF(148,3)
D-34				
D-34	U-234 , plant/soil concentration ratio, dimensionless	2.000E-03	2.500E-03	RTF(149,1)
D-34	U-234 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	8.000E-04	3.400E-04	RTF(149,2)
D-34	U-234 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	4.000E-04	6.000E-04	RTF(149,3)
D-34				
D-34	U-235+D , plant/soil concentration ratio, dimensionless	2.000E-03	2.500E-03	RTF(164,1)
D-34	U-235+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	8.000E-04	3.400E-04	RTF(164,2)
D-34	U-235+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	4.000E-04	6.000E-04	RTF(164,3)
D-34				

Summary : RESRAD Default

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Dose Conversion Factor (and Related) Parameter Summary (continued)

Dose Library: Zion ROC Screen BFM Plus FGR 11

Menu	Parameter	Current Value#	Base Case*	Parameter Name
D-34	U-236 , plant/soil concentration ratio, dimensionless	2.000E-03	2.500E-03	RTF(170,1)
D-34	U-236 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	8.000E-04	3.400E-04	RTF(170,2)
D-34	U-236 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	4.000E-04	6.000E-04	RTF(170,3)
D-5	Bioaccumulation factors, fresh water, L/kg:			
D-5	Ac-227+D , fish	1.500E+01	1.500E+01	BIOFAC(1,1)
D-5	Ac-227+D , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC(1,2)
D-5	Ac-227+D1 , fish	1.500E+01	1.500E+01	BIOFAC(2,1)
D-5	Ac-227+D1 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC(2,2)
D-5	Ac-227+D2 , fish	1.500E+01	1.500E+01	BIOFAC(3,1)
D-5	Ac-227+D2 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC(3,2)
D-5	Ac-227+D3 , fish	1.500E+01	1.500E+01	BIOFAC(4,1)
D-5	Ac-227+D3 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC(4,2)
D-5	Ac-227+D4 , fish	1.500E+01	1.500E+01	BIOFAC(5,1)
D-5	Ac-227+D4 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC(5,2)
D-5	Ac-227+D5 , fish	1.500E+01	1.500E+01	BIOFAC(6,1)
D-5	Ac-227+D5 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC(6,2)
D-5	Ag-108m+D , fish	5.000E+00	5.000E+00	BIOFAC(7,1)
D-5	Ag-108m+D , crustacea and mollusks	7.700E+02	7.700E+02	BIOFAC(7,2)
D-5	Am-241 , fish	3.000E+01	3.000E+01	BIOFAC(8,1)
D-5	Am-241 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC(8,2)
D-5	Am-243+D , fish	3.000E+01	3.000E+01	BIOFAC(9,1)
D-5	Am-243+D , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC(9,2)
D-5	C-14 , fish	5.000E+04	5.000E+04	BIOFAC(21,1)
D-5	C-14 , crustacea and mollusks	9.100E+03	9.100E+03	BIOFAC(21,2)
D-5	Cm-243 , fish	3.000E+01	3.000E+01	BIOFAC(22,1)
D-5	Cm-243 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC(22,2)
D-5	Cm-244 , fish	3.000E+01	3.000E+01	BIOFAC(46,1)
D-5	Cm-244 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC(46,2)
D-5	Co-60 , fish	3.000E+02	3.000E+02	BIOFAC(49,1)
D-5	Co-60 , crustacea and mollusks	2.000E+02	2.000E+02	BIOFAC(49,2)
D-5	Cs-134 , fish	2.000E+03	2.000E+03	BIOFAC(50,1)
D-5	Cs-134 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC(50,2)
D-5	Cs-137+D , fish	2.000E+03	2.000E+03	BIOFAC(51,1)
D-5	Cs-137+D , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC(51,2)

Summary : RESRAD Default

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Dose Conversion Factor (and Related) Parameter Summary (continued)

Dose Library: Zion ROC Screen BFM Plus FGR 11

Menu	Parameter	Current Value#	Base Case*	Parameter Name
D-5	Eu-152 , fish	5.000E+01	5.000E+01	BIOFAC(52,1)
D-5	Eu-152 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC(52,2)
D-5				
D-5	Eu-154 , fish	5.000E+01	5.000E+01	BIOFAC(54,1)
D-5	Eu-154 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC(54,2)
D-5				
D-5	Eu-155 , fish	5.000E+01	5.000E+01	BIOFAC(55,1)
D-5	Eu-155 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC(55,2)
D-5				
D-5	Fe-55 , fish	2.000E+02	2.000E+02	BIOFAC(56,1)
D-5	Fe-55 , crustacea and mollusks	3.200E+03	3.200E+03	BIOFAC(56,2)
D-5				
D-5	Gd-152 , fish	2.500E+01	2.500E+01	BIOFAC(57,1)
D-5	Gd-152 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC(57,2)
D-5				
D-5	H-3 , fish	1.000E+00	1.000E+00	BIOFAC(58,1)
D-5	H-3 , crustacea and mollusks	1.000E+00	1.000E+00	BIOFAC(58,2)
D-5				
D-5	Nb-94 , fish	3.000E+02	3.000E+02	BIOFAC(59,1)
D-5	Nb-94 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC(59,2)
D-5				
D-5	Nd-144 , fish	1.000E+02	1.000E+02	BIOFAC(60,1)
D-5	Nd-144 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC(60,2)
D-5				
D-5	Ni-59 , fish	1.000E+02	1.000E+02	BIOFAC(61,1)
D-5	Ni-59 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC(61,2)
D-5				
D-5	Ni-63 , fish	1.000E+02	1.000E+02	BIOFAC(62,1)
D-5	Ni-63 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC(62,2)
D-5				
D-5	Np-237+D , fish	3.000E+01	3.000E+01	BIOFAC(63,1)
D-5	Np-237+D , crustacea and mollusks	4.000E+02	4.000E+02	BIOFAC(63,2)
D-5				
D-5	Pa-231 , fish	1.000E+01	1.000E+01	BIOFAC(64,1)
D-5	Pa-231 , crustacea and mollusks	1.100E+02	1.100E+02	BIOFAC(64,2)
D-5				
D-5	Pb-210+D , fish	3.000E+02	3.000E+02	BIOFAC(70,1)
D-5	Pb-210+D , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC(70,2)
D-5				
D-5	Pb-210+D1 , fish	3.000E+02	3.000E+02	BIOFAC(71,1)
D-5	Pb-210+D1 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC(71,2)
D-5				
D-5	Pb-210+D2 , fish	3.000E+02	3.000E+02	BIOFAC(72,1)
D-5	Pb-210+D2 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC(72,2)
D-5				
D-5	Pm-147 , fish	3.000E+01	3.000E+01	BIOFAC(73,1)
D-5	Pm-147 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC(73,2)
D-5				
D-5	Po-210 , fish	1.000E+02	1.000E+02	BIOFAC(74,1)
D-5	Po-210 , crustacea and mollusks	2.000E+04	2.000E+04	BIOFAC(74,2)

Summary : RESRAD Default

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Dose Conversion Factor (and Related) Parameter Summary (continued)

Dose Library: Zion ROC Screen BFM Plus FGR 11

Menu	Parameter	Current Value#	Base Case*	Parameter Name
D-5	Pu-238 , fish	3.000E+01	3.000E+01	BIOFAC(75,1)
D-5	Pu-238 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC(75,2)
D-5				
D-5	Pu-239 , fish	3.000E+01	3.000E+01	BIOFAC(91,1)
D-5	Pu-239 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC(91,2)
D-5				
D-5	Pu-239+D , fish	3.000E+01	3.000E+01	BIOFAC(97,1)
D-5	Pu-239+D , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC(97,2)
D-5				
D-5	Pu-240 , fish	3.000E+01	3.000E+01	BIOFAC(103,1)
D-5	Pu-240 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC(103,2)
D-5				
D-5	Pu-241 , fish	3.000E+01	3.000E+01	BIOFAC(105,1)
D-5	Pu-241 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC(105,2)
D-5				
D-5	Pu-241+D , fish	3.000E+01	3.000E+01	BIOFAC(106,1)
D-5	Pu-241+D , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC(106,2)
D-5				
D-5	Ra-226+D , fish	5.000E+01	5.000E+01	BIOFAC(107,1)
D-5	Ra-226+D , crustacea and mollusks	2.500E+02	2.500E+02	BIOFAC(107,2)
D-5				
D-5	Ra-226+D1 , fish	5.000E+01	5.000E+01	BIOFAC(110,1)
D-5	Ra-226+D1 , crustacea and mollusks	2.500E+02	2.500E+02	BIOFAC(110,2)
D-5				
D-5	Ra-226+D2 , fish	5.000E+01	5.000E+01	BIOFAC(113,1)
D-5	Ra-226+D2 , crustacea and mollusks	2.500E+02	2.500E+02	BIOFAC(113,2)
D-5				
D-5	Ra-226+D3 , fish	5.000E+01	5.000E+01	BIOFAC(116,1)
D-5	Ra-226+D3 , crustacea and mollusks	2.500E+02	2.500E+02	BIOFAC(116,2)
D-5				
D-5	Ra-226+D4 , fish	5.000E+01	5.000E+01	BIOFAC(119,1)
D-5	Ra-226+D4 , crustacea and mollusks	2.500E+02	2.500E+02	BIOFAC(119,2)
D-5				
D-5	Ra-228+D , fish	5.000E+01	5.000E+01	BIOFAC(122,1)
D-5	Ra-228+D , crustacea and mollusks	2.500E+02	2.500E+02	BIOFAC(122,2)
D-5				
D-5	Sb-125 , fish	1.000E+02	1.000E+02	BIOFAC(123,1)
D-5	Sb-125 , crustacea and mollusks	1.000E+01	1.000E+01	BIOFAC(123,2)
D-5				
D-5	Sm-147 , fish	2.500E+01	2.500E+01	BIOFAC(125,1)
D-5	Sm-147 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC(125,2)
D-5				
D-5	Sm-148 , fish	2.500E+01	2.500E+01	BIOFAC(126,1)
D-5	Sm-148 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC(126,2)
D-5				
D-5	Sr-90+D , fish	6.000E+01	6.000E+01	BIOFAC(127,1)
D-5	Sr-90+D , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC(127,2)
D-5				
D-5	Tc-99 , fish	2.000E+01	2.000E+01	BIOFAC(128,1)
D-5	Tc-99 , crustacea and mollusks	5.000E+00	5.000E+00	BIOFAC(128,2)

Summary : RESRAD Default

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Dose Conversion Factor (and Related) Parameter Summary (continued)

Dose Library: Zion ROC Screen BFM Plus FGR 11

Menu	Parameter	Current Value#	Base Case*	Parameter Name
D-5	Te-125m , fish	4.000E+02	4.000E+02	BIOFAC(129,1)
D-5	Te-125m , crustacea and mollusks	7.500E+01	7.500E+01	BIOFAC(129,2)
D-5				
D-5	Th-228+D , fish	1.000E+02	1.000E+02	BIOFAC(130,1)
D-5	Th-228+D , crustacea and mollusks	5.000E+02	5.000E+02	BIOFAC(130,2)
D-5				
D-5	Th-229+D , fish	1.000E+02	1.000E+02	BIOFAC(131,1)
D-5	Th-229+D , crustacea and mollusks	5.000E+02	5.000E+02	BIOFAC(131,2)
D-5				
D-5	Th-230 , fish	1.000E+02	1.000E+02	BIOFAC(132,1)
D-5	Th-230 , crustacea and mollusks	5.000E+02	5.000E+02	BIOFAC(132,2)
D-5				
D-5	Th-232 , fish	1.000E+02	1.000E+02	BIOFAC(147,1)
D-5	Th-232 , crustacea and mollusks	5.000E+02	5.000E+02	BIOFAC(147,2)
D-5				
D-5	U-233 , fish	1.000E+01	1.000E+01	BIOFAC(148,1)
D-5	U-233 , crustacea and mollusks	6.000E+01	6.000E+01	BIOFAC(148,2)
D-5				
D-5	U-234 , fish	1.000E+01	1.000E+01	BIOFAC(149,1)
D-5	U-234 , crustacea and mollusks	6.000E+01	6.000E+01	BIOFAC(149,2)
D-5				
D-5	U-235+D , fish	1.000E+01	1.000E+01	BIOFAC(164,1)
D-5	U-235+D , crustacea and mollusks	6.000E+01	6.000E+01	BIOFAC(164,2)
D-5				
D-5	U-236 , fish	1.000E+01	1.000E+01	BIOFAC(170,1)
D-5	U-236 , crustacea and mollusks	6.000E+01	6.000E+01	BIOFAC(170,2)

#For DCF1(xxx) only, factors are for infinite depth & area. See ETEG table in Ground Pathway of Detailed Report.

*Base Case means Default.Lib w/o Associate Nuclide contributions.

Summary : RESRAD Default

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Site-Specific Parameter Summary

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R011	Area of contaminated zone (m**2)	6.450E+04	1.000E+04	---	AREA
R011	Thickness of contaminated zone (m)	1.120E+01	2.000E+00	---	THICK0
R011	Fraction of contamination that is submerged	1.000E+00	0.000E+00	---	SUBMFRACT
R011	Length parallel to aquifer flow (m)	2.870E+02	1.000E+02	---	LCZPAQ
R011	Basic radiation dose limit (mrem/yr)	2.500E+01	3.000E+01	---	BRDL
R011	Time since placement of material (yr)	1.000E+00	0.000E+00	---	TI
R011	Times for calculations (yr)	1.000E+00	1.000E+00	---	T (2)
R011	Times for calculations (yr)	3.000E+00	3.000E+00	---	T (3)
R011	Times for calculations (yr)	1.000E+01	1.000E+01	---	T (4)
R011	Times for calculations (yr)	5.280E+01	3.000E+01	---	T (5)
R011	Times for calculations (yr)	1.000E+02	1.000E+02	---	T (6)
R011	Times for calculations (yr)	3.000E+02	3.000E+02	---	T (7)
R011	Times for calculations (yr)	1.000E+03	1.000E+03	---	T (8)
R011	Times for calculations (yr)	not used	0.000E+00	---	T (9)
R011	Times for calculations (yr)	not used	0.000E+00	---	T(10)
R012	Initial principal radionuclide (pCi/g): Ag-108m	1.000E+00	0.000E+00	---	S1(7)
R012	Initial principal radionuclide (pCi/g): Am-241	1.000E+00	0.000E+00	---	S1(8)
R012	Initial principal radionuclide (pCi/g): Am-243	1.000E+00	0.000E+00	---	S1(9)
R012	Initial principal radionuclide (pCi/g): C-14	1.000E+00	0.000E+00	---	S1(21)
R012	Initial principal radionuclide (pCi/g): Cm-243	1.000E+00	0.000E+00	---	S1(22)
R012	Initial principal radionuclide (pCi/g): Cm-244	1.000E+00	0.000E+00	---	S1(46)
R012	Initial principal radionuclide (pCi/g): Co-60	1.000E+00	0.000E+00	---	S1(49)
R012	Initial principal radionuclide (pCi/g): Cs-134	1.000E+00	0.000E+00	---	S1(50)
R012	Initial principal radionuclide (pCi/g): Cs-137	1.000E+00	0.000E+00	---	S1(51)
R012	Initial principal radionuclide (pCi/g): Eu-152	1.000E+00	0.000E+00	---	S1(52)
R012	Initial principal radionuclide (pCi/g): Eu-154	1.000E+00	0.000E+00	---	S1(54)
R012	Initial principal radionuclide (pCi/g): Eu-155	1.000E+00	0.000E+00	---	S1(55)
R012	Initial principal radionuclide (pCi/g): Fe-55	1.000E+00	0.000E+00	---	S1(56)
R012	Initial principal radionuclide (pCi/g): H-3	1.000E+00	0.000E+00	---	S1(58)
R012	Initial principal radionuclide (pCi/g): Nb-94	1.000E+00	0.000E+00	---	S1(59)
R012	Initial principal radionuclide (pCi/g): Ni-59	1.000E+00	0.000E+00	---	S1(61)
R012	Initial principal radionuclide (pCi/g): Ni-63	1.000E+00	0.000E+00	---	S1(62)
R012	Initial principal radionuclide (pCi/g): Np-237	1.000E+00	0.000E+00	---	S1(63)
R012	Initial principal radionuclide (pCi/g): Pm-147	1.000E+00	0.000E+00	---	S1(73)
R012	Initial principal radionuclide (pCi/g): Pu-238	1.000E+00	0.000E+00	---	S1(75)
R012	Initial principal radionuclide (pCi/g): Pu-239	1.000E+00	0.000E+00	---	S1(91)
R012	Initial principal radionuclide (pCi/g): Pu-240	1.000E+00	0.000E+00	---	S1(103)
R012	Initial principal radionuclide (pCi/g): Pu-241	1.000E+00	0.000E+00	---	S1(105)
R012	Initial principal radionuclide (pCi/g): Sb-125	1.000E+00	0.000E+00	---	S1(123)
R012	Initial principal radionuclide (pCi/g): Sr-90	1.000E+00	0.000E+00	---	S1(127)
R012	Initial principal radionuclide (pCi/g): Tc-99	1.000E+00	0.000E+00	---	S1(128)
R012	Concentration in groundwater (pCi/L): Ag-108m	not used	0.000E+00	---	W1(7)
R012	Concentration in groundwater (pCi/L): Am-241	not used	0.000E+00	---	W1(8)
R012	Concentration in groundwater (pCi/L): Am-243	not used	0.000E+00	---	W1(9)
R012	Concentration in groundwater (pCi/L): C-14	not used	0.000E+00	---	W1(21)
R012	Concentration in groundwater (pCi/L): Cm-243	not used	0.000E+00	---	W1(22)
R012	Concentration in groundwater (pCi/L): Cm-244	not used	0.000E+00	---	W1(46)
R012	Concentration in groundwater (pCi/L): Co-60	not used	0.000E+00	---	W1(49)
R012	Concentration in groundwater (pCi/L): Cs-134	not used	0.000E+00	---	W1(50)

Summary : RESRAD Default

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Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R012	Concentration in groundwater (pCi/L): Cs-137	not used	0.000E+00	---	W1 (51)
R012	Concentration in groundwater (pCi/L): Eu-152	not used	0.000E+00	---	W1 (52)
R012	Concentration in groundwater (pCi/L): Eu-154	not used	0.000E+00	---	W1 (54)
R012	Concentration in groundwater (pCi/L): Eu-155	not used	0.000E+00	---	W1 (55)
R012	Concentration in groundwater (pCi/L): Fe-55	not used	0.000E+00	---	W1 (56)
R012	Concentration in groundwater (pCi/L): H-3	not used	0.000E+00	---	W1 (58)
R012	Concentration in groundwater (pCi/L): Nb-94	not used	0.000E+00	---	W1 (59)
R012	Concentration in groundwater (pCi/L): Ni-59	not used	0.000E+00	---	W1 (61)
R012	Concentration in groundwater (pCi/L): Ni-63	not used	0.000E+00	---	W1 (62)
R012	Concentration in groundwater (pCi/L): Np-237	not used	0.000E+00	---	W1 (63)
R012	Concentration in groundwater (pCi/L): Pm-147	not used	0.000E+00	---	W1 (73)
R012	Concentration in groundwater (pCi/L): Pu-238	not used	0.000E+00	---	W1 (75)
R012	Concentration in groundwater (pCi/L): Pu-239	not used	0.000E+00	---	W1 (91)
R012	Concentration in groundwater (pCi/L): Pu-240	not used	0.000E+00	---	W1 (**)
R012	Concentration in groundwater (pCi/L): Pu-241	not used	0.000E+00	---	W1 (**)
R012	Concentration in groundwater (pCi/L): Sb-125	not used	0.000E+00	---	W1 (**)
R012	Concentration in groundwater (pCi/L): Sr-90	not used	0.000E+00	---	W1 (**)
R012	Concentration in groundwater (pCi/L): Tc-99	not used	0.000E+00	---	W1 (**)
R013	Cover depth (m)	3.600E+00	0.000E+00	---	COVER0
R013	Density of cover material (g/cm**3)	1.800E+00	1.500E+00	---	DENSCV
R013	Cover depth erosion rate (m/yr)	1.500E-03	1.000E-03	---	VCV
R013	Density of contaminated zone (g/cm**3)	1.800E+00	1.500E+00	---	DENSCZ
R013	Contaminated zone erosion rate (m/yr)	1.500E-03	1.000E-03	---	VCZ
R013	Contaminated zone total porosity	3.700E-01	4.000E-01	---	TPCZ
R013	Contaminated zone field capacity	6.600E-02	2.000E-01	---	FCCZ
R013	Contaminated zone hydraulic conductivity (m/yr)	2.880E+03	1.000E+01	---	HCCZ
R013	Contaminated zone b parameter	2.890E+00	5.300E+00	---	BCZ
R013	Average annual wind speed (m/sec)	4.200E+00	2.000E+00	---	WIND
R013	Humidity in air (g/m**3)	7.200E+00	8.000E+00	---	HUMID
R013	Evapotranspiration coefficient	6.250E-01	5.000E-01	---	EVAPTR
R013	Precipitation (m/yr)	8.300E-01	1.000E+00	---	PRECIP
R013	Irrigation (m/yr)	1.900E-01	2.000E-01	---	RI
R013	Irrigation mode	overhead	overhead	---	IDITCH
R013	Runoff coefficient	2.000E-01	2.000E-01	---	RUNOFF
R013	Watershed area for nearby stream or pond (m**2)	1.000E+06	1.000E+06	---	WAREA
R013	Accuracy for water/soil computations	1.000E-03	1.000E-03	Romberg failures occurred	EPS
R014	Density of saturated zone (g/cm**3)	1.800E+00	1.500E+00	---	DENSAQ
R014	Saturated zone total porosity	3.500E-01	4.000E-01	---	TPSZ
R014	Saturated zone effective porosity	2.900E-01	2.000E-01	---	EPSZ
R014	Saturated zone field capacity	6.600E-02	2.000E-01	---	FCSZ
R014	Saturated zone hydraulic conductivity (m/yr)	1.695E+03	1.000E+02	---	HCSZ
R014	Saturated zone hydraulic gradient	1.800E-03	2.000E-02	---	HGWT
R014	Saturated zone b parameter	not used	5.300E+00	---	BSZ
R014	Water table drop rate (m/yr)	0.000E+00	1.000E-03	---	VWT
R014	Well pump intake depth (m below water table)	5.600E+00	1.000E+01	---	DWIBWT
R014	Model: Nondispersion (ND) or Mass-Balance (MB)	MB	ND	---	MODEL
R014	Well pumping rate (m**3/yr)	2.250E+03	2.500E+02	---	UW

Summary : RESRAD Default

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Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R015	Number of unsaturated zone strata	0	1	---	NS
R016	Distribution coefficients for Ag-108m				
R016	Contaminated zone (cm**3/g)	2.700E+01	0.000E+00	---	DCNUCC (7)
R016	Saturated zone (cm**3/g)	2.700E+01	0.000E+00	---	DCNUCS (7)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	8.010E-04	ALEACH (7)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (7)
R016	Distribution coefficients for Am-241				
R016	Contaminated zone (cm**3/g)	1.770E+02	2.000E+01	---	DCNUCC (8)
R016	Saturated zone (cm**3/g)	1.770E+02	2.000E+01	---	DCNUCS (8)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.230E-04	ALEACH (8)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (8)
R016	Distribution coefficients for Am-243				
R016	Contaminated zone (cm**3/g)	1.770E+02	2.000E+01	---	DCNUCC (9)
R016	Saturated zone (cm**3/g)	1.770E+02	2.000E+01	---	DCNUCS (9)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.230E-04	ALEACH (9)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (9)
R016	Distribution coefficients for C-14				
R016	Contaminated zone (cm**3/g)	1.200E+00	0.000E+00	---	DCNUCC (21)
R016	Saturated zone (cm**3/g)	1.200E+00	0.000E+00	---	DCNUCS (21)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.550E-02	ALEACH (21)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (21)
R016	Distribution coefficients for Cm-243				
R016	Contaminated zone (cm**3/g)	8.910E+02	-1.000E+00	---	DCNUCC (22)
R016	Saturated zone (cm**3/g)	8.910E+02	-1.000E+00	---	DCNUCS (22)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	2.445E-05	ALEACH (22)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (22)
R016	Distribution coefficients for Cm-244				
R016	Contaminated zone (cm**3/g)	8.910E+02	-1.000E+00	---	DCNUCC (46)
R016	Saturated zone (cm**3/g)	8.910E+02	-1.000E+00	---	DCNUCS (46)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	2.445E-05	ALEACH (46)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (46)
R016	Distribution coefficients for Co-60				
R016	Contaminated zone (cm**3/g)	2.230E+02	1.000E+03	---	DCNUCC (49)
R016	Saturated zone (cm**3/g)	2.230E+02	1.000E+03	---	DCNUCS (49)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	9.763E-05	ALEACH (49)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (49)
R016	Distribution coefficients for Cs-134				
R016	Contaminated zone (cm**3/g)	4.500E+01	4.600E+03	---	DCNUCC (50)
R016	Saturated zone (cm**3/g)	4.500E+01	4.600E+03	---	DCNUCS (50)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	4.821E-04	ALEACH (50)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (50)

Summary : RESRAD Default

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Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R016	Distribution coefficients for Cs-137				
R016	Contaminated zone (cm**3/g)	4.500E+01	4.600E+03	---	DCNUCC (51)
R016	Saturated zone (cm**3/g)	4.500E+01	4.600E+03	---	DCNUCS (51)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	4.821E-04	ALEACH (51)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (51)
R016	Distribution coefficients for Eu-152				
R016	Contaminated zone (cm**3/g)	9.500E+01	-1.000E+00	---	DCNUCC (52)
R016	Saturated zone (cm**3/g)	9.500E+01	-1.000E+00	---	DCNUCS (52)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	2.289E-04	ALEACH (52)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (52)
R016	Distribution coefficients for Eu-154				
R016	Contaminated zone (cm**3/g)	9.500E+01	-1.000E+00	---	DCNUCC (54)
R016	Saturated zone (cm**3/g)	9.500E+01	-1.000E+00	---	DCNUCS (54)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	2.289E-04	ALEACH (54)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (54)
R016	Distribution coefficients for Eu-155				
R016	Contaminated zone (cm**3/g)	9.500E+01	-1.000E+00	---	DCNUCC (55)
R016	Saturated zone (cm**3/g)	9.500E+01	-1.000E+00	---	DCNUCS (55)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	2.289E-04	ALEACH (55)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (55)
R016	Distribution coefficients for Fe-55				
R016	Contaminated zone (cm**3/g)	2.857E+03	1.000E+03	---	DCNUCC (56)
R016	Saturated zone (cm**3/g)	2.857E+03	1.000E+03	---	DCNUCS (56)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	7.627E-06	ALEACH (56)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (56)
R016	Distribution coefficients for H-3				
R016	Contaminated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCC (58)
R016	Saturated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCS (58)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.060E-01	ALEACH (58)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (58)
R016	Distribution coefficients for Nb-94				
R016	Contaminated zone (cm**3/g)	4.500E+01	0.000E+00	---	DCNUCC (59)
R016	Saturated zone (cm**3/g)	4.500E+01	0.000E+00	---	DCNUCS (59)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	4.821E-04	ALEACH (59)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (59)
R016	Distribution coefficients for Ni-59				
R016	Contaminated zone (cm**3/g)	6.200E+01	1.000E+03	---	DCNUCC (61)
R016	Saturated zone (cm**3/g)	6.200E+01	1.000E+03	---	DCNUCS (61)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	3.503E-04	ALEACH (61)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (61)

Summary : RESRAD Default

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Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R016	Distribution coefficients for Ni-63				
R016	Contaminated zone (cm**3/g)	6.200E+01	1.000E+03	---	DCNUCC (62)
R016	Saturated zone (cm**3/g)	6.200E+01	1.000E+03	---	DCNUCS (62)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	3.503E-04	ALEACH (62)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (62)
R016	Distribution coefficients for Np-237				
R016	Contaminated zone (cm**3/g)	1.000E+00	-1.000E+00	---	DCNUCC (63)
R016	Saturated zone (cm**3/g)	1.000E+00	-1.000E+00	---	DCNUCS (63)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.808E-02	ALEACH (63)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (63)
R016	Distribution coefficients for Pm-147				
R016	Contaminated zone (cm**3/g)	9.500E+01	-1.000E+00	---	DCNUCC (73)
R016	Saturated zone (cm**3/g)	9.500E+01	-1.000E+00	---	DCNUCS (73)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	2.289E-04	ALEACH (73)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (73)
R016	Distribution coefficients for Pu-238				
R016	Contaminated zone (cm**3/g)	1.740E+02	2.000E+03	---	DCNUCC (75)
R016	Saturated zone (cm**3/g)	1.740E+02	2.000E+03	---	DCNUCS (75)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.251E-04	ALEACH (75)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (75)
R016	Distribution coefficients for Pu-239				
R016	Contaminated zone (cm**3/g)	1.740E+02	2.000E+03	---	DCNUCC (91)
R016	Saturated zone (cm**3/g)	1.740E+02	2.000E+03	---	DCNUCS (91)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.251E-04	ALEACH (91)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (91)
R016	Distribution coefficients for Pu-240				
R016	Contaminated zone (cm**3/g)	1.740E+02	2.000E+03	---	DCNUCC (**)
R016	Saturated zone (cm**3/g)	1.740E+02	2.000E+03	---	DCNUCS (**)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.251E-04	ALEACH (**)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (**)
R016	Distribution coefficients for Pu-241				
R016	Contaminated zone (cm**3/g)	1.740E+02	2.000E+03	---	DCNUCC (**)
R016	Saturated zone (cm**3/g)	1.740E+02	2.000E+03	---	DCNUCS (**)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.251E-04	ALEACH (**)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (**)
R016	Distribution coefficients for Sb-125				
R016	Contaminated zone (cm**3/g)	1.700E+01	0.000E+00	---	DCNUCC (**)
R016	Saturated zone (cm**3/g)	1.700E+01	0.000E+00	---	DCNUCS (**)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.267E-03	ALEACH (**)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (**)

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Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R016	Distribution coefficients for Sr-90				
R016	Contaminated zone (cm**3/g)	2.300E+00	3.000E+01	---	DCNUCC (**)
R016	Saturated zone (cm**3/g)	2.300E+00	3.000E+01	---	DCNUCS (**)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	8.697E-03	ALEACH (**)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (**)
R016	Distribution coefficients for Tc-99				
R016	Contaminated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCC (**)
R016	Saturated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCS (**)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.060E-01	ALEACH (**)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (**)
R016	Distribution coefficients for daughter Ac-227				
R016	Contaminated zone (cm**3/g)	8.250E+02	2.000E+01	---	DCNUCC (1)
R016	Saturated zone (cm**3/g)	8.250E+02	2.000E+01	---	DCNUCS (1)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	2.641E-05	ALEACH (1)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (1)
R016	Distribution coefficients for daughter Gd-152				
R016	Contaminated zone (cm**3/g)	8.250E+02	-1.000E+00	---	DCNUCC (57)
R016	Saturated zone (cm**3/g)	8.250E+02	-1.000E+00	---	DCNUCS (57)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	2.641E-05	ALEACH (57)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (57)
R016	Distribution coefficients for daughter Nd-144				
R016	Contaminated zone (cm**3/g)	1.580E+02	1.580E+02	---	DCNUCC (60)
R016	Saturated zone (cm**3/g)	1.580E+02	1.580E+02	---	DCNUCS (60)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.377E-04	ALEACH (60)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (60)
R016	Distribution coefficients for daughter Pa-231				
R016	Contaminated zone (cm**3/g)	3.800E+02	5.000E+01	---	DCNUCC (64)
R016	Saturated zone (cm**3/g)	3.800E+02	5.000E+01	---	DCNUCS (64)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	5.731E-05	ALEACH (64)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (64)
R016	Distribution coefficients for daughter Pb-210				
R016	Contaminated zone (cm**3/g)	2.392E+03	1.000E+02	---	DCNUCC (70)
R016	Saturated zone (cm**3/g)	2.392E+03	1.000E+02	---	DCNUCS (70)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	9.109E-06	ALEACH (70)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (70)
R016	Distribution coefficients for daughter Po-210				
R016	Contaminated zone (cm**3/g)	1.810E+02	1.000E+01	---	DCNUCC (74)
R016	Saturated zone (cm**3/g)	1.810E+02	1.000E+01	---	DCNUCS (74)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.203E-04	ALEACH (74)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (74)

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Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R016	Distribution coefficients for daughter Ra-226				
R016	Contaminated zone (cm**3/g)	3.533E+03	7.000E+01	---	DCNUCC (**)
R016	Saturated zone (cm**3/g)	3.533E+03	7.000E+01	---	DCNUCS (**)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	6.168E-06	ALEACH (**)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (**)
R016	Distribution coefficients for daughter Ra-228				
R016	Contaminated zone (cm**3/g)	3.533E+03	7.000E+01	---	DCNUCC (**)
R016	Saturated zone (cm**3/g)	3.533E+03	7.000E+01	---	DCNUCS (**)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	6.168E-06	ALEACH (**)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (**)
R016	Distribution coefficients for daughter Sm-147				
R016	Contaminated zone (cm**3/g)	8.250E+02	-1.000E+00	---	DCNUCC (**)
R016	Saturated zone (cm**3/g)	8.250E+02	-1.000E+00	---	DCNUCS (**)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	2.641E-05	ALEACH (**)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (**)
R016	Distribution coefficients for daughter Sm-148				
R016	Contaminated zone (cm**3/g)	8.250E+02	-1.000E+00	---	DCNUCC (**)
R016	Saturated zone (cm**3/g)	8.250E+02	-1.000E+00	---	DCNUCS (**)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	2.641E-05	ALEACH (**)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (**)
R016	Distribution coefficients for daughter Te-125m				
R016	Contaminated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCC (**)
R016	Saturated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCS (**)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.060E-01	ALEACH (**)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (**)
R016	Distribution coefficients for daughter Th-228				
R016	Contaminated zone (cm**3/g)	5.884E+03	6.000E+04	---	DCNUCC (**)
R016	Saturated zone (cm**3/g)	5.884E+03	6.000E+04	---	DCNUCS (**)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	3.703E-06	ALEACH (**)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (**)
R016	Distribution coefficients for daughter Th-229				
R016	Contaminated zone (cm**3/g)	5.884E+03	6.000E+04	---	DCNUCC (**)
R016	Saturated zone (cm**3/g)	5.884E+03	6.000E+04	---	DCNUCS (**)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	3.703E-06	ALEACH (**)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (**)
R016	Distribution coefficients for daughter Th-230				
R016	Contaminated zone (cm**3/g)	5.884E+03	6.000E+04	---	DCNUCC (**)
R016	Saturated zone (cm**3/g)	5.884E+03	6.000E+04	---	DCNUCS (**)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	3.703E-06	ALEACH (**)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (**)

Summary : RESRAD Default

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Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R016	Distribution coefficients for daughter Th-232				
R016	Contaminated zone (cm**3/g)	5.884E+03	6.000E+04	---	DCNUCC(**)
R016	Saturated zone (cm**3/g)	5.884E+03	6.000E+04	---	DCNUCS(**)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	3.703E-06	ALEACH(**)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(**)
R016	Distribution coefficients for daughter U-233				
R016	Contaminated zone (cm**3/g)	1.260E+02	5.000E+01	---	DCNUCC(**)
R016	Saturated zone (cm**3/g)	1.260E+02	5.000E+01	---	DCNUCS(**)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.727E-04	ALEACH(**)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(**)
R016	Distribution coefficients for daughter U-234				
R016	Contaminated zone (cm**3/g)	1.260E+02	5.000E+01	---	DCNUCC(**)
R016	Saturated zone (cm**3/g)	1.260E+02	5.000E+01	---	DCNUCS(**)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.727E-04	ALEACH(**)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(**)
R016	Distribution coefficients for daughter U-235				
R016	Contaminated zone (cm**3/g)	1.260E+02	5.000E+01	---	DCNUCC(**)
R016	Saturated zone (cm**3/g)	1.260E+02	5.000E+01	---	DCNUCS(**)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.727E-04	ALEACH(**)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(**)
R016	Distribution coefficients for daughter U-236				
R016	Contaminated zone (cm**3/g)	1.260E+02	5.000E+01	---	DCNUCC(**)
R016	Saturated zone (cm**3/g)	1.260E+02	5.000E+01	---	DCNUCS(**)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.727E-04	ALEACH(**)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(**)
R017	Inhalation rate (m**3/yr)	8.400E+03	8.400E+03	---	INHALR
R017	Mass loading for inhalation (g/m**3)	2.350E-05	1.000E-04	---	MLINH
R017	Exposure duration	3.000E+01	3.000E+01	---	ED
R017	Shielding factor, inhalation	5.500E-01	4.000E-01	---	SHF3
R017	Shielding factor, external gamma	2.700E-01	7.000E-01	---	SHF1
R017	Fraction of time spent indoors	6.490E-01	5.000E-01	---	FIND
R017	Fraction of time spent outdoors (on site)	1.240E-01	2.500E-01	---	FOTD
R017	Shape factor flag, external gamma	1.000E+00	1.000E+00	>0 shows circular AREA.	FS

Summary : RESRAD Default

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Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R017	Radii of shape factor array (used if FS = -1):				
R017	Outer annular radius (m), ring 1:	not used	5.000E+01	---	RAD_SHAPE (1)
R017	Outer annular radius (m), ring 2:	not used	7.071E+01	---	RAD_SHAPE (2)
R017	Outer annular radius (m), ring 3:	not used	0.000E+00	---	RAD_SHAPE (3)
R017	Outer annular radius (m), ring 4:	not used	0.000E+00	---	RAD_SHAPE (4)
R017	Outer annular radius (m), ring 5:	not used	0.000E+00	---	RAD_SHAPE (5)
R017	Outer annular radius (m), ring 6:	not used	0.000E+00	---	RAD_SHAPE (6)
R017	Outer annular radius (m), ring 7:	not used	0.000E+00	---	RAD_SHAPE (7)
R017	Outer annular radius (m), ring 8:	not used	0.000E+00	---	RAD_SHAPE (8)
R017	Outer annular radius (m), ring 9:	not used	0.000E+00	---	RAD_SHAPE (9)
R017	Outer annular radius (m), ring 10:	not used	0.000E+00	---	RAD_SHAPE(10)
R017	Outer annular radius (m), ring 11:	not used	0.000E+00	---	RAD_SHAPE(11)
R017	Outer annular radius (m), ring 12:	not used	0.000E+00	---	RAD_SHAPE(12)
R017	Fractions of annular areas within AREA:				
R017	Ring 1	not used	1.000E+00	---	FRACA (1)
R017	Ring 2	not used	2.732E-01	---	FRACA (2)
R017	Ring 3	not used	0.000E+00	---	FRACA (3)
R017	Ring 4	not used	0.000E+00	---	FRACA (4)
R017	Ring 5	not used	0.000E+00	---	FRACA (5)
R017	Ring 6	not used	0.000E+00	---	FRACA (6)
R017	Ring 7	not used	0.000E+00	---	FRACA (7)
R017	Ring 8	not used	0.000E+00	---	FRACA (8)
R017	Ring 9	not used	0.000E+00	---	FRACA (9)
R017	Ring 10	not used	0.000E+00	---	FRACA(10)
R017	Ring 11	not used	0.000E+00	---	FRACA(11)
R017	Ring 12	not used	0.000E+00	---	FRACA(12)
R018	Fruits, vegetables and grain consumption (kg/yr)	1.120E+02	1.600E+02	---	DIET(1)
R018	Leafy vegetable consumption (kg/yr)	2.140E+01	1.400E+01	---	DIET(2)
R018	Milk consumption (L/yr)	2.330E+02	9.200E+01	---	DIET(3)
R018	Meat and poultry consumption (kg/yr)	6.510E+01	6.300E+01	---	DIET(4)
R018	Fish consumption (kg/yr)	not used	5.400E+00	---	DIET(5)
R018	Other seafood consumption (kg/yr)	not used	9.000E-01	---	DIET(6)
R018	Soil ingestion rate (g/yr)	1.830E+01	3.650E+01	---	SOIL
R018	Drinking water intake (L/yr)	4.780E+02	5.100E+02	---	DWI
R018	Contamination fraction of drinking water	1.000E+00	1.000E+00	---	FDW
R018	Contamination fraction of household water	not used	1.000E+00	---	FHHW
R018	Contamination fraction of livestock water	1.000E+00	1.000E+00	---	FLW
R018	Contamination fraction of irrigation water	1.000E+00	1.000E+00	---	FIRW
R018	Contamination fraction of aquatic food	not used	5.000E-01	---	FR9
R018	Contamination fraction of plant food	1.000E+00	-1	---	FPLANT
R018	Contamination fraction of meat	1.000E+00	-1	---	FMEAT
R018	Contamination fraction of milk	1.000E+00	-1	---	FMILK
R019	Livestock fodder intake for meat (kg/day)	2.830E+01	6.800E+01	---	LFI5
R019	Livestock fodder intake for milk (kg/day)	6.520E+01	5.500E+01	---	LFI6
R019	Livestock water intake for meat (L/day)	5.060E+01	5.000E+01	---	LWI5
R019	Livestock water intake for milk (L/day)	6.000E+01	1.600E+02	---	LWI6
R019	Livestock soil intake (kg/day)	5.000E-01	5.000E-01	---	LSI

Summary : RESRAD Default

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Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R019	Mass loading for foliar deposition (g/m**3)	4.000E-04	1.000E-04	---	MLFD
R019	Depth of soil mixing layer (m)	2.300E-01	1.500E-01	---	DM
R019	Depth of roots (m)	3.100E+00	9.000E-01	---	DROOT
R019	Drinking water fraction from ground water	1.000E+00	1.000E+00	---	FGWDW
R019	Household water fraction from ground water	not used	1.000E+00	---	FGWHH
R019	Livestock water fraction from ground water	1.000E+00	1.000E+00	---	FGWLW
R019	Irrigation fraction from ground water	1.000E+00	1.000E+00	---	FGWIR
R19B	Wet weight crop yield for Non-Leafy (kg/m**2)	1.260E+00	7.000E-01	---	YV(1)
R19B	Wet weight crop yield for Leafy (kg/m**2)	2.890E+00	1.500E+00	---	YV(2)
R19B	Wet weight crop yield for Fodder (kg/m**2)	1.910E+00	1.100E+00	---	YV(3)
R19B	Growing Season for Non-Leafy (years)	2.500E-01	1.700E-01	---	TE(1)
R19B	Growing Season for Leafy (years)	1.200E-01	2.500E-01	---	TE(2)
R19B	Growing Season for Fodder (years)	8.200E-02	8.000E-02	---	TE(3)
R19B	Translocation Factor for Non-Leafy	1.000E-01	1.000E-01	---	TIV(1)
R19B	Translocation Factor for Leafy	1.000E+00	1.000E+00	---	TIV(2)
R19B	Translocation Factor for Fodder	1.000E+00	1.000E+00	---	TIV(3)
R19B	Dry Foliar Interception Fraction for Non-Leafy	3.500E-01	2.500E-01	---	RDRY(1)
R19B	Dry Foliar Interception Fraction for Leafy	3.500E-01	2.500E-01	---	RDRY(2)
R19B	Dry Foliar Interception Fraction for Fodder	3.500E-01	2.500E-01	---	RDRY(3)
R19B	Wet Foliar Interception Fraction for Non-Leafy	3.500E-01	2.500E-01	---	RWET(1)
R19B	Wet Foliar Interception Fraction for Leafy	7.000E-01	2.500E-01	---	RWET(2)
R19B	Wet Foliar Interception Fraction for Fodder	3.500E-01	2.500E-01	---	RWET(3)
R19B	Weathering Removal Constant for Vegetation	2.150E+01	2.000E+01	---	WLAM
C14	C-12 concentration in water (g/cm**3)	2.000E-05	2.000E-05	---	C12WTR
C14	C-12 concentration in contaminated soil (g/g)	3.000E-02	3.000E-02	---	C12CZ
C14	Fraction of vegetation carbon from soil	2.000E-02	2.000E-02	---	CSOIL
C14	Fraction of vegetation carbon from air	9.800E-01	9.800E-01	---	CAIR
C14	C-14 evasion layer thickness in soil (m)	4.300E-01	3.000E-01	---	DMC
C14	C-14 evasion flux rate from soil (1/sec)	7.000E-07	7.000E-07	---	EVSN
C14	C-12 evasion flux rate from soil (1/sec)	1.000E-10	1.000E-10	---	REVSN
C14	Fraction of grain in beef cattle feed	2.500E-01	8.000E-01	---	AVFG4
C14	Fraction of grain in milk cow feed	1.000E-01	2.000E-01	---	AVFG5
STOR	Storage times of contaminated foodstuffs (days):				
STOR	Fruits, non-leafy vegetables, and grain	1.400E+01	1.400E+01	---	STOR_T(1)
STOR	Leafy vegetables	1.000E+00	1.000E+00	---	STOR_T(2)
STOR	Milk	1.000E+00	1.000E+00	---	STOR_T(3)
STOR	Meat and poultry	1.000E+00	2.000E+01	---	STOR_T(4)
STOR	Fish	7.000E+00	7.000E+00	---	STOR_T(5)
STOR	Crustacea and mollusks	7.000E+00	7.000E+00	---	STOR_T(6)
STOR	Well water	1.000E+00	1.000E+00	---	STOR_T(7)
STOR	Surface water	1.000E+00	1.000E+00	---	STOR_T(8)
STOR	Livestock fodder	4.500E+01	4.500E+01	---	STOR_T(9)
R021	Thickness of building foundation (m)	not used	1.500E-01	---	FLOOR1
R021	Bulk density of building foundation (g/cm**3)	not used	2.400E+00	---	DENSFL
R021	Total porosity of the cover material	not used	4.000E-01	---	TPCV
R021	Total porosity of the building foundation	not used	1.000E-01	---	TPFL

Summary : RESRAD Default

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Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R021	Volumetric water content of the cover material	not used	5.000E-02	---	PH2OCV
R021	Volumetric water content of the foundation	not used	3.000E-02	---	PH2OFL
R021	Diffusion coefficient for radon gas (m/sec):				
R021	in cover material	not used	2.000E-06	---	DIFCV
R021	in foundation material	not used	3.000E-07	---	DIFFL
R021	in contaminated zone soil	not used	2.000E-06	---	DIFCZ
R021	Radon vertical dimension of mixing (m)	not used	2.000E+00	---	HMIX
R021	Average building air exchange rate (1/hr)	not used	5.000E-01	---	REXG
R021	Height of the building (room) (m)	not used	2.500E+00	---	HRM
R021	Building interior area factor	not used	0.000E+00	---	FAI
R021	Building depth below ground surface (m)	not used	-1.000E+00	---	DMFL
R021	Emanating power of Rn-222 gas	not used	2.500E-01	---	EMANA (1)
R021	Emanating power of Rn-220 gas	not used	1.500E-01	---	EMANA (2)
TITL	Number of graphical time points	32	---	---	NPTS
TITL	Maximum number of integration points for dose	17	---	---	LYMAX
TITL	Maximum number of integration points for risk	1	---	---	KYMAX

Summary of Pathway Selections

Pathway	User Selection
1 -- external gamma	active
2 -- inhalation (w/o radon)	active
3 -- plant ingestion	active
4 -- meat ingestion	active
5 -- milk ingestion	active
6 -- aquatic foods	suppressed
7 -- drinking water	active
8 -- soil ingestion	active
9 -- radon	suppressed
Find peak pathway doses	suppressed

Summary : RESRAD Default

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Contaminated Zone Dimensions

Initial Soil Concentrations, pCi/g

Area: 64500.00 square meters
 Thickness: 11.20 meters
 Cover Depth: 3.60 meters

Ag-108m 1.000E+00
 Am-241 1.000E+00
 Am-243 1.000E+00
 C-14 1.000E+00
 Cm-243 1.000E+00
 Cm-244 1.000E+00
 Co-60 1.000E+00
 Cs-134 1.000E+00
 Cs-137 1.000E+00
 Eu-152 1.000E+00
 Eu-154 1.000E+00
 Eu-155 1.000E+00
 Fe-55 1.000E+00
 H-3 1.000E+00
 Nb-94 1.000E+00
 Ni-59 1.000E+00
 Ni-63 1.000E+00
 Np-237 1.000E+00
 Pm-147 1.000E+00
 Pu-238 1.000E+00
 Pu-239 1.000E+00
 Pu-240 1.000E+00
 Pu-241 1.000E+00
 Sb-125 1.000E+00
 Sr-90 1.000E+00
 Tc-99 1.000E+00

Total Dose TDOSE(t), mrem/yr

Basic Radiation Dose Limit = 2.500E+01 mrem/yr

Total Mixture Sum M(t) = Fraction of Basic Dose Limit Received at Time (t)

t (years)	0.000E+00	1.000E+00	3.000E+00	1.000E+01	5.280E+01	1.000E+02	3.000E+02	1.000E+03
TDOSE(t)	2.142E+03	2.102E+03	2.026E+03	1.785E+03	8.408E+02	3.824E+02	4.871E+01	3.062E+01
M(t)	8.566E+01	8.408E+01	8.104E+01	7.139E+01	3.363E+01	1.530E+01	1.948E+00	1.225E+00

Maximum TDOSE(t): 2.142E+03 mrem/yr at t = 0.000E+00 years

Summary : RESRAD Default

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Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 0.000E+00 years

Water Dependent Pathways

Radio- Nuclide	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ag-108m	1.337E-01	0.0001	0.000E+00	0.0000	0.000E+00	0.0000	1.953E-02	0.0000	5.162E-03	0.0000	9.134E-02	0.0000	2.498E-01	0.0001
Am-241	9.795E+00	0.0046	0.000E+00	0.0000	0.000E+00	0.0000	1.429E+00	0.0007	6.744E-03	0.0000	2.254E-03	0.0000	1.123E+01	0.0052
Am-243	9.772E+00	0.0046	0.000E+00	0.0000	0.000E+00	0.0000	1.426E+00	0.0007	6.719E-03	0.0000	2.248E-03	0.0000	1.121E+01	0.0052
C-14	7.058E-01	0.0003	0.000E+00	0.0000	0.000E+00	0.0000	1.279E+00	0.0006	3.886E-01	0.0002	3.325E-01	0.0002	2.706E+00	0.0013
Cm-243	1.331E+00	0.0006	0.000E+00	0.0000	0.000E+00	0.0000	1.941E-01	0.0001	6.424E-04	0.0000	3.539E-04	0.0000	1.526E+00	0.0007
Cm-244	1.064E+00	0.0005	0.000E+00	0.0000	0.000E+00	0.0000	1.553E-01	0.0001	5.148E-04	0.0000	2.829E-04	0.0000	1.221E+00	0.0006
Co-60	5.398E-02	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	8.016E-03	0.0000	3.781E-02	0.0000	1.244E-02	0.0000	1.122E-01	0.0001
Cs-134	6.583E-01	0.0003	0.000E+00	0.0000	0.000E+00	0.0000	9.687E-02	0.0000	5.164E-01	0.0002	6.630E-01	0.0003	1.935E+00	0.0009
Cs-137	5.226E-01	0.0002	0.000E+00	0.0000	0.000E+00	0.0000	7.690E-02	0.0000	4.100E-01	0.0002	5.263E-01	0.0002	1.536E+00	0.0007
Eu-152	3.171E-02	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.627E-03	0.0000	1.530E-03	0.0000	1.140E-04	0.0000	3.798E-02	0.0000
Eu-154	4.606E-02	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.720E-03	0.0000	2.222E-03	0.0000	1.656E-04	0.0000	5.517E-02	0.0000
Eu-155	7.148E-03	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.043E-03	0.0000	3.449E-04	0.0000	2.569E-05	0.0000	8.562E-03	0.0000
Fe-55	8.971E-05	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.309E-05	0.0000	4.220E-05	0.0000	3.031E-06	0.0000	1.480E-04	0.0000
H-3	1.381E-01	0.0001	0.000E+00	0.0000	0.000E+00	0.0000	2.873E-02	0.0000	8.971E-03	0.0000	4.101E-02	0.0000	2.169E-01	0.0001
Nb-94	7.548E-02	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.106E-02	0.0000	1.639E-06	0.0000	1.737E-05	0.0000	8.656E-02	0.0000
Ni-59	1.613E-03	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.380E-04	0.0000	1.792E-04	0.0000	3.715E-03	0.0000	5.746E-03	0.0000
Ni-63	4.418E-03	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.516E-04	0.0000	4.906E-04	0.0000	1.017E-02	0.0000	1.573E-02	0.0000
Np-237	1.748E+03	0.8161	0.000E+00	0.0000	0.000E+00	0.0000	2.561E+02	0.1196	2.111E+01	0.0099	1.258E+00	0.0006	2.026E+03	0.9461
Pm-147	4.632E-03	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.761E-04	0.0000	2.235E-04	0.0000	3.663E-05	0.0000	5.569E-03	0.0000
Pu-238	8.745E+00	0.0041	0.000E+00	0.0000	0.000E+00	0.0000	1.276E+00	0.0006	1.160E-02	0.0000	8.614E-04	0.0000	1.003E+01	0.0047
Pu-239	9.712E+00	0.0045	0.000E+00	0.0000	0.000E+00	0.0000	1.417E+00	0.0007	1.289E-02	0.0000	9.565E-04	0.0000	1.114E+01	0.0052
Pu-240	9.712E+00	0.0045	0.000E+00	0.0000	0.000E+00	0.0000	1.417E+00	0.0007	1.289E-02	0.0000	9.565E-04	0.0000	1.114E+01	0.0052
Pu-241	2.071E-01	0.0001	0.000E+00	0.0000	0.000E+00	0.0000	3.021E-02	0.0000	2.596E-04	0.0000	2.353E-05	0.0000	2.376E-01	0.0001
Sb-125	1.529E+00	0.0007	0.000E+00	0.0000	0.000E+00	0.0000	2.159E-01	0.0001	1.065E-01	0.0000	4.240E-02	0.0000	1.894E+00	0.0009
Sr-90	2.869E+01	0.0134	0.000E+00	0.0000	0.000E+00	0.0000	4.751E+00	0.0022	4.539E+00	0.0021	5.637E+00	0.0026	4.362E+01	0.0204
Tc-99	3.239E+00	0.0015	0.000E+00	0.0000	0.000E+00	0.0000	1.453E+00	0.0007	7.108E-03	0.0000	4.431E-01	0.0002	5.142E+00	0.0024
Total	1.834E+03	0.8563	0.000E+00	0.0000	0.000E+00	0.0000	2.714E+02	0.1267	2.718E+01	0.0127	9.070E+00	0.0042	2.142E+03	1.0000

*Sum of all water independent and dependent pathways.

Summary : RESRAD Default

File : C:\USERS\DAVID FAUVER\DOCUMENTS\ZION\RESRAD\TSD\ROC SCREENING\ROC SCREENING INPUT RAD FILE\FINAL\ZION ROC SCREENING.RAD

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 1.000E+00 years

Water Dependent Pathways

Radio- Nuclide	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ag-108m	1.334E-01	0.0001	0.000E+00	0.0000	0.000E+00	0.0000	1.949E-02	0.0000	5.150E-03	0.0000	9.112E-02	0.0000	2.491E-01	0.0001
Am-241	9.779E+00	0.0047	0.000E+00	0.0000	0.000E+00	0.0000	1.427E+00	0.0007	6.739E-03	0.0000	2.250E-03	0.0000	1.121E+01	0.0053
Am-243	9.770E+00	0.0046	0.000E+00	0.0000	0.000E+00	0.0000	1.425E+00	0.0007	6.718E-03	0.0000	2.247E-03	0.0000	1.120E+01	0.0053
C-14	6.949E-01	0.0003	0.000E+00	0.0000	0.000E+00	0.0000	1.259E+00	0.0006	3.827E-01	0.0002	3.274E-01	0.0002	2.664E+00	0.0013
Cm-243	1.300E+00	0.0006	0.000E+00	0.0000	0.000E+00	0.0000	1.896E-01	0.0001	6.277E-04	0.0000	3.456E-04	0.0000	1.490E+00	0.0007
Cm-244	1.025E+00	0.0005	0.000E+00	0.0000	0.000E+00	0.0000	1.496E-01	0.0001	4.968E-04	0.0000	2.723E-04	0.0000	1.176E+00	0.0006
Co-60	4.732E-02	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.027E-03	0.0000	3.315E-02	0.0000	1.090E-02	0.0000	9.840E-02	0.0000
Cs-134	4.703E-01	0.0002	0.000E+00	0.0000	0.000E+00	0.0000	6.921E-02	0.0000	3.690E-01	0.0002	4.737E-01	0.0002	1.382E+00	0.0007
Cs-137	5.104E-01	0.0002	0.000E+00	0.0000	0.000E+00	0.0000	7.512E-02	0.0000	4.004E-01	0.0002	5.141E-01	0.0002	1.500E+00	0.0007
Eu-152	3.012E-02	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.395E-03	0.0000	1.453E-03	0.0000	1.083E-04	0.0000	3.608E-02	0.0000
Eu-154	4.248E-02	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.198E-03	0.0000	2.050E-03	0.0000	1.527E-04	0.0000	5.088E-02	0.0000
Eu-155	6.178E-03	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	9.014E-04	0.0000	2.981E-04	0.0000	2.221E-05	0.0000	7.400E-03	0.0000
Fe-55	6.964E-05	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.016E-05	0.0000	3.276E-05	0.0000	2.353E-06	0.0000	1.149E-04	0.0000
H-3	1.175E-01	0.0001	0.000E+00	0.0000	0.000E+00	0.0000	2.444E-02	0.0000	7.630E-03	0.0000	3.488E-02	0.0000	1.844E-01	0.0001
Nb-94	7.544E-02	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.105E-02	0.0000	1.639E-06	0.0000	1.736E-05	0.0000	8.651E-02	0.0000
Ni-59	1.613E-03	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.379E-04	0.0000	1.791E-04	0.0000	3.714E-03	0.0000	5.744E-03	0.0000
Ni-63	4.386E-03	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.469E-04	0.0000	4.871E-04	0.0000	1.010E-02	0.0000	1.562E-02	0.0000
Np-237	1.716E+03	0.8165	0.000E+00	0.0000	0.000E+00	0.0000	2.515E+02	0.1197	2.073E+01	0.0099	1.236E+00	0.0006	1.990E+03	0.9466
Pm-147	3.556E-03	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.190E-04	0.0000	1.716E-04	0.0000	2.812E-05	0.0000	4.275E-03	0.0000
Pu-238	8.675E+00	0.0041	0.000E+00	0.0000	0.000E+00	0.0000	1.266E+00	0.0006	1.151E-02	0.0000	8.546E-04	0.0000	9.953E+00	0.0047
Pu-239	9.711E+00	0.0046	0.000E+00	0.0000	0.000E+00	0.0000	1.417E+00	0.0007	1.289E-02	0.0000	9.564E-04	0.0000	1.114E+01	0.0053
Pu-240	9.710E+00	0.0046	0.000E+00	0.0000	0.000E+00	0.0000	1.417E+00	0.0007	1.288E-02	0.0000	9.563E-04	0.0000	1.114E+01	0.0053
Pu-241	2.134E-01	0.0001	0.000E+00	0.0000	0.000E+00	0.0000	3.113E-02	0.0000	2.584E-04	0.0000	2.612E-05	0.0000	2.448E-01	0.0001
Sb-125	1.191E+00	0.0006	0.000E+00	0.0000	0.000E+00	0.0000	1.664E-01	0.0001	8.016E-02	0.0000	3.142E-02	0.0000	1.469E+00	0.0007
Sr-90	2.777E+01	0.0132	0.000E+00	0.0000	0.000E+00	0.0000	4.598E+00	0.0022	4.393E+00	0.0021	5.456E+00	0.0026	4.221E+01	0.0201
Tc-99	2.914E+00	0.0014	0.000E+00	0.0000	0.000E+00	0.0000	1.307E+00	0.0006	6.400E-03	0.0000	3.991E-01	0.0002	4.626E+00	0.0022
Total	1.801E+03	0.8566	0.000E+00	0.0000	0.000E+00	0.0000	2.664E+02	0.1267	2.647E+01	0.0126	8.597E+00	0.0041	2.102E+03	1.0000

*Sum of all water independent and dependent pathways.

Summary : RESRAD Default

File : C:\USERS\DAVID FAUVER\DOCUMENTS\ZION\RESRAD\TSD\ROC SCREENING\ROC SCREENING INPUT RAD FILE\FINAL\ZION ROC SCREENING.RAD

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 3.000E+00 years

Water Dependent Pathways

Radio- Nuclide	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ag-108m	1.327E-01	0.0001	0.000E+00	0.0000	0.000E+00	0.0000	1.939E-02	0.0000	5.124E-03	0.0000	9.067E-02	0.0000	2.479E-01	0.0001
Am-241	9.746E+00	0.0048	0.000E+00	0.0000	0.000E+00	0.0000	1.422E+00	0.0007	6.728E-03	0.0000	2.243E-03	0.0000	1.118E+01	0.0055
Am-243	9.766E+00	0.0048	0.000E+00	0.0000	0.000E+00	0.0000	1.425E+00	0.0007	6.716E-03	0.0000	2.247E-03	0.0000	1.120E+01	0.0055
C-14	6.735E-01	0.0003	0.000E+00	0.0000	0.000E+00	0.0000	1.220E+00	0.0006	3.709E-01	0.0002	3.173E-01	0.0002	2.582E+00	0.0013
Cm-243	1.240E+00	0.0006	0.000E+00	0.0000	0.000E+00	0.0000	1.808E-01	0.0001	5.992E-04	0.0000	3.295E-04	0.0000	1.421E+00	0.0007
Cm-244	9.519E-01	0.0005	0.000E+00	0.0000	0.000E+00	0.0000	1.389E-01	0.0001	4.629E-04	0.0000	2.524E-04	0.0000	1.091E+00	0.0005
Co-60	3.637E-02	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.401E-03	0.0000	2.548E-02	0.0000	8.380E-03	0.0000	7.563E-02	0.0000
Cs-134	2.401E-01	0.0001	0.000E+00	0.0000	0.000E+00	0.0000	3.533E-02	0.0000	1.884E-01	0.0001	2.418E-01	0.0001	7.056E-01	0.0003
Cs-137	4.870E-01	0.0002	0.000E+00	0.0000	0.000E+00	0.0000	7.167E-02	0.0000	3.821E-01	0.0002	4.906E-01	0.0002	1.431E+00	0.0007
Eu-152	2.718E-02	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.965E-03	0.0000	1.311E-03	0.0000	9.769E-05	0.0000	3.255E-02	0.0000
Eu-154	3.614E-02	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.272E-03	0.0000	1.744E-03	0.0000	1.299E-04	0.0000	4.328E-02	0.0000
Eu-155	4.615E-03	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.734E-04	0.0000	2.227E-04	0.0000	1.659E-05	0.0000	5.528E-03	0.0000
Fe-55	4.196E-05	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.122E-06	0.0000	1.974E-05	0.0000	1.418E-06	0.0000	6.925E-05	0.0000
H-3	8.490E-02	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.767E-02	0.0000	5.515E-03	0.0000	2.522E-02	0.0000	1.333E-01	0.0001
Nb-94	7.536E-02	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.104E-02	0.0000	1.637E-06	0.0000	1.734E-05	0.0000	8.642E-02	0.0000
Ni-59	1.612E-03	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.377E-04	0.0000	1.790E-04	0.0000	3.711E-03	0.0000	5.740E-03	0.0000
Ni-63	4.322E-03	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.375E-04	0.0000	4.800E-04	0.0000	9.953E-03	0.0000	1.539E-02	0.0000
Np-237	1.655E+03	0.8171	0.000E+00	0.0000	0.000E+00	0.0000	2.426E+02	0.1197	1.999E+01	0.0099	1.192E+00	0.0006	1.919E+03	0.9473
Pm-147	2.095E-03	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.058E-04	0.0000	1.011E-04	0.0000	1.657E-05	0.0000	2.519E-03	0.0000
Pu-238	8.537E+00	0.0042	0.000E+00	0.0000	0.000E+00	0.0000	1.245E+00	0.0006	1.133E-02	0.0000	8.412E-04	0.0000	9.795E+00	0.0048
Pu-239	9.708E+00	0.0048	0.000E+00	0.0000	0.000E+00	0.0000	1.416E+00	0.0007	1.288E-02	0.0000	9.561E-04	0.0000	1.114E+01	0.0055
Pu-240	9.706E+00	0.0048	0.000E+00	0.0000	0.000E+00	0.0000	1.416E+00	0.0007	1.288E-02	0.0000	9.559E-04	0.0000	1.114E+01	0.0055
Pu-241	2.250E-01	0.0001	0.000E+00	0.0000	0.000E+00	0.0000	3.282E-02	0.0000	2.561E-04	0.0000	3.092E-05	0.0000	2.581E-01	0.0001
Sb-125	7.187E-01	0.0004	0.000E+00	0.0000	0.000E+00	0.0000	1.004E-01	0.0000	4.837E-02	0.0000	1.896E-02	0.0000	8.864E-01	0.0004
Sr-90	2.600E+01	0.0128	0.000E+00	0.0000	0.000E+00	0.0000	4.306E+00	0.0021	4.114E+00	0.0020	5.110E+00	0.0025	3.954E+01	0.0195
Tc-99	2.357E+00	0.0012	0.000E+00	0.0000	0.000E+00	0.0000	1.057E+00	0.0005	5.177E-03	0.0000	3.229E-01	0.0002	3.742E+00	0.0018
Total	1.736E+03	0.8570	0.000E+00	0.0000	0.000E+00	0.0000	2.567E+02	0.1267	2.520E+01	0.0124	7.840E+00	0.0039	2.026E+03	1.0000

*Sum of all water independent and dependent pathways.

Summary : RESRAD Default

File : C:\USERS\DAVID FAUVER\DOCUMENTS\ZION\RESRAD\TSD\ROC SCREENING\ROC SCREENING INPUT RAD FILE\FINAL\ZION ROC SCREENING.RAD

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 1.000E+01 years

Water Dependent Pathways

Radio- Nuclide	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ag-108m	1.305E-01	0.0001	0.000E+00	0.0000	0.000E+00	0.0000	1.906E-02	0.0000	5.037E-03	0.0000	8.912E-02	0.0000	2.437E-01	0.0001
Am-241	9.632E+00	0.0054	0.000E+00	0.0000	0.000E+00	0.0000	1.405E+00	0.0008	6.689E-03	0.0000	2.219E-03	0.0000	1.105E+01	0.0062
Am-243	9.754E+00	0.0055	0.000E+00	0.0000	0.000E+00	0.0000	1.423E+00	0.0008	6.708E-03	0.0000	2.243E-03	0.0000	1.119E+01	0.0063
C-14	6.037E-01	0.0003	0.000E+00	0.0000	0.000E+00	0.0000	1.094E+00	0.0006	3.325E-01	0.0002	2.844E-01	0.0002	2.315E+00	0.0013
Cm-243	1.051E+00	0.0006	0.000E+00	0.0000	0.000E+00	0.0000	1.533E-01	0.0001	5.095E-04	0.0000	2.791E-04	0.0000	1.205E+00	0.0007
Cm-244	7.345E-01	0.0004	0.000E+00	0.0000	0.000E+00	0.0000	1.071E-01	0.0001	3.627E-04	0.0000	1.937E-04	0.0000	8.421E-01	0.0005
Co-60	1.448E-02	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.150E-03	0.0000	1.014E-02	0.0000	3.336E-03	0.0000	3.011E-02	0.0000
Cs-134	2.282E-02	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.359E-03	0.0000	1.791E-02	0.0000	2.299E-02	0.0000	6.708E-02	0.0000
Cs-137	4.133E-01	0.0002	0.000E+00	0.0000	0.000E+00	0.0000	6.082E-02	0.0000	3.242E-01	0.0002	4.163E-01	0.0002	1.215E+00	0.0007
Eu-152	1.896E-02	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.766E-03	0.0000	9.149E-04	0.0000	6.815E-05	0.0000	2.271E-02	0.0000
Eu-154	2.051E-02	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.993E-03	0.0000	9.897E-04	0.0000	7.373E-05	0.0000	2.457E-02	0.0000
Eu-155	1.663E-03	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.427E-04	0.0000	8.025E-05	0.0000	5.978E-06	0.0000	1.992E-03	0.0000
Fe-55	7.128E-06	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.040E-06	0.0000	3.353E-06	0.0000	2.408E-07	0.0000	1.176E-05	0.0000
H-3	2.726E-02	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.674E-03	0.0000	1.771E-03	0.0000	8.098E-03	0.0000	4.281E-02	0.0000
Nb-94	7.509E-02	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.100E-02	0.0000	1.631E-06	0.0000	1.728E-05	0.0000	8.611E-02	0.0000
Ni-59	1.608E-03	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.371E-04	0.0000	1.785E-04	0.0000	3.702E-03	0.0000	5.725E-03	0.0000
Ni-63	4.108E-03	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.059E-04	0.0000	4.562E-04	0.0000	9.459E-03	0.0000	1.463E-02	0.0000
Np-237	1.459E+03	0.8174	0.000E+00	0.0000	0.000E+00	0.0000	2.138E+02	0.1198	1.762E+01	0.0099	1.050E+00	0.0006	1.691E+03	0.9476
Pm-147	3.291E-04	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.804E-05	0.0000	1.588E-05	0.0000	2.603E-06	0.0000	3.956E-04	0.0000
Pu-238	8.071E+00	0.0045	0.000E+00	0.0000	0.000E+00	0.0000	1.177E+00	0.0007	1.071E-02	0.0000	7.958E-04	0.0000	9.260E+00	0.0052
Pu-239	9.698E+00	0.0054	0.000E+00	0.0000	0.000E+00	0.0000	1.415E+00	0.0008	1.287E-02	0.0000	9.551E-04	0.0000	1.113E+01	0.0062
Pu-240	9.690E+00	0.0054	0.000E+00	0.0000	0.000E+00	0.0000	1.414E+00	0.0008	1.286E-02	0.0000	9.543E-04	0.0000	1.112E+01	0.0062
Pu-241	2.571E-01	0.0001	0.000E+00	0.0000	0.000E+00	0.0000	3.751E-02	0.0000	2.495E-04	0.0000	4.431E-05	0.0000	2.949E-01	0.0002
Sb-125	1.227E-01	0.0001	0.000E+00	0.0000	0.000E+00	0.0000	1.714E-02	0.0000	8.258E-03	0.0000	3.238E-03	0.0000	1.513E-01	0.0001
Sr-90	2.067E+01	0.0116	0.000E+00	0.0000	0.000E+00	0.0000	3.424E+00	0.0019	3.271E+00	0.0018	4.062E+00	0.0023	3.143E+01	0.0176
Tc-99	1.122E+00	0.0006	0.000E+00	0.0000	0.000E+00	0.0000	5.034E-01	0.0003	2.465E-03	0.0000	1.537E-01	0.0001	1.782E+00	0.0010
Total	1.531E+03	0.8578	0.000E+00	0.0000	0.000E+00	0.0000	2.260E+02	0.1267	2.164E+01	0.0121	6.115E+00	0.0034	1.785E+03	1.0000

*Sum of all water independent and dependent pathways.

Summary : RESRAD Default

File : C:\USERS\DAVID FAUVER\DOCUMENTS\ZION\RESRAD\TSD\ROC SCREENING\ROC SCREENING INPUT RAD FILE\FINAL\ZION ROC SCREENING.RAD

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 5.280E+01 years

Water Dependent Pathways

Radio- Nuclide	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ag-108m	1.174E-01	0.0001	0.000E+00	0.0000	0.000E+00	0.0000	1.715E-02	0.0000	4.534E-03	0.0000	8.022E-02	0.0001	2.193E-01	0.0003
Am-241	8.959E+00	0.0107	0.000E+00	0.0000	0.000E+00	0.0000	1.307E+00	0.0016	6.372E-03	0.0000	2.070E-03	0.0000	1.027E+01	0.0122
Am-243	9.675E+00	0.0115	0.000E+00	0.0000	0.000E+00	0.0000	1.411E+00	0.0017	6.662E-03	0.0000	2.224E-03	0.0000	1.110E+01	0.0132
C-14	3.093E-01	0.0004	0.000E+00	0.0000	0.000E+00	0.0000	5.605E-01	0.0007	1.703E-01	0.0002	1.457E-01	0.0002	1.186E+00	0.0014
Cm-243	3.864E-01	0.0005	0.000E+00	0.0000	0.000E+00	0.0000	5.637E-02	0.0001	1.938E-04	0.0000	1.013E-04	0.0000	4.431E-01	0.0005
Cm-244	1.647E-01	0.0002	0.000E+00	0.0000	0.000E+00	0.0000	2.402E-02	0.0000	9.983E-05	0.0000	3.976E-05	0.0000	1.888E-01	0.0002
Co-60	5.184E-05	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.699E-06	0.0000	3.631E-05	0.0000	1.194E-05	0.0000	1.078E-04	0.0000
Cs-134	1.287E-08	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.894E-09	0.0000	1.010E-08	0.0000	1.296E-08	0.0000	3.782E-08	0.0000
Cs-137	1.514E-01	0.0002	0.000E+00	0.0000	0.000E+00	0.0000	2.228E-02	0.0000	1.188E-01	0.0001	1.525E-01	0.0002	4.450E-01	0.0005
Eu-152	2.098E-03	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.061E-04	0.0000	1.012E-04	0.0000	7.542E-06	0.0000	2.513E-03	0.0000
Eu-154	6.433E-04	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	9.385E-05	0.0000	3.104E-05	0.0000	2.312E-06	0.0000	7.705E-04	0.0000
Eu-155	3.240E-06	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.727E-07	0.0000	1.563E-07	0.0000	1.165E-08	0.0000	3.881E-06	0.0000
Fe-55	1.398E-10	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.039E-11	0.0000	6.576E-11	0.0000	4.723E-12	0.0000	2.306E-10	0.0000
H-3	2.626E-05	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.465E-06	0.0000	1.706E-06	0.0000	7.799E-06	0.0000	4.123E-05	0.0000
Nb-94	7.345E-02	0.0001	0.000E+00	0.0000	0.000E+00	0.0000	1.076E-02	0.0000	1.595E-06	0.0000	1.690E-05	0.0000	8.423E-02	0.0001
Ni-59	1.583E-03	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.335E-04	0.0000	1.758E-04	0.0000	3.646E-03	0.0000	5.638E-03	0.0000
Ni-63	3.009E-03	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.438E-04	0.0000	3.341E-04	0.0000	6.928E-03	0.0000	1.071E-02	0.0000
Np-237	6.729E+02	0.8003	0.000E+00	0.0000	0.000E+00	0.0000	9.861E+01	0.1173	8.128E+00	0.0097	4.846E-01	0.0006	7.801E+02	0.9278
Pm-147	4.002E-09	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.841E-10	0.0000	1.930E-10	0.0000	3.163E-11	0.0000	4.810E-09	0.0000
Pu-238	5.724E+00	0.0068	0.000E+00	0.0000	0.000E+00	0.0000	8.350E-01	0.0010	7.596E-03	0.0000	5.675E-04	0.0000	6.567E+00	0.0078
Pu-239	9.634E+00	0.0115	0.000E+00	0.0000	0.000E+00	0.0000	1.405E+00	0.0017	1.278E-02	0.0000	9.488E-04	0.0000	1.105E+01	0.0131
Pu-240	9.595E+00	0.0114	0.000E+00	0.0000	0.000E+00	0.0000	1.400E+00	0.0017	1.273E-02	0.0000	9.450E-04	0.0000	1.101E+01	0.0131
Pu-241	3.114E-01	0.0004	0.000E+00	0.0000	0.000E+00	0.0000	4.542E-02	0.0001	2.285E-04	0.0000	6.999E-05	0.0000	3.571E-01	0.0004
Sb-125	2.481E-06	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.466E-07	0.0000	1.670E-07	0.0000	6.548E-08	0.0000	3.060E-06	0.0000
Sr-90	5.084E+00	0.0060	0.000E+00	0.0000	0.000E+00	0.0000	8.420E-01	0.0010	8.044E-01	0.0010	9.991E-01	0.0012	7.730E+00	0.0092
Tc-99	1.201E-02	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.387E-03	0.0000	2.637E-05	0.0000	1.645E-03	0.0000	1.907E-02	0.0000
Total	7.231E+02	0.8600	0.000E+00	0.0000	0.000E+00	0.0000	1.065E+02	0.1267	9.273E+00	0.0110	1.881E+00	0.0022	8.408E+02	1.0000

*Sum of all water independent and dependent pathways.

Summary : RESRAD Default

File : C:\USERS\DAVID FAUVER\DOCUMENTS\ZION\RESRAD\TSD\ROC SCREENING\ROC SCREENING INPUT RAD FILE\FINAL\ZION ROC SCREENING.RAD

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
 As mrem/yr and Fraction of Total Dose At t = 1.000E+02 years

Water Dependent Pathways

Radio- Nuclide	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ag-108m	1.046E-01	0.0003	0.000E+00	0.0000	0.000E+00	0.0000	1.527E-02	0.0000	4.037E-03	0.0000	7.143E-02	0.0002	1.953E-01	0.0005
Am-241	8.264E+00	0.0216	0.000E+00	0.0000	0.000E+00	0.0000	1.206E+00	0.0032	5.952E-03	0.0000	1.913E-03	0.0000	9.478E+00	0.0248
Am-243	9.589E+00	0.0251	0.000E+00	0.0000	0.000E+00	0.0000	1.399E+00	0.0037	6.611E-03	0.0000	2.202E-03	0.0000	1.100E+01	0.0288
C-14	1.479E-01	0.0004	0.000E+00	0.0000	0.000E+00	0.0000	2.681E-01	0.0007	8.147E-02	0.0002	6.970E-02	0.0002	5.672E-01	0.0015
Cm-243	1.335E-01	0.0003	0.000E+00	0.0000	0.000E+00	0.0000	1.947E-02	0.0001	7.351E-05	0.0000	3.369E-05	0.0000	1.530E-01	0.0004
Cm-244	4.979E-02	0.0001	0.000E+00	0.0000	0.000E+00	0.0000	7.263E-03	0.0000	4.662E-05	0.0000	8.761E-06	0.0000	5.711E-02	0.0001
Co-60	1.040E-07	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.545E-08	0.0000	7.288E-08	0.0000	2.397E-08	0.0000	2.163E-07	0.0000
Cs-134	1.653E-15	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.433E-16	0.0000	1.297E-15	0.0000	1.665E-15	0.0000	4.859E-15	0.0000
Cs-137	5.004E-02	0.0001	0.000E+00	0.0000	0.000E+00	0.0000	7.364E-03	0.0000	3.926E-02	0.0001	5.040E-02	0.0001	1.471E-01	0.0004
Eu-152	1.851E-04	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.701E-05	0.0000	8.934E-06	0.0000	6.655E-07	0.0000	2.218E-04	0.0000
Eu-154	1.413E-05	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.062E-06	0.0000	6.819E-07	0.0000	5.079E-08	0.0000	1.693E-05	0.0000
Eu-155	3.323E-09	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.848E-10	0.0000	1.603E-10	0.0000	1.194E-11	0.0000	3.980E-09	0.0000
Fe-55	8.994E-16	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.312E-16	0.0000	4.231E-16	0.0000	3.039E-17	0.0000	1.484E-15	0.0000
H-3	1.238E-08	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.577E-09	0.0000	8.045E-10	0.0000	3.678E-09	0.0000	1.944E-08	0.0000
Nb-94	7.168E-02	0.0002	0.000E+00	0.0000	0.000E+00	0.0000	1.050E-02	0.0000	1.557E-06	0.0000	1.650E-05	0.0000	8.220E-02	0.0002
Ni-59	1.557E-03	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.296E-04	0.0000	1.729E-04	0.0000	3.585E-03	0.0000	5.544E-03	0.0000
Ni-63	2.134E-03	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.148E-04	0.0000	2.370E-04	0.0000	4.915E-03	0.0000	7.601E-03	0.0000
Np-237	2.867E+02	0.7497	0.000E+00	0.0000	0.000E+00	0.0000	4.201E+01	0.1099	3.463E+00	0.0091	2.065E-01	0.0005	3.324E+02	0.8692
Pm-147	3.458E-12	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.045E-13	0.0000	8.380E-14	0.0000	1.497E-14	0.0000	4.061E-12	0.0000
Pu-238	3.918E+00	0.0102	0.000E+00	0.0000	0.000E+00	0.0000	5.716E-01	0.0015	5.201E-03	0.0000	3.919E-04	0.0000	4.496E+00	0.0118
Pu-239	9.564E+00	0.0250	0.000E+00	0.0000	0.000E+00	0.0000	1.395E+00	0.0036	1.269E-02	0.0000	9.419E-04	0.0000	1.097E+01	0.0287
Pu-240	9.491E+00	0.0248	0.000E+00	0.0000	0.000E+00	0.0000	1.385E+00	0.0036	1.259E-02	0.0000	9.348E-04	0.0000	1.089E+01	0.0285
Pu-241	2.966E-01	0.0008	0.000E+00	0.0000	0.000E+00	0.0000	4.327E-02	0.0001	2.134E-04	0.0000	6.841E-05	0.0000	3.402E-01	0.0009
Sb-125	1.652E-11	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.308E-12	0.0000	1.112E-12	0.0000	4.359E-13	0.0000	2.037E-11	0.0000
Sr-90	1.082E+00	0.0028	0.000E+00	0.0000	0.000E+00	0.0000	1.793E-01	0.0005	1.713E-01	0.0004	2.127E-01	0.0006	1.646E+00	0.0043
Tc-99	8.059E-05	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.616E-05	0.0000	1.770E-07	0.0000	1.104E-05	0.0000	1.280E-04	0.0000
Total	3.295E+02	0.8615	0.000E+00	0.0000	0.000E+00	0.0000	4.852E+01	0.1269	3.803E+00	0.0099	6.257E-01	0.0016	3.824E+02	1.0000

*Sum of all water independent and dependent pathways.

Summary : RESRAD Default

File : C:\USERS\DAVID FAUVER\DOCUMENTS\ZION\RESRAD\TSD\ROC SCREENING\ROC SCREENING INPUT RAD FILE\FINAL\ZION ROC SCREENING.RAD

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 3.000E+02 years

Water Dependent Pathways

Radio- Nuclide	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ag-108m	6.395E-02	0.0013	0.000E+00	0.0000	0.000E+00	0.0000	9.341E-03	0.0002	2.469E-03	0.0001	4.368E-02	0.0009	1.194E-01	0.0025
Am-241	5.855E+00	0.1202	0.000E+00	0.0000	0.000E+00	0.0000	8.542E-01	0.0175	4.260E-03	0.0001	1.357E-03	0.0000	6.715E+00	0.1379
Am-243	9.236E+00	0.1896	0.000E+00	0.0000	0.000E+00	0.0000	1.347E+00	0.0277	6.401E-03	0.0001	2.114E-03	0.0000	1.059E+01	0.2174
C-14	6.500E-03	0.0001	0.000E+00	0.0000	0.000E+00	0.0000	1.178E-02	0.0002	3.580E-03	0.0001	3.062E-03	0.0001	2.492E-02	0.0005
Cm-243	1.262E-02	0.0003	0.000E+00	0.0000	0.000E+00	0.0000	1.841E-03	0.0000	1.581E-05	0.0000	1.429E-06	0.0000	1.448E-02	0.0003
Cm-244	2.611E-02	0.0005	0.000E+00	0.0000	0.000E+00	0.0000	3.809E-03	0.0001	3.464E-05	0.0000	2.574E-06	0.0000	2.996E-02	0.0006
Co-60	3.866E-19	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.742E-20	0.0000	2.708E-19	0.0000	8.908E-20	0.0000	8.040E-19	0.0000
Cs-134	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Cs-137	4.589E-04	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.753E-05	0.0000	3.600E-04	0.0000	4.622E-04	0.0000	1.349E-03	0.0000
Eu-152	6.312E-09	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	9.209E-10	0.0000	3.046E-10	0.0000	2.269E-11	0.0000	7.560E-09	0.0000
Eu-154	1.330E-12	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.941E-13	0.0000	6.419E-14	0.0000	4.782E-15	0.0000	1.593E-12	0.0000
Eu-155	7.183E-22	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.048E-22	0.0000	3.466E-23	0.0000	2.582E-24	0.0000	8.603E-22	0.0000
Fe-55	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
H-3	9.954E-23	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.071E-23	0.0000	6.466E-24	0.0000	2.956E-23	0.0000	1.563E-22	0.0000
Nb-94	6.466E-02	0.0013	0.000E+00	0.0000	0.000E+00	0.0000	9.474E-03	0.0002	1.404E-06	0.0000	1.488E-05	0.0000	7.415E-02	0.0015
Ni-59	1.450E-03	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.138E-04	0.0000	1.610E-04	0.0000	3.338E-03	0.0001	5.162E-03	0.0001
Ni-63	4.982E-04	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.348E-05	0.0000	5.533E-05	0.0000	1.147E-03	0.0000	1.774E-03	0.0000
Np-237	7.716E+00	0.1584	0.000E+00	0.0000	0.000E+00	0.0000	1.131E+00	0.0232	9.320E-02	0.0019	5.564E-03	0.0001	8.946E+00	0.1837
Pm-147	3.425E-12	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.997E-13	0.0000	8.263E-14	0.0000	1.477E-14	0.0000	4.022E-12	0.0000
Pu-238	7.869E-01	0.0162	0.000E+00	0.0000	0.000E+00	0.0000	1.148E-01	0.0024	1.047E-03	0.0000	8.708E-05	0.0000	9.029E-01	0.0185
Pu-239	9.275E+00	0.1904	0.000E+00	0.0000	0.000E+00	0.0000	1.353E+00	0.0278	1.231E-02	0.0003	9.135E-04	0.0000	1.064E+01	0.2185
Pu-240	9.063E+00	0.1861	0.000E+00	0.0000	0.000E+00	0.0000	1.322E+00	0.0271	1.203E-02	0.0002	8.929E-04	0.0000	1.040E+01	0.2135
Pu-241	2.110E-01	0.0043	0.000E+00	0.0000	0.000E+00	0.0000	3.079E-02	0.0006	1.535E-04	0.0000	4.891E-05	0.0000	2.420E-01	0.0050
Sb-125	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Sr-90	1.541E-03	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.552E-04	0.0000	2.438E-04	0.0000	3.028E-04	0.0000	2.343E-03	0.0000
Tc-99	4.988E-14	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.238E-14	0.0000	1.096E-16	0.0000	6.833E-15	0.0000	7.920E-14	0.0000
Total	4.232E+01	0.8688	0.000E+00	0.0000	0.000E+00	0.0000	6.190E+00	0.1271	1.363E-01	0.0028	6.299E-02	0.0013	4.871E+01	1.0000

*Sum of all water independent and dependent pathways.

Summary : RESRAD Default

File : C:\USERS\DAVID FAUVER\DOCUMENTS\ZION\RESRAD\TSD\ROC SCREENING\ROC SCREENING INPUT RAD FILE\FINAL\ZION ROC SCREENING.RAD

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)

As mrem/yr and Fraction of Total Dose At t = 1.000E+03 years

Water Independent Pathways (Inhalation excludes radon)

Radio- Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ag-108m	2.778E-17	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.074E-04	0.0000	9.164E-06	0.0000	2.243E-04	0.0000	0.000E+00	0.0000
Am-241	1.506E-23	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.015E-02	0.0016	3.965E-05	0.0000	1.828E-05	0.0000	0.000E+00	0.0000
Am-243	2.596E-24	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.326E-01	0.0076	1.879E-04	0.0000	8.338E-05	0.0000	0.000E+00	0.0000
C-14	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.415E-09	0.0000	1.140E-09	0.0000	1.191E-09	0.0000	0.000E+00	0.0000
Cm-243	1.783E-28	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.870E-04	0.0000	4.344E-07	0.0000	4.523E-08	0.0000	0.000E+00	0.0000
Cm-244	1.682E-25	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	6.039E-04	0.0000	9.174E-07	0.0000	9.428E-08	0.0000	0.000E+00	0.0000
Co-60	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Cs-134	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Cs-137	1.557E-26	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	5.520E-12	0.0000	4.955E-12	0.0000	8.800E-12	0.0000	0.000E+00	0.0000
Eu-152	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.704E-16	0.0000	1.299E-17	0.0000	3.214E-18	0.0000	0.000E+00	0.0000
Eu-154	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Eu-155	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Fe-55	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
H-3	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Nb-94	1.868E-15	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.852E-03	0.0001	9.576E-08	0.0000	1.404E-06	0.0000	0.000E+00	0.0000
Ni-59	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.163E-04	0.0000	4.018E-05	0.0000	1.153E-03	0.0000	0.000E+00	0.0000
Ni-63	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	8.575E-07	0.0000	1.089E-07	0.0000	3.125E-06	0.0000	0.000E+00	0.0000
Np-237	1.528E-19	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	8.398E-06	0.0000	6.129E-08	0.0000	2.329E-07	0.0000	0.000E+00	0.0000
Pm-147	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.838E-13	0.0000	1.060E-14	0.0000	2.622E-15	0.0000	0.000E+00	0.0000
Pu-238	6.003E-19	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	8.942E-05	0.0000	2.263E-07	0.0000	4.818E-07	0.0000	0.000E+00	0.0000
Pu-239	1.395E-25	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.353E-01	0.0077	3.573E-04	0.0000	3.670E-05	0.0000	0.000E+00	0.0000
Pu-240	6.412E-23	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.178E-01	0.0071	3.309E-04	0.0000	3.401E-05	0.0000	0.000E+00	0.0000
Pu-241	4.828E-25	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.722E-03	0.0001	1.362E-06	0.0000	6.279E-07	0.0000	0.000E+00	0.0000
Sb-125	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Sr-90	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.233E-14	0.0000	4.012E-15	0.0000	6.871E-15	0.0000	0.000E+00	0.0000
Tc-99	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Total	1.897E-15	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	7.429E-01	0.0243	9.683E-04	0.0000	1.555E-03	0.0001	0.000E+00	0.0000

Summary : RESRAD Default

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Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 1.000E+03 years

Water Dependent Pathways

Radio- Nuclide	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ag-108m	1.143E-02	0.0004	0.000E+00	0.0000	0.000E+00	0.0000	1.670E-03	0.0001	4.413E-04	0.0000	7.808E-03	0.0003	2.179E-02	0.0007
Am-241	1.748E+00	0.0571	0.000E+00	0.0000	0.000E+00	0.0000	2.550E-01	0.0083	1.272E-03	0.0000	4.051E-04	0.0000	2.055E+00	0.0671
Am-243	8.096E+00	0.2644	0.000E+00	0.0000	0.000E+00	0.0000	1.181E+00	0.0386	5.715E-03	0.0002	1.832E-03	0.0001	9.517E+00	0.3108
C-14	1.155E-07	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.093E-07	0.0000	6.361E-08	0.0000	5.442E-08	0.0000	4.486E-07	0.0000
Cm-243	1.040E-02	0.0003	0.000E+00	0.0000	0.000E+00	0.0000	1.517E-03	0.0000	1.375E-05	0.0000	1.034E-06	0.0000	1.222E-02	0.0004
Cm-244	2.220E-02	0.0007	0.000E+00	0.0000	0.000E+00	0.0000	3.239E-03	0.0001	2.946E-05	0.0000	2.189E-06	0.0000	2.608E-02	0.0009
Co-60	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Cs-134	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Cs-137	3.388E-11	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.986E-12	0.0000	2.658E-11	0.0000	3.412E-11	0.0000	1.188E-10	0.0000
Eu-152	3.330E-15	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.858E-16	0.0000	8.033E-17	0.0000	1.436E-17	0.0000	4.397E-15	0.0000
Eu-154	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Eu-155	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Fe-55	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
H-3	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Nb-94	4.503E-02	0.0015	0.000E+00	0.0000	0.000E+00	0.0000	6.599E-03	0.0002	9.781E-07	0.0000	1.036E-05	0.0000	5.550E-02	0.0018
Ni-59	1.129E-03	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.665E-04	0.0000	1.253E-04	0.0000	2.599E-03	0.0001	5.528E-03	0.0002
Ni-63	3.060E-06	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.513E-07	0.0000	3.398E-07	0.0000	7.045E-06	0.0000	1.499E-05	0.0000
Np-237	2.580E-04	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	3.765E-05	0.0000	2.496E-06	0.0000	6.548E-06	0.0000	3.134E-04	0.0000
Pm-147	3.361E-12	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	4.904E-13	0.0000	8.109E-14	0.0000	1.450E-14	0.0000	4.344E-12	0.0000
Pu-238	3.178E-03	0.0001	0.000E+00	0.0000	0.000E+00	0.0000	4.636E-04	0.0000	7.039E-06	0.0000	9.711E-06	0.0000	3.749E-03	0.0001
Pu-239	8.325E+00	0.2719	0.000E+00	0.0000	0.000E+00	0.0000	1.215E+00	0.0397	1.105E-02	0.0004	8.200E-04	0.0000	9.788E+00	0.3196
Pu-240	7.710E+00	0.2518	0.000E+00	0.0000	0.000E+00	0.0000	1.125E+00	0.0367	1.023E-02	0.0003	7.600E-04	0.0000	9.063E+00	0.2960
Pu-241	6.299E-02	0.0021	0.000E+00	0.0000	0.000E+00	0.0000	9.189E-03	0.0003	4.585E-05	0.0000	1.460E-05	0.0000	7.397E-02	0.0024
Sb-125	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Sr-90	1.677E-13	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	2.776E-14	0.0000	2.653E-14	0.0000	3.295E-14	0.0000	2.881E-13	0.0000
Tc-99	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Total	2.604E+01	0.8502	0.000E+00	0.0000	0.000E+00	0.0000	3.798E+00	0.1240	2.893E-02	0.0009	1.427E-02	0.0005	3.062E+01	1.0000

*Sum of all water independent and dependent pathways.

Summary : RESRAD Default

File : C:\USERS\DAVID FAUVER\DOCUMENTS\ZION\RESRAD\TSD\ROC SCREENING\ROC SCREENING INPUT RAD FILE\FINAL\ZION ROC SCREENING.RAD

Dose/Source Ratios Summed Over All Pathways
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Thread Fraction	DSR(j,t) At Time in Years (mrem/yr)/(pCi/g)								
			0.000E+00	1.000E+00	3.000E+00	1.000E+01	5.280E+01	1.000E+02	3.000E+02	1.000E+03	
Ag-108m+D	Ag-108m+D	1.000E+00	2.498E-01	2.491E-01	2.479E-01	2.437E-01	2.193E-01	1.953E-01	1.194E-01	2.179E-02	
Am-241	Am-241	1.000E+00	1.123E+01	1.121E+01	1.117E+01	1.104E+01	1.025E+01	9.451E+00	6.691E+00	2.047E+00	
Am-241	Np-237+D	1.000E+00	9.406E-04	1.576E-03	2.809E-03	6.758E-03	2.163E-02	2.745E-02	2.383E-02	7.178E-03	
Am-241	U-233	1.000E+00	2.045E-11	3.474E-11	6.754E-11	2.270E-10	2.280E-09	5.625E-09	2.000E-08	4.329E-08	
Am-241	Th-229+D	1.000E+00	5.819E-11	6.801E-11	8.708E-11	1.481E-10	3.765E-10	5.007E-10	4.805E-10	1.153E-09	
Am-241	ΣDSR(j)		1.123E+01	1.121E+01	1.118E+01	1.105E+01	1.027E+01	9.478E+00	6.715E+00	2.055E+00	
Am-243+D	Am-243+D	9.829E-01	1.101E+01	1.101E+01	1.101E+01	1.099E+01	1.089E+01	1.078E+01	1.032E+01	9.086E+00	
Am-243+D	Pu-239+D	9.829E-01	4.720E-04	7.868E-04	1.416E-03	3.614E-03	1.693E-02	3.137E-02	8.980E-02	2.684E-01	
Am-243+D	U-235+D	9.829E-01	1.136E-12	1.170E-12	1.448E-12	3.267E-12	5.008E-11	1.698E-10	1.437E-09	1.424E-08	
Am-243+D	Pa-231	9.829E-01	1.912E-11	1.913E-11	1.938E-11	1.965E-11	1.793E-11	1.941E-11	5.757E-11	1.690E-09	
Am-243+D	Ac-227+D	9.829E-01	2.047E-11	2.041E-11	2.106E-11	2.128E-11	2.023E-11	1.924E-11	3.673E-11	8.258E-10	
Am-243+D	ΣDSR(j)		1.101E+01	1.101E+01	1.101E+01	1.099E+01	1.091E+01	1.081E+01	1.041E+01	9.354E+00	
Am-243+D	Am-243+D	2.720E-03	3.049E-02	3.048E-02	3.047E-02	3.042E-02	3.014E-02	2.983E-02	2.857E-02	2.515E-02	
Am-243+D	Pu-239+D	2.720E-03	1.307E-06	2.178E-06	3.919E-06	1.000E-05	4.686E-05	8.683E-05	2.486E-04	7.429E-04	
Am-243+D	U-235+D	2.720E-03	1.067E-15	1.114E-15	1.466E-15	6.028E-15	1.356E-13	4.670E-13	3.974E-12	3.941E-11	
Am-243+D	Pa-231	2.720E-03	4.037E-14	4.022E-14	4.153E-14	4.197E-14	4.005E-14	3.796E-14	1.333E-13	4.655E-12	
Am-243+D	Ac-227+D1	2.720E-03	6.095E-14	6.101E-14	6.235E-14	6.306E-14	5.872E-14	5.799E-14	1.106E-13	2.292E-12	
Am-243+D	ΣDSR(j)		3.049E-02	3.048E-02	3.047E-02	3.043E-02	3.019E-02	2.992E-02	2.882E-02	2.589E-02	
Am-243+D	Am-243+D	1.375E-02	1.541E-01	1.541E-01	1.540E-01	1.538E-01	1.524E-01	1.508E-01	1.444E-01	1.271E-01	
Am-243+D	Pu-239+D	1.375E-02	6.605E-06	1.101E-05	1.981E-05	5.057E-05	2.369E-04	4.390E-04	1.257E-03	3.756E-03	
Am-243+D	U-235+D	1.375E-02	5.393E-15	5.635E-15	7.413E-15	3.049E-14	6.858E-13	2.361E-12	2.009E-11	1.992E-10	
Am-243+D	Pa-231	1.375E-02	2.041E-13	2.033E-13	2.100E-13	2.121E-13	2.025E-13	1.911E-13	6.574E-13	2.352E-11	
Am-243+D	Ac-227+D2	1.375E-02	2.844E-13	2.834E-13	2.926E-13	2.957E-13	2.821E-13	2.662E-13	4.924E-13	1.150E-11	
Am-243+D	ΣDSR(j)		1.541E-01	1.541E-01	1.540E-01	1.538E-01	1.526E-01	1.513E-01	1.457E-01	1.309E-01	
Am-243+D	Am-243+D	3.806E-05	4.266E-04	4.265E-04	4.263E-04	4.257E-04	4.217E-04	4.174E-04	3.997E-04	3.519E-04	
Am-243+D	Pu-239+D	3.806E-05	1.828E-08	3.047E-08	5.483E-08	1.400E-07	6.557E-07	1.215E-06	3.478E-06	1.039E-05	
Am-243+D	U-235+D	3.806E-05	3.559E-18	3.730E-18	6.400E-18	5.226E-17	1.865E-15	6.502E-15	5.558E-14	5.514E-13	
Am-243+D	Pa-231	3.806E-05	5.653E-16	5.632E-16	5.817E-16	5.878E-16	5.604E-16	5.346E-16	1.893E-15	6.516E-14	
Am-243+D	Ac-227+D3	3.806E-05	9.152E-16	9.160E-16	9.360E-16	9.467E-16	8.794E-16	8.773E-16	1.614E-15	3.206E-14	
Am-243+D	ΣDSR(j)		4.266E-04	4.265E-04	4.264E-04	4.258E-04	4.224E-04	4.186E-04	4.032E-04	3.623E-04	
Am-243+D	Am-243+D	8.252E-07	9.248E-06	9.246E-06	9.242E-06	9.228E-06	9.143E-06	9.050E-06	8.666E-06	7.629E-06	
Am-243+D	Pu-239+D	8.252E-07	3.964E-10	6.606E-10	1.189E-09	3.034E-09	1.422E-08	2.634E-08	7.540E-08	2.254E-07	
Am-243+D	U-235+D	8.252E-07	2.110E-18	2.105E-18	2.365E-18	4.026E-18	4.321E-17	1.437E-16	1.208E-15	1.196E-14	
Am-243+D	Pa-231	8.252E-07	1.240E-17	1.237E-17	1.274E-17	1.288E-17	1.219E-17	1.191E-17	4.250E-17	1.414E-15	
Am-243+D	Ac-227+D4	8.252E-07	1.677E-17	1.674E-17	1.719E-17	1.740E-17	1.637E-17	1.582E-17	3.060E-17	6.616E-16	
Am-243+D	ΣDSR(j)		9.249E-06	9.247E-06	9.243E-06	9.231E-06	9.157E-06	9.076E-06	8.741E-06	7.854E-06	

Summary : RESRAD Default

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Dose/Source Ratios Summed Over All Pathways
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Thread Fraction	DSR(j,t) At Time in Years (mrem/yr)/(pCi/g)							
			0.000E+00	1.000E+00	3.000E+00	1.000E+01	5.280E+01	1.000E+02	3.000E+02	1.000E+03
Am-243+D	Am-243+D	2.284E-09	2.560E-08	2.559E-08	2.558E-08	2.554E-08	2.530E-08	2.505E-08	2.398E-08	2.111E-08
Am-243+D	Pu-239+D	2.284E-09	1.097E-12	1.828E-12	3.290E-12	8.398E-12	3.934E-11	7.290E-11	2.087E-10	6.237E-10
Am-243+D	U-235+D	2.284E-09	2.068E-22	2.219E-22	3.766E-22	3.100E-21	1.119E-19	3.901E-19	3.335E-18	3.308E-17
Am-243+D	Pa-231	2.284E-09	3.876E-20	3.887E-20	3.937E-20	3.986E-20	3.644E-20	3.877E-20	1.273E-19	3.922E-18
Am-243+D	Ac-227+D5	2.284E-09	4.513E-20	4.497E-20	4.644E-20	4.692E-20	4.477E-20	4.222E-20	7.476E-20	1.822E-18
Am-243+D	ΣDSR(j)		2.560E-08	2.559E-08	2.558E-08	2.555E-08	2.534E-08	2.512E-08	2.419E-08	2.174E-08
Am-243+D	Am-243+D	5.901E-04	6.613E-03	6.612E-03	6.609E-03	6.599E-03	6.538E-03	6.471E-03	6.197E-03	5.455E-03
Am-243+D	Pu-239	5.901E-04	2.834E-07	4.724E-07	8.501E-07	2.170E-06	1.016E-05	1.884E-05	5.392E-05	1.611E-04
Am-243+D	U-235+D	5.901E-04	5.279E-17	5.851E-17	9.478E-17	7.931E-16	2.890E-14	1.008E-13	8.616E-13	8.548E-12
Am-243+D	Pa-231	5.901E-04	8.756E-15	8.725E-15	9.009E-15	9.102E-15	8.688E-15	8.207E-15	2.845E-14	1.009E-12
Am-243+D	Ac-227+D	5.901E-04	1.235E-14	1.230E-14	1.268E-14	1.282E-14	1.215E-14	1.161E-14	2.227E-14	4.960E-13
Am-243+D	ΣDSR(j)		6.613E-03	6.612E-03	6.610E-03	6.601E-03	6.548E-03	6.490E-03	6.251E-03	5.616E-03
Am-243+D	Am-243+D	1.633E-06	1.830E-05	1.830E-05	1.829E-05	1.826E-05	1.809E-05	1.791E-05	1.715E-05	1.510E-05
Am-243+D	Pu-239	1.633E-06	7.844E-10	1.307E-09	2.353E-09	6.005E-09	2.813E-08	5.213E-08	1.492E-07	4.460E-07
Am-243+D	U-235+D	1.633E-06	2.119E-18	2.165E-18	2.665E-18	5.696E-18	8.349E-17	2.824E-16	2.388E-15	2.366E-14
Am-243+D	Pa-231	1.633E-06	3.267E-17	3.282E-17	3.318E-17	3.365E-17	3.074E-17	3.331E-17	9.671E-17	2.810E-15
Am-243+D	Ac-227+D1	1.633E-06	3.675E-17	3.673E-17	3.758E-17	3.801E-17	3.538E-17	3.497E-17	6.659E-17	1.376E-15
Am-243+D	ΣDSR(j)		1.830E-05	1.830E-05	1.829E-05	1.827E-05	1.812E-05	1.796E-05	1.730E-05	1.554E-05
Am-243+D	Am-243+D	8.257E-06	9.253E-05	9.251E-05	9.247E-05	9.233E-05	9.148E-05	9.055E-05	8.671E-05	7.633E-05
Am-243+D	Pu-239	8.257E-06	3.966E-09	6.610E-09	1.189E-08	3.036E-08	1.422E-07	2.635E-07	7.544E-07	2.255E-06
Am-243+D	U-235+D	8.257E-06	1.694E-17	1.690E-17	1.948E-17	3.491E-17	4.282E-16	1.434E-15	1.208E-14	1.196E-13
Am-243+D	Pa-231	8.257E-06	1.273E-16	1.269E-16	1.300E-16	1.320E-16	1.231E-16	1.237E-16	4.364E-16	1.416E-14
Am-243+D	Ac-227+D2	8.257E-06	2.150E-16	2.153E-16	2.196E-16	2.222E-16	2.077E-16	2.066E-16	3.660E-16	6.969E-15
Am-243+D	ΣDSR(j)		9.254E-05	9.252E-05	9.248E-05	9.236E-05	9.162E-05	9.081E-05	8.746E-05	7.859E-05
Am-243+D	Am-243+D	2.285E-08	2.561E-07	2.560E-07	2.559E-07	2.555E-07	2.532E-07	2.506E-07	2.400E-07	2.113E-07
Am-243+D	Pu-239	2.285E-08	1.098E-11	1.829E-11	3.292E-11	8.403E-11	3.936E-10	7.294E-10	2.088E-09	6.241E-09
Am-243+D	U-235+D	2.285E-08	3.281E-20	3.352E-20	4.028E-20	8.311E-20	1.172E-18	3.955E-18	3.342E-17	3.311E-16
Am-243+D	Pa-231	2.285E-08	3.833E-19	3.843E-19	3.896E-19	3.954E-19	3.609E-19	3.829E-19	1.267E-18	3.923E-17
Am-243+D	Ac-227+D3	2.285E-08	5.458E-19	5.452E-19	5.572E-19	5.639E-19	5.229E-19	5.217E-19	9.644E-19	1.924E-17
Am-243+D	ΣDSR(j)		2.561E-07	2.561E-07	2.560E-07	2.556E-07	2.536E-07	2.513E-07	2.421E-07	2.175E-07
Am-243+D	Am-243+D	4.954E-10	5.552E-09	5.551E-09	5.549E-09	5.540E-09	5.489E-09	5.433E-09	5.203E-09	4.580E-09
Am-243+D	Pu-239	4.954E-10	2.380E-13	3.966E-13	7.137E-13	1.822E-12	8.534E-12	1.581E-11	4.527E-11	1.353E-10
Am-243+D	U-235+D	4.954E-10	2.880E-24	3.599E-24	5.900E-24	2.328E-22	2.370E-20	8.405E-20	7.229E-19	7.176E-18
Am-243+D	Pa-231	4.954E-10	1.022E-20	1.027E-20	1.040E-20	1.052E-20	9.641E-21	1.041E-20	2.963E-20	8.525E-19
Am-243+D	Ac-227+D4	4.954E-10	9.795E-21	9.760E-21	1.008E-20	1.018E-20	9.715E-21	9.163E-21	1.632E-20	3.954E-19
Am-243+D	ΣDSR(j)		5.553E-09	5.552E-09	5.549E-09	5.542E-09	5.498E-09	5.449E-09	5.248E-09	4.715E-09

Summary : RESRAD Default

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Dose/Source Ratios Summed Over All Pathways
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Thread Fraction	DSR(j,t) At Time in Years (mrem/yr)/(pCi/g)							
			0.000E+00	1.000E+00	3.000E+00	1.000E+01	5.280E+01	1.000E+02	3.000E+02	1.000E+03
Am-243+D	Am-243+D	1.371E-12	1.537E-11	1.536E-11	1.536E-11	1.533E-11	1.519E-11	1.504E-11	1.440E-11	1.268E-11
Am-243+D	Pu-239	1.371E-12	6.586E-16	1.098E-15	1.975E-15	5.042E-15	2.362E-14	4.377E-14	1.253E-13	3.745E-13
Am-243+D	U-235+D	1.371E-12	2.001E-24	2.043E-24	2.468E-24	5.020E-24	7.034E-23	2.373E-22	2.005E-21	1.987E-20
Am-243+D	Pa-231	1.371E-12	2.036E-23	2.028E-23	2.094E-23	2.116E-23	2.019E-23	1.920E-23	6.780E-23	2.347E-21
Am-243+D	Ac-227+D5	1.371E-12	2.890E-23	2.889E-23	2.954E-23	2.991E-23	2.785E-23	2.741E-23	5.258E-23	1.101E-21
Am-243+D	ΣDSR(j)		1.537E-11	1.536E-11	1.536E-11	1.534E-11	1.522E-11	1.508E-11	1.452E-11	1.305E-11
C-14	C-14	1.000E+00	2.706E+00	2.664E+00	2.582E+00	2.315E+00	1.186E+00	5.672E-01	2.492E-02	4.486E-07
Cm-243	Cm-243	2.359E-03	3.598E-03	3.513E-03	3.350E-03	2.835E-03	1.022E-03	3.316E-04	2.815E-06	1.788E-13
Cm-243	Am-243+D	2.359E-03	3.643E-06	6.071E-06	1.076E-05	2.549E-05	7.696E-05	9.584E-05	1.009E-04	8.883E-05
Cm-243	Pu-239+D	2.359E-03	8.164E-11	2.238E-10	7.114E-10	4.396E-09	7.228E-08	1.904E-07	7.544E-07	2.510E-06
Cm-243	U-235+D	2.359E-03	1.413E-17	1.383E-17	1.462E-17	1.611E-17	1.695E-16	8.095E-16	1.066E-14	1.278E-13
Cm-243	Pa-231	2.359E-03	3.238E-17	3.480E-17	4.112E-17	5.781E-17	1.098E-16	1.245E-16	3.603E-16	1.444E-14
Cm-243	Ac-227+D	2.359E-03	5.419E-17	5.805E-17	6.544E-17	8.928E-17	1.576E-16	1.816E-16	3.174E-16	7.124E-15
Cm-243	ΣDSR(j)		3.602E-03	3.520E-03	3.361E-03	2.860E-03	1.099E-03	4.276E-04	1.045E-04	9.134E-05
Cm-243	Cm-243	6.529E-06	9.959E-06	9.724E-06	9.271E-06	7.846E-06	2.828E-06	9.176E-07	7.792E-09	4.948E-16
Cm-243	Am-243+D	6.529E-06	1.008E-08	1.680E-08	2.977E-08	7.056E-08	2.130E-07	2.653E-07	2.792E-07	2.459E-07
Cm-243	Pu-239+D	6.529E-06	2.299E-13	6.233E-13	1.973E-12	1.217E-11	2.000E-10	5.270E-10	2.088E-09	6.947E-09
Cm-243	U-235+D	6.529E-06	4.700E-23	5.663E-23	7.849E-23	2.683E-22	3.833E-19	2.156E-18	2.942E-17	3.536E-16
Cm-243	Pa-231	6.529E-06	2.938E-19	3.052E-19	3.162E-19	3.652E-19	4.763E-19	5.575E-19	1.298E-18	4.024E-17
Cm-243	Ac-227+D1	6.529E-06	2.257E-19	2.377E-19	2.580E-19	3.242E-19	5.044E-19	5.796E-19	9.664E-19	1.977E-17
Cm-243	ΣDSR(j)		9.969E-06	9.741E-06	9.301E-06	7.917E-06	3.041E-06	1.183E-06	2.891E-07	2.528E-07
Cm-243	Cm-243	3.301E-05	5.035E-05	4.916E-05	4.687E-05	3.967E-05	1.430E-05	4.639E-06	3.939E-08	2.501E-15
Cm-243	Am-243+D	3.301E-05	5.097E-08	8.494E-08	1.505E-07	3.567E-07	1.077E-06	1.341E-06	1.412E-06	1.243E-06
Cm-243	Pu-239+D	3.301E-05	1.099E-12	3.088E-12	9.910E-12	6.146E-11	1.011E-09	2.664E-09	1.056E-08	3.512E-08
Cm-243	U-235+D	3.301E-05	3.998E-20	3.806E-20	3.661E-20	5.006E-20	2.149E-18	1.111E-17	1.489E-16	1.788E-15
Cm-243	Pa-231	3.301E-05	8.116E-19	8.588E-19	9.154E-19	1.158E-18	1.760E-18	2.129E-18	5.877E-18	2.029E-16
Cm-243	Ac-227+D2	3.301E-05	6.253E-19	6.732E-19	7.951E-19	1.122E-18	2.142E-18	2.409E-18	3.966E-18	9.896E-17
Cm-243	ΣDSR(j)		5.040E-05	4.925E-05	4.702E-05	4.002E-05	1.537E-05	5.983E-06	1.462E-06	1.278E-06
Cm-243	Cm-243	9.135E-08	1.393E-07	1.361E-07	1.297E-07	1.098E-07	3.957E-08	1.284E-08	1.090E-10	6.923E-18
Cm-243	Am-243+D	9.135E-08	1.411E-10	2.351E-10	4.166E-10	9.873E-10	2.980E-09	3.712E-09	3.907E-09	3.440E-09
Cm-243	Pu-239+D	9.135E-08	3.135E-15	8.639E-15	2.752E-14	1.702E-13	2.799E-12	7.374E-12	2.922E-11	9.720E-11
Cm-243	U-235+D	9.135E-08	7.099E-23	6.521E-23	6.191E-23	8.788E-23	5.833E-21	3.063E-20	4.120E-19	4.948E-18
Cm-243	Pa-231	9.135E-08	1.461E-21	1.560E-21	1.779E-21	2.442E-21	4.314E-21	5.048E-21	1.492E-20	5.602E-19
Cm-243	Ac-227+D3	9.135E-08	1.878E-21	2.013E-21	2.334E-21	3.247E-21	5.969E-21	6.808E-21	1.182E-20	2.746E-19
Cm-243	ΣDSR(j)		1.395E-07	1.363E-07	1.301E-07	1.108E-07	4.255E-08	1.656E-08	4.045E-09	3.537E-09

Summary : RESRAD Default

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Dose/Source Ratios Summed Over All Pathways
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Thread Fraction	DSR(j,t) At Time in Years (mrem/yr)/(pCi/g)							
			0.000E+00	1.000E+00	3.000E+00	1.000E+01	5.280E+01	1.000E+02	3.000E+02	1.000E+03
Cm-243	Cm-243	1.981E-09	3.021E-09	2.950E-09	2.813E-09	2.380E-09	8.578E-10	2.784E-10	2.364E-12	1.501E-19
Cm-243	Am-243+D	1.981E-09	3.058E-12	5.097E-12	9.032E-12	2.140E-11	6.461E-11	8.047E-11	8.470E-11	7.458E-11
Cm-243	Pu-239+D	1.981E-09	6.949E-17	1.888E-16	5.982E-16	3.691E-15	6.069E-14	1.599E-13	6.334E-13	2.107E-12
Cm-243	U-235+D	1.981E-09	3.171E-25	3.001E-25	3.194E-25	5.593E-25	1.211E-22	6.588E-22	8.928E-21	1.073E-19
Cm-243	Pa-231	1.981E-09	4.030E-23	4.296E-23	4.629E-23	6.108E-23	9.865E-23	1.185E-22	3.403E-22	1.216E-20
Cm-243	Ac-227+D4	1.981E-09	4.077E-23	4.380E-23	4.995E-23	6.882E-23	1.247E-22	1.428E-22	2.493E-22	5.693E-21
Cm-243	ΣDSR(j)		3.024E-09	2.955E-09	2.822E-09	2.402E-09	9.225E-10	3.590E-10	8.770E-11	7.669E-11
Cm-243	Cm-243	5.481E-12	8.361E-12	8.164E-12	7.784E-12	6.587E-12	2.374E-12	7.704E-13	6.542E-15	4.154E-22
Cm-243	Am-243+D	5.481E-12	8.464E-15	1.411E-14	2.500E-14	5.924E-14	1.788E-13	2.227E-13	2.344E-13	2.064E-13
Cm-243	Pu-239+D	5.481E-12	1.935E-19	5.238E-19	1.657E-18	1.022E-17	1.680E-16	4.425E-16	1.753E-15	5.833E-15
Cm-243	U-235+D	5.481E-12	1.873E-27	1.819E-27	2.008E-27	2.735E-27	3.414E-25	1.830E-24	2.472E-23	2.969E-22
Cm-243	Pa-231	5.481E-12	1.927E-25	2.017E-25	2.112E-25	2.522E-25	3.463E-25	4.141E-25	1.039E-24	3.374E-23
Cm-243	Ac-227+D5	5.481E-12	1.452E-25	1.533E-25	1.695E-25	2.229E-25	3.693E-25	4.273E-25	7.362E-25	1.580E-23
Cm-243	ΣDSR(j)		8.370E-12	8.178E-12	7.809E-12	6.647E-12	2.553E-12	9.936E-13	2.427E-13	2.123E-13
Cm-243	Cm-243	1.416E-06	2.160E-06	2.109E-06	2.011E-06	1.702E-06	6.134E-07	1.991E-07	1.690E-09	1.073E-16
Cm-243	Am-243+D	1.416E-06	2.187E-09	3.645E-09	6.459E-09	1.531E-08	4.620E-08	5.754E-08	6.057E-08	5.333E-08
Cm-243	Pu-239	1.416E-06	5.128E-14	1.364E-13	4.287E-13	2.639E-12	4.339E-11	1.143E-10	4.529E-10	1.507E-09
Cm-243	U-235+D	1.416E-06	2.154E-21	2.070E-21	2.055E-21	2.693E-21	9.321E-20	4.776E-19	6.391E-18	7.671E-17
Cm-243	Pa-231	1.416E-06	5.995E-20	6.240E-20	6.478E-20	7.544E-20	9.967E-20	1.171E-19	2.782E-19	8.727E-18
Cm-243	Ac-227+D	1.416E-06	2.693E-20	2.900E-20	3.424E-20	4.827E-20	9.216E-20	1.036E-19	1.672E-19	4.256E-18
Cm-243	ΣDSR(j)		2.162E-06	2.113E-06	2.018E-06	1.717E-06	6.596E-07	2.567E-07	6.271E-08	5.484E-08
Cm-243	Cm-243	3.920E-09	5.979E-09	5.838E-09	5.566E-09	4.710E-09	1.698E-09	5.509E-10	4.678E-12	2.970E-19
Cm-243	Am-243+D	3.920E-09	6.052E-12	1.009E-11	1.788E-11	4.236E-11	1.279E-10	1.593E-10	1.676E-10	1.476E-10
Cm-243	Pu-239	3.920E-09	1.405E-16	3.760E-16	1.185E-15	7.303E-15	1.201E-13	3.164E-13	1.254E-12	4.171E-12
Cm-243	U-235+D	3.920E-09	4.045E-23	3.954E-23	4.065E-23	4.315E-23	2.980E-22	1.361E-21	1.772E-20	2.123E-19
Cm-243	Pa-231	3.920E-09	5.505E-23	5.918E-23	6.950E-23	9.766E-23	1.828E-22	2.087E-22	6.122E-22	2.401E-20
Cm-243	Ac-227+D1	3.920E-09	7.632E-23	8.231E-23	9.639E-23	1.351E-22	2.550E-22	2.887E-22	4.937E-22	1.180E-20
Cm-243	ΣDSR(j)		5.985E-09	5.848E-09	5.584E-09	4.753E-09	1.826E-09	7.105E-10	1.736E-10	1.518E-10
Cm-243	Cm-243	1.982E-08	3.023E-08	2.951E-08	2.814E-08	2.381E-08	8.583E-09	2.785E-09	2.365E-11	1.502E-18
Cm-243	Am-243+D	1.982E-08	3.060E-11	5.100E-11	9.037E-11	2.142E-10	6.465E-10	8.051E-10	8.475E-10	7.462E-10
Cm-243	Pu-239	1.982E-08	6.975E-16	1.888E-15	5.979E-15	3.691E-14	6.071E-13	1.599E-12	6.337E-12	2.109E-11
Cm-243	U-235+D	1.982E-08	4.909E-24	4.732E-24	5.162E-24	8.621E-24	1.225E-21	6.605E-21	8.934E-20	1.073E-18
Cm-243	Pa-231	1.982E-08	2.711E-22	2.918E-22	3.445E-22	4.850E-22	9.225E-22	1.044E-21	3.011E-21	1.213E-19
Cm-243	Ac-227+D2	1.982E-08	4.394E-22	4.715E-22	5.349E-22	7.341E-22	1.314E-21	1.508E-21	2.634E-21	5.964E-20
Cm-243	ΣDSR(j)		3.026E-08	2.957E-08	2.823E-08	2.403E-08	9.230E-09	3.592E-09	8.774E-10	7.673E-10
Cm-243	Cm-243	5.484E-11	8.366E-11	8.169E-11	7.788E-11	6.591E-11	2.375E-11	7.708E-12	6.546E-14	4.156E-21
Cm-243	Am-243+D	5.484E-11	8.469E-14	1.411E-13	2.501E-13	5.927E-13	1.789E-12	2.228E-12	2.345E-12	2.065E-12
Cm-243	Pu-239	5.484E-11	1.954E-18	5.250E-18	1.657E-17	1.022E-16	1.680E-15	4.427E-15	1.754E-14	5.836E-14
Cm-243	U-235+D	5.484E-11	1.880E-27	1.942E-27	2.381E-27	5.313E-27	3.283E-24	1.817E-23	2.472E-22	2.970E-21
Cm-243	Pa-231	5.484E-11	9.986E-25	1.073E-24	1.177E-24	1.580E-24	2.666E-24	3.161E-24	9.227E-24	3.366E-22
Cm-243	Ac-227+D3	5.484E-11	1.080E-24	1.158E-24	1.354E-24	1.898E-24	3.567E-24	4.041E-24	6.937E-24	1.647E-22
Cm-243	ΣDSR(j)		8.374E-11	8.183E-11	7.813E-11	6.650E-11	2.555E-11	9.941E-12	2.428E-12	2.124E-12

Summary : RESRAD Default

File : C:\USERS\DAVID FAUVER\DOCUMENTS\ZION\RESRAD\TSD\ROC SCREENING\ROC SCREENING INPUT RAD FILE\FINAL\ZION ROC SCREENING.RAD

Dose/Source Ratios Summed Over All Pathways
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Thread Fraction	DSR(j,t) At Time in Years (mrem/yr)/(pCi/g)							
			0.000E+00	1.000E+00	3.000E+00	1.000E+01	5.280E+01	1.000E+02	3.000E+02	1.000E+03
Cm-243	Cm-243	1.189E-12	1.814E-12	1.771E-12	1.689E-12	1.429E-12	5.150E-13	1.671E-13	1.419E-15	9.011E-23
Cm-243	Am-243+D	1.189E-12	1.836E-15	3.060E-15	5.423E-15	1.285E-14	3.879E-14	4.831E-14	5.085E-14	4.478E-14
Cm-243	Pu-239	1.189E-12	4.109E-20	1.125E-19	3.580E-19	2.214E-18	3.643E-17	9.597E-17	3.803E-16	1.265E-15
Cm-243	U-235+D	1.189E-12	4.415E-27	4.320E-27	4.580E-27	5.251E-27	8.238E-26	4.050E-25	5.369E-24	6.441E-23
Cm-243	Pa-231	1.189E-12	1.625E-26	1.746E-26	2.067E-26	2.908E-26	5.535E-26	6.258E-26	1.803E-25	7.279E-24
Cm-243	Ac-227+D4	1.189E-12	2.623E-26	2.809E-26	3.160E-26	4.308E-26	7.588E-26	8.746E-26	1.529E-25	3.421E-24
Cm-243	ΣDSR(j)		1.816E-12	1.774E-12	1.694E-12	1.442E-12	5.538E-13	2.155E-13	5.265E-14	4.604E-14
Cm-243	Cm-243	3.291E-15	5.020E-15	4.901E-15	4.673E-15	3.955E-15	1.425E-15	4.625E-16	3.928E-18	2.494E-25
Cm-243	Am-243+D	3.291E-15	5.082E-18	8.469E-18	1.501E-17	3.556E-17	1.074E-16	1.337E-16	1.407E-16	1.239E-16
Cm-243	Pu-239	3.291E-15	1.136E-22	3.113E-22	9.906E-22	6.127E-21	1.008E-19	2.656E-19	1.052E-18	3.502E-18
Cm-243	U-235+D	3.291E-15	2.676E-30	2.428E-30	2.343E-30	3.302E-30	2.105E-28	1.104E-27	1.484E-26	1.782E-25
Cm-243	Pa-231	3.291E-15	8.411E-29	8.802E-29	9.400E-29	1.184E-28	1.779E-28	2.151E-28	5.890E-28	2.023E-26
Cm-243	Ac-227+D5	3.291E-15	7.449E-29	7.982E-29	8.946E-29	1.213E-28	2.112E-28	2.440E-28	4.259E-28	9.469E-27
Cm-243	ΣDSR(j)		5.025E-15	4.910E-15	4.688E-15	3.990E-15	1.533E-15	5.965E-16	1.457E-16	1.274E-16
Cm-243	Cm-243	9.805E-01	1.496E+00	1.460E+00	1.392E+00	1.178E+00	4.247E-01	1.378E-01	1.170E-03	7.431E-11
Cm-243	Pu-239+D	9.805E-01	4.602E-04	7.670E-04	1.359E-03	3.222E-03	9.743E-03	1.216E-02	1.296E-02	1.192E-02
Cm-243	U-235+D	9.805E-01	4.413E-14	1.103E-13	3.378E-13	2.060E-12	3.387E-11	8.930E-11	3.553E-10	1.195E-09
Cm-243	Pa-231	9.805E-01	2.601E-14	2.697E-14	2.862E-14	3.632E-14	2.300E-13	1.009E-12	1.291E-11	2.017E-10
Cm-243	Ac-227+D	9.805E-01	1.469E-14	1.583E-14	1.847E-14	2.596E-14	8.306E-14	3.636E-13	6.638E-12	1.006E-10
Cm-243	ΣDSR(j)		1.496E+00	1.461E+00	1.394E+00	1.182E+00	4.344E-01	1.500E-01	1.413E-02	1.192E-02
Cm-243	Cm-243	2.714E-03	4.140E-03	4.042E-03	3.854E-03	3.261E-03	1.175E-03	3.814E-04	3.239E-06	2.057E-13
Cm-243	Pu-239+D	2.714E-03	1.274E-06	2.123E-06	3.762E-06	8.917E-06	2.697E-05	3.366E-05	3.586E-05	3.299E-05
Cm-243	U-235+D	2.714E-03	1.157E-16	2.988E-16	9.283E-16	5.695E-15	9.372E-14	2.472E-13	9.834E-13	3.309E-12
Cm-243	Pa-231	2.714E-03	2.814E-17	3.060E-17	3.589E-17	5.179E-17	5.715E-16	2.728E-15	3.568E-14	5.581E-13
Cm-243	Ac-227+D1	2.714E-03	4.253E-17	4.549E-17	5.267E-17	7.342E-17	2.339E-16	1.010E-15	1.837E-14	2.782E-13
Cm-243	ΣDSR(j)		4.141E-03	4.044E-03	3.858E-03	3.270E-03	1.202E-03	4.151E-04	3.910E-05	3.299E-05
Cm-243	Cm-243	1.372E-02	2.093E-02	2.043E-02	1.948E-02	1.649E-02	5.942E-03	1.928E-03	1.637E-05	1.040E-12
Cm-243	Pu-239+D	1.372E-02	6.439E-06	1.073E-05	1.902E-05	4.508E-05	1.363E-04	1.702E-04	1.813E-04	1.668E-04
Cm-243	U-235+D	1.372E-02	5.754E-16	1.501E-15	4.684E-15	2.878E-14	4.738E-13	1.250E-12	4.972E-12	1.673E-11
Cm-243	Pa-231	1.372E-02	1.630E-16	1.732E-16	1.987E-16	2.878E-16	2.960E-15	1.386E-14	1.805E-13	2.821E-12
Cm-243	Ac-227+D2	1.372E-02	2.642E-16	2.806E-16	3.150E-16	4.229E-16	1.257E-15	5.171E-15	9.276E-14	1.404E-12
Cm-243	ΣDSR(j)		2.093E-02	2.045E-02	1.950E-02	1.653E-02	6.079E-03	2.099E-03	1.977E-04	1.668E-04
Cm-243	Cm-243	3.797E-05	5.792E-05	5.656E-05	5.392E-05	4.563E-05	1.645E-05	5.337E-06	4.532E-08	2.878E-15
Cm-243	Pu-239+D	3.797E-05	1.782E-08	2.970E-08	5.264E-08	1.248E-07	3.773E-07	4.710E-07	5.017E-07	4.616E-07
Cm-243	U-235+D	3.797E-05	1.255E-18	3.817E-18	1.263E-17	7.932E-17	1.311E-15	3.458E-15	1.376E-14	4.629E-14
Cm-243	Pa-231	3.797E-05	6.470E-19	6.827E-19	7.464E-19	1.035E-18	8.526E-18	3.870E-17	4.998E-16	7.809E-15
Cm-243	Ac-227+D3	3.797E-05	6.670E-19	7.101E-19	8.062E-19	1.104E-18	3.397E-18	1.423E-17	2.566E-16	3.885E-15
Cm-243	ΣDSR(j)		5.794E-05	5.659E-05	5.398E-05	4.576E-05	1.682E-05	5.808E-06	5.470E-07	4.616E-07

Summary : RESRAD Default

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Dose/Source Ratios Summed Over All Pathways
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Thread Fraction	DSR(j,t) At Time in Years (mrem/yr)/(pCi/g)								
			0.000E+00	1.000E+00	3.000E+00	1.000E+01	5.280E+01	1.000E+02	3.000E+02	1.000E+03	
Cm-243	Cm-243	8.232E-07	1.256E-06	1.226E-06	1.169E-06	9.894E-07	3.566E-07	1.157E-07	9.825E-10	6.239E-17	
Cm-243	Pu-239+D	8.232E-07	3.863E-10	6.439E-10	1.141E-09	2.705E-09	8.180E-09	1.021E-08	1.088E-08	1.001E-08	
Cm-243	U-235+D	8.232E-07	3.103E-20	8.658E-20	2.776E-19	1.723E-18	2.843E-17	7.497E-17	2.983E-16	1.004E-15	
Cm-243	Pa-231	8.232E-07	1.629E-20	1.706E-20	1.843E-20	2.484E-20	1.874E-19	8.417E-19	1.084E-17	1.693E-16	
Cm-243	Ac-227+D4	8.232E-07	1.116E-20	1.203E-20	1.422E-20	2.015E-20	5.999E-20	2.844E-19	5.306E-18	8.045E-17	
Cm-243	ΣDSR(j)		1.256E-06	1.227E-06	1.170E-06	9.921E-07	3.647E-07	1.259E-07	1.186E-08	1.001E-08	
Cm-243	Cm-243	2.278E-09	3.475E-09	3.394E-09	3.236E-09	2.738E-09	9.868E-10	3.202E-10	2.719E-12	1.727E-19	
Cm-243	Pu-239+D	2.278E-09	1.069E-12	1.782E-12	3.159E-12	7.487E-12	2.264E-11	2.826E-11	3.011E-11	2.770E-11	
Cm-243	U-235+D	2.278E-09	8.494E-23	2.387E-22	7.672E-22	4.769E-21	7.868E-20	2.075E-19	8.257E-19	2.778E-18	
Cm-243	Pa-231	2.278E-09	2.329E-23	2.522E-23	2.972E-23	4.267E-23	4.750E-22	2.286E-21	2.995E-20	4.685E-19	
Cm-243	Ac-227+D5	2.278E-09	3.785E-23	4.032E-23	4.588E-23	6.285E-23	1.941E-22	8.151E-22	1.471E-20	2.227E-19	
Cm-243	ΣDSR(j)		3.477E-09	3.395E-09	3.239E-09	2.746E-09	1.009E-09	3.485E-10	3.282E-11	2.770E-11	
Cm-243	Cm-243	5.887E-04	8.980E-04	8.768E-04	8.360E-04	7.075E-04	2.550E-04	8.274E-05	7.026E-07	4.461E-14	
Cm-243	Pu-239	5.887E-04	2.763E-07	4.605E-07	8.161E-07	1.934E-06	5.849E-06	7.301E-06	7.778E-06	7.156E-06	
Cm-243	U-235+D	5.887E-04	2.108E-17	6.080E-17	1.974E-16	1.231E-15	2.033E-14	5.361E-14	2.133E-13	7.177E-13	
Cm-243	Pa-231	5.887E-04	7.708E-18	8.205E-18	9.266E-18	1.327E-17	1.286E-16	5.965E-16	7.745E-15	1.211E-13	
Cm-243	Ac-227+D	5.887E-04	8.471E-18	9.183E-18	1.080E-17	1.526E-17	4.862E-17	2.170E-16	3.984E-15	6.040E-14	
Cm-243	ΣDSR(j)		8.982E-04	8.773E-04	8.368E-04	7.094E-04	2.608E-04	9.004E-05	8.481E-06	7.156E-06	
Cm-243	Cm-243	1.629E-06	2.485E-06	2.427E-06	2.314E-06	1.958E-06	7.057E-07	2.290E-07	1.944E-09	1.235E-16	
Cm-243	Pu-239	1.629E-06	7.646E-10	1.274E-09	2.259E-09	5.354E-09	1.619E-08	2.021E-08	2.153E-08	1.980E-08	
Cm-243	U-235+D	1.629E-06	6.562E-20	1.756E-19	5.535E-19	3.415E-18	5.626E-17	1.484E-16	5.904E-16	1.986E-15	
Cm-243	Pa-231	1.629E-06	1.656E-20	1.787E-20	2.113E-20	3.007E-20	3.306E-19	1.626E-18	2.141E-17	3.350E-16	
Cm-243	Ac-227+D1	1.629E-06	3.635E-20	3.829E-20	4.243E-20	5.519E-20	1.547E-19	6.204E-19	1.104E-17	1.670E-16	
Cm-243	ΣDSR(j)		2.486E-06	2.428E-06	2.316E-06	1.963E-06	7.218E-07	2.492E-07	2.347E-08	1.980E-08	
Cm-243	Cm-243	8.237E-06	1.256E-05	1.227E-05	1.170E-05	9.899E-06	3.568E-06	1.158E-06	9.831E-09	6.242E-16	
Cm-243	Pu-239	8.237E-06	3.865E-09	6.443E-09	1.142E-08	2.707E-08	8.184E-08	1.022E-07	1.088E-07	1.001E-07	
Cm-243	U-235+D	8.237E-06	2.951E-19	8.509E-19	2.762E-18	1.723E-17	2.844E-16	7.501E-16	2.985E-15	1.004E-14	
Cm-243	Pa-231	8.237E-06	2.313E-19	2.394E-19	2.533E-19	3.179E-19	1.944E-18	8.490E-18	1.085E-16	1.694E-15	
Cm-243	Ac-227+D2	8.237E-06	1.374E-19	1.461E-19	1.677E-19	2.313E-19	7.248E-19	3.075E-18	5.566E-17	8.426E-16	
Cm-243	ΣDSR(j)		1.257E-05	1.227E-05	1.171E-05	9.926E-06	3.649E-06	1.260E-06	1.187E-07	1.001E-07	
Cm-243	Cm-243	2.280E-08	3.477E-08	3.395E-08	3.237E-08	2.740E-08	9.874E-09	3.204E-09	2.721E-11	1.728E-18	
Cm-243	Pu-239	2.280E-08	1.070E-11	1.783E-11	3.160E-11	7.491E-11	2.265E-10	2.827E-10	3.012E-10	2.771E-10	
Cm-243	U-235+D	2.280E-08	8.979E-22	2.436E-21	7.725E-21	4.776E-20	7.872E-19	2.076E-18	8.261E-18	2.779E-17	
Cm-243	Pa-231	2.280E-08	4.657E-22	4.879E-22	5.253E-22	7.035E-22	5.206E-21	2.332E-20	3.001E-19	4.688E-18	
Cm-243	Ac-227+D3	2.280E-08	3.622E-22	3.869E-22	4.468E-22	6.216E-22	1.972E-21	8.476E-21	1.540E-19	2.332E-18	
Cm-243	ΣDSR(j)		3.478E-08	3.397E-08	3.240E-08	2.747E-08	1.010E-08	3.487E-09	3.284E-10	2.771E-10	

Summary : RESRAD Default

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Dose/Source Ratios Summed Over All Pathways
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Thread Fraction	DSR(j,t) At Time in Years (mrem/yr)/(pCi/g)								
			0.000E+00	1.000E+00	3.000E+00	1.000E+01	5.280E+01	1.000E+02	3.000E+02	1.000E+03	
Cm-243	Cm-243	4.942E-10	7.539E-10	7.361E-10	7.019E-10	5.940E-10	2.141E-10	6.947E-11	5.899E-13	3.746E-20	
Cm-243	Pu-239	4.942E-10	2.319E-13	3.866E-13	6.851E-13	1.624E-12	4.911E-12	6.130E-12	6.530E-12	6.008E-12	
Cm-243	U-235+D	4.942E-10	1.920E-23	5.255E-23	1.672E-22	1.035E-21	1.707E-20	4.501E-20	1.791E-19	6.026E-19	
Cm-243	Pa-231	4.942E-10	1.033E-23	1.081E-23	1.163E-23	1.550E-23	1.131E-22	5.059E-22	6.507E-21	1.016E-19	
Cm-243	Ac-227+D4	4.942E-10	6.726E-24	7.264E-24	8.566E-24	1.213E-23	3.816E-23	1.729E-22	3.187E-21	4.830E-20	
Cm-243	ΣDSR(j)		7.541E-10	7.365E-10	7.025E-10	5.956E-10	2.190E-10	7.560E-11	7.120E-12	6.008E-12	
Cm-243	Cm-243	1.368E-12	2.087E-12	2.037E-12	1.942E-12	1.644E-12	5.925E-13	1.923E-13	1.633E-15	1.037E-22	
Cm-243	Pu-239	1.368E-12	6.419E-16	1.070E-15	1.896E-15	4.495E-15	1.359E-14	1.697E-14	1.807E-14	1.663E-14	
Cm-243	U-235+D	1.368E-12	5.642E-26	1.487E-25	4.660E-25	2.868E-24	4.724E-23	1.246E-22	4.957E-22	1.668E-21	
Cm-243	Pa-231	1.368E-12	1.741E-26	1.846E-26	2.095E-26	3.006E-26	2.977E-25	1.385E-24	1.799E-23	2.813E-22	
Cm-243	Ac-227+D5	1.368E-12	1.859E-26	2.008E-26	2.368E-26	3.355E-26	1.056E-25	4.785E-25	8.822E-24	1.337E-22	
Cm-243	ΣDSR(j)		2.087E-12	2.038E-12	1.944E-12	1.648E-12	6.061E-13	2.092E-13	1.971E-14	1.663E-14	
Cm-244	Cm-244	1.371E-06	1.671E-06	1.608E-06	1.490E-06	1.139E-06	2.209E-07	3.620E-08	1.700E-11	4.289E-23	
Cm-244	Cm-244	5.750E-08	7.008E-08	6.745E-08	6.247E-08	4.777E-08	9.266E-09	1.518E-09	7.128E-13	1.799E-24	
Cm-244	Pu-240	5.750E-08	9.947E-11	1.646E-10	2.877E-10	6.509E-10	1.592E-09	1.765E-09	1.722E-09	1.500E-09	
Cm-244	ΣDSR(j)		7.018E-08	6.761E-08	6.276E-08	4.842E-08	1.086E-08	3.284E-09	1.723E-09	1.500E-09	
Cm-244	Cm-244	1.000E+00	1.219E+00	1.173E+00	1.086E+00	8.308E-01	1.611E-01	2.641E-02	1.240E-05	3.128E-17	
Cm-244	Pu-240	1.000E+00	1.730E-03	2.863E-03	5.004E-03	1.132E-02	2.769E-02	3.070E-02	2.995E-02	2.608E-02	
Cm-244	U-236	1.000E+00	4.362E-12	1.181E-11	3.726E-11	2.239E-10	3.188E-09	7.633E-09	2.663E-08	8.350E-08	
Cm-244	Th-232	1.000E+00	1.144E-22	1.459E-22	2.987E-22	6.643E-21	6.963E-19	3.347E-18	3.925E-17	6.422E-16	
Cm-244	Ra-228+D	1.000E+00	3.265E-22	3.000E-22	3.329E-22	1.299E-21	4.443E-19	2.578E-18	3.479E-17	5.009E-15	
Cm-244	Th-228+D	1.000E+00	4.663E-24	4.581E-24	4.931E-24	3.478E-23	1.216E-19	7.658E-19	1.087E-17	2.144E-16	
Cm-244	ΣDSR(j)		1.221E+00	1.176E+00	1.091E+00	8.421E-01	1.888E-01	5.711E-02	2.996E-02	2.608E-02	
Co-60	Co-60	1.000E+00	1.122E-01	9.840E-02	7.563E-02	3.011E-02	1.078E-04	2.163E-07	8.040E-19	0.000E+00	
Cs-134	Cs-134	1.000E+00	1.935E+00	1.382E+00	7.056E-01	6.708E-02	3.782E-08	4.859E-15	1.121E-44	0.000E+00	
Cs-137+D	Cs-137+D	1.000E+00	1.536E+00	1.500E+00	1.431E+00	1.215E+00	4.450E-01	1.471E-01	1.349E-03	1.188E-10	
Eu-152	Eu-152	7.210E-01	2.739E-02	2.601E-02	2.347E-02	1.637E-02	1.812E-03	1.599E-04	5.451E-09	1.284E-24	
Eu-152	Eu-152	2.790E-01	1.060E-02	1.007E-02	9.082E-03	6.336E-03	7.011E-04	6.187E-05	2.109E-09	4.969E-25	
Eu-152	Gd-152	2.790E-01	3.789E-16	5.625E-16	8.998E-16	1.841E-15	3.770E-15	3.984E-15	3.985E-15	4.397E-15	
Eu-152	Sm-148	2.790E-01	7.049E-30	6.696E-30	6.042E-30	4.216E-30	4.687E-31	4.357E-32	2.416E-33	4.639E-29	
Eu-152	Nd-144	2.790E-01	4.760E-38	4.759E-38	4.758E-38	4.754E-38	4.726E-38	4.695E-38	4.568E-38	4.147E-38	
Eu-152	ΣDSR(j)		1.060E-02	1.007E-02	9.082E-03	6.336E-03	7.011E-04	6.187E-05	2.109E-09	4.397E-15	
Eu-154	Eu-154	1.000E+00	5.517E-02	5.088E-02	4.328E-02	2.457E-02	7.705E-04	1.693E-05	1.593E-12	4.153E-37	
Eu-155	Eu-155	1.000E+00	8.562E-03	7.400E-03	5.528E-03	1.992E-03	3.881E-06	3.980E-09	8.603E-22	0.000E+00	

Summary : RESRAD Default

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Dose/Source Ratios Summed Over All Pathways
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Thread Fraction	DSR(j,t) At Time in Years (mrem/yr)/(pCi/g)							
			0.000E+00	1.000E+00	3.000E+00	1.000E+01	5.280E+01	1.000E+02	3.000E+02	1.000E+03
Fe-55	Fe-55	1.000E+00	1.480E-04	1.149E-04	6.925E-05	1.176E-05	2.306E-10	1.484E-15	1.492E-37	0.000E+00
H-3	H-3	1.000E+00	2.169E-01	1.844E-01	1.333E-01	4.281E-02	4.123E-05	1.944E-08	1.563E-22	0.000E+00
Nb-94	Nb-94	1.000E+00	8.656E-02	8.651E-02	8.642E-02	8.611E-02	8.423E-02	8.220E-02	7.415E-02	5.550E-02
Ni-59	Ni-59	1.000E+00	5.746E-03	5.744E-03	5.740E-03	5.725E-03	5.638E-03	5.544E-03	5.162E-03	5.528E-03
Ni-63	Ni-63	1.000E+00	1.573E-02	1.562E-02	1.539E-02	1.463E-02	1.071E-02	7.601E-03	1.774E-03	1.499E-05
Np-237+D	Np-237+D	1.000E+00	2.026E+03	1.990E+03	1.919E+03	1.691E+03	7.801E+02	3.324E+02	8.945E+00	2.865E-05
Np-237+D	U-233	1.000E+00	4.154E-05	4.708E-05	5.669E-05	8.769E-05	2.106E-04	2.696E-04	3.032E-04	2.742E-04
Np-237+D	Th-229+D	1.000E+00	3.157E-05	3.101E-05	2.991E-05	2.637E-05	1.230E-05	6.012E-06	2.231E-06	1.052E-05
Np-237+D	ΣDSR(j)		2.026E+03	1.990E+03	1.919E+03	1.691E+03	7.801E+02	3.324E+02	8.946E+00	3.134E-04
Pm-147	Pm-147	1.000E+00	5.569E-03	4.275E-03	2.519E-03	3.956E-04	4.806E-09	1.824E-14	1.957E-37	0.000E+00
Pm-147	Sm-147	1.000E+00	1.629E-12	2.197E-12	2.959E-12	3.881E-12	4.048E-12	4.043E-12	4.022E-12	4.344E-12
Pm-147	ΣDSR(j)		5.569E-03	4.275E-03	2.519E-03	3.956E-04	4.810E-09	4.061E-12	4.022E-12	4.344E-12
Pu-238	Pu-238	1.850E-09	1.856E-08	1.841E-08	1.812E-08	1.713E-08	1.215E-08	8.316E-09	1.670E-09	6.198E-12
Pu-238	Pu-238	9.996E-01	1.003E+01	9.949E+00	9.791E+00	9.256E+00	6.564E+00	4.494E+00	9.021E-01	3.349E-03
Pu-238	U-234	9.996E-01	5.327E-06	8.880E-06	1.590E-05	3.958E-05	1.581E-04	2.481E-04	3.953E-04	3.933E-04
Pu-238	Th-230	9.996E-01	1.511E-11	2.117E-11	3.702E-11	1.316E-10	1.864E-09	5.547E-09	3.100E-08	1.962E-07
Pu-238	Ra-226+D	9.996E-01	2.310E-11	2.316E-11	2.331E-11	2.409E-11	8.533E-11	3.799E-10	6.530E-09	1.268E-06
Pu-238	Pb-210+D	9.996E-01	9.083E-11	9.105E-11	9.156E-11	9.306E-11	2.111E-10	1.086E-09	2.890E-08	9.606E-07
Pu-238	Po-210	9.996E-01	4.015E-11	3.998E-11	4.028E-11	4.178E-11	5.076E-10	4.310E-09	1.272E-07	2.459E-06
Pu-238	ΣDSR(j)		1.003E+01	9.949E+00	9.791E+00	9.256E+00	6.564E+00	4.494E+00	9.025E-01	3.747E-03
Pu-238	Pu-238	1.319E-06	1.324E-05	1.313E-05	1.292E-05	1.222E-05	8.664E-06	5.931E-06	1.191E-06	4.421E-09
Pu-238	U-234	1.319E-06	7.032E-12	1.172E-11	2.099E-11	5.224E-11	2.087E-10	3.276E-10	5.218E-10	5.191E-10
Pu-238	Th-230	1.319E-06	1.997E-17	2.797E-17	4.889E-17	1.738E-16	2.461E-15	7.322E-15	4.091E-14	2.590E-13
Pu-238	Ra-226+D	1.319E-06	3.061E-17	3.069E-17	3.089E-17	3.203E-17	1.129E-16	5.017E-16	8.620E-15	1.674E-12
Pu-238	Pb-210+D1	1.319E-06	1.189E-16	1.192E-16	1.199E-16	1.216E-16	2.771E-16	1.432E-15	3.814E-14	1.261E-12
Pu-238	ΣDSR(j)		1.324E-05	1.313E-05	1.292E-05	1.222E-05	8.665E-06	5.932E-06	1.191E-06	4.943E-09
Pu-238	Pu-238	1.899E-08	1.906E-07	1.890E-07	1.860E-07	1.759E-07	1.247E-07	8.538E-08	1.714E-08	6.363E-11
Pu-238	U-234	1.899E-08	1.012E-13	1.687E-13	3.021E-13	7.520E-13	3.004E-12	4.715E-12	7.511E-12	7.472E-12
Pu-238	Th-230	1.899E-08	2.877E-19	4.028E-19	7.039E-19	2.502E-18	3.542E-17	1.054E-16	5.889E-16	3.728E-15
Pu-238	Ra-226+D	1.899E-08	4.452E-19	4.463E-19	4.494E-19	4.662E-19	1.630E-18	7.227E-18	1.241E-16	2.410E-14
Pu-238	Pb-210+D2	1.899E-08	1.711E-18	1.715E-18	1.725E-18	1.750E-18	3.985E-18	2.059E-17	5.484E-16	1.813E-14
Pu-238	ΣDSR(j)		1.906E-07	1.890E-07	1.860E-07	1.759E-07	1.247E-07	8.538E-08	1.715E-08	7.115E-11

Summary : RESRAD Default

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Dose/Source Ratios Summed Over All Pathways
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Thread Fraction	DSR(j,t) At Time in Years (mrem/yr)/(pCi/g)								
			0.000E+00	1.000E+00	3.000E+00	1.000E+01	5.280E+01	1.000E+02	3.000E+02	1.000E+03	
Pu-238	Pu-238	2.100E-04	2.107E-03	2.090E-03	2.056E-03	1.944E-03	1.379E-03	9.438E-04	1.895E-04	7.035E-07	
Pu-238	U-234	2.100E-04	1.119E-09	1.865E-09	3.339E-09	8.313E-09	3.321E-08	5.212E-08	8.304E-08	8.260E-08	
Pu-238	Th-230	2.100E-04	3.182E-15	4.454E-15	7.783E-15	2.765E-14	3.916E-13	1.165E-12	6.510E-12	4.122E-11	
Pu-238	Ra-226+D1	2.100E-04	4.865E-15	4.878E-15	4.908E-15	5.086E-15	1.795E-14	7.981E-14	1.372E-12	2.664E-10	
Pu-238	Pb-210+D	2.100E-04	1.905E-14	1.910E-14	1.920E-14	1.951E-14	4.431E-14	2.282E-13	6.071E-12	2.018E-10	
Pu-238	Po-210	2.100E-04	8.072E-15	8.063E-15	8.118E-15	8.449E-15	1.063E-13	9.050E-13	2.671E-11	5.165E-10	
Pu-238	ΣDSR(j)		2.107E-03	2.090E-03	2.056E-03	1.944E-03	1.379E-03	9.439E-04	1.896E-04	7.871E-07	
Pu-238	Pu-238	2.771E-10	2.781E-09	2.759E-09	2.715E-09	2.566E-09	1.820E-09	1.246E-09	2.501E-10	9.286E-13	
Pu-238	U-234	2.771E-10	1.477E-15	2.462E-15	4.408E-15	1.097E-14	4.383E-14	6.880E-14	1.096E-13	1.090E-13	
Pu-238	Th-230	2.771E-10	4.192E-21	5.871E-21	1.027E-20	3.650E-20	5.169E-19	1.538E-18	8.594E-18	5.441E-17	
Pu-238	Ra-226+D1	2.771E-10	6.397E-21	6.415E-21	6.451E-21	6.623E-21	2.360E-20	1.053E-19	1.810E-18	3.517E-16	
Pu-238	Pb-210+D1	2.771E-10	2.507E-20	2.514E-20	2.527E-20	2.566E-20	5.836E-20	3.010E-19	8.012E-18	2.649E-16	
Pu-238	ΣDSR(j)		2.781E-09	2.759E-09	2.715E-09	2.566E-09	1.820E-09	1.246E-09	2.502E-10	1.038E-12	
Pu-238	Pu-238	3.989E-12	4.003E-11	3.971E-11	3.907E-11	3.694E-11	2.620E-11	1.793E-11	3.600E-12	1.337E-14	
Pu-238	U-234	3.989E-12	2.126E-17	3.544E-17	6.345E-17	1.580E-16	6.309E-16	9.903E-16	1.578E-15	1.569E-15	
Pu-238	Th-230	3.989E-12	6.034E-23	8.451E-23	1.478E-22	5.253E-22	7.440E-21	2.214E-20	1.237E-19	7.831E-19	
Pu-238	Ra-226+D1	3.989E-12	9.344E-23	9.368E-23	9.433E-23	9.785E-23	3.422E-22	1.518E-21	2.606E-20	5.062E-18	
Pu-238	Pb-210+D2	3.989E-12	3.615E-22	3.624E-22	3.644E-22	3.703E-22	8.407E-22	4.328E-21	1.152E-19	3.808E-18	
Pu-238	ΣDSR(j)		4.003E-11	3.971E-11	3.907E-11	3.694E-11	2.620E-11	1.793E-11	3.602E-12	1.494E-14	
Pu-238	Pu-238	1.998E-04	2.004E-03	1.988E-03	1.957E-03	1.850E-03	1.312E-03	8.980E-04	1.803E-04	6.693E-07	
Pu-238	U-234	1.998E-04	1.065E-09	1.774E-09	3.177E-09	7.909E-09	3.159E-08	4.959E-08	7.900E-08	7.859E-08	
Pu-238	Th-230	1.998E-04	3.033E-15	4.244E-15	7.411E-15	2.632E-14	3.726E-13	1.108E-12	6.194E-12	3.922E-11	
Pu-238	Ra-226+D2	1.998E-04	4.641E-15	4.654E-15	4.684E-15	4.859E-15	1.709E-14	7.592E-14	1.304E-12	2.533E-10	
Pu-238	Pb-210+D	1.998E-04	1.812E-14	1.816E-14	1.827E-14	1.856E-14	4.215E-14	2.171E-13	5.776E-12	1.920E-10	
Pu-238	Po-210	1.998E-04	7.574E-15	7.561E-15	7.607E-15	7.921E-15	1.010E-13	8.609E-13	2.541E-11	4.914E-10	
Pu-238	ΣDSR(j)		2.004E-03	1.988E-03	1.957E-03	1.850E-03	1.312E-03	8.980E-04	1.804E-04	7.489E-07	
Pu-238	Pu-238	2.637E-10	2.646E-09	2.625E-09	2.583E-09	2.442E-09	1.732E-09	1.185E-09	2.380E-10	8.835E-13	
Pu-238	U-234	2.637E-10	1.405E-15	2.342E-15	4.194E-15	1.044E-14	4.170E-14	6.546E-14	1.043E-13	1.037E-13	
Pu-238	Th-230	2.637E-10	3.999E-21	5.597E-21	9.778E-21	3.473E-20	4.918E-19	1.463E-18	8.176E-18	5.177E-17	
Pu-238	Ra-226+D2	2.637E-10	6.137E-21	6.154E-21	6.195E-21	6.428E-21	2.257E-20	1.002E-19	1.722E-18	3.344E-16	
Pu-238	Pb-210+D1	2.637E-10	2.369E-20	2.375E-20	2.388E-20	2.420E-20	5.473E-20	2.856E-19	7.622E-18	2.520E-16	
Pu-238	ΣDSR(j)		2.646E-09	2.625E-09	2.583E-09	2.442E-09	1.732E-09	1.185E-09	2.381E-10	9.878E-13	
Pu-238	Pu-238	3.795E-12	3.808E-11	3.778E-11	3.718E-11	3.514E-11	2.492E-11	1.706E-11	3.425E-12	1.272E-14	
Pu-238	U-234	3.795E-12	2.023E-17	3.372E-17	6.037E-17	1.503E-16	6.003E-16	9.422E-16	1.501E-15	1.493E-15	
Pu-238	Th-230	3.795E-12	5.726E-23	8.025E-23	1.404E-22	4.997E-22	7.079E-21	2.106E-20	1.177E-19	7.451E-19	
Pu-238	Ra-226+D2	3.795E-12	8.818E-23	8.842E-23	8.901E-23	9.234E-23	3.247E-22	1.443E-21	2.478E-20	4.813E-18	
Pu-238	Pb-210+D2	3.795E-12	3.436E-22	3.444E-22	3.463E-22	3.518E-22	7.993E-22	4.118E-21	1.096E-19	3.623E-18	
Pu-238	ΣDSR(j)		3.808E-11	3.778E-11	3.718E-11	3.514E-11	2.492E-11	1.706E-11	3.427E-12	1.422E-14	

Summary : RESRAD Default

File : C:\USERS\DAVID FAUVER\DOCUMENTS\ZION\RESRAD\TSD\ROC SCREENING\ROC SCREENING INPUT RAD FILE\FINAL\ZION ROC SCREENING.RAD

Dose/Source Ratios Summed Over All Pathways
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Thread Fraction	DSR(j,t) At Time in Years (mrem/yr)/(pCi/g)							
			0.000E+00	1.000E+00	3.000E+00	1.000E+01	5.280E+01	1.000E+02	3.000E+02	1.000E+03
Pu-238	Pu-238	4.196E-08	4.210E-07	4.176E-07	4.110E-07	3.885E-07	2.755E-07	1.886E-07	3.787E-08	1.406E-10
Pu-238	U-234	4.196E-08	2.236E-13	3.727E-13	6.674E-13	1.661E-12	6.636E-12	1.042E-11	1.659E-11	1.651E-11
Pu-238	Th-230	4.196E-08	6.368E-19	8.910E-19	1.556E-18	5.528E-18	7.826E-17	2.328E-16	1.301E-15	8.237E-15
Pu-238	Ra-226+D3	4.196E-08	9.747E-19	9.773E-19	9.838E-19	1.021E-18	3.589E-18	1.595E-17	2.740E-16	5.321E-14
Pu-238	Pb-210+D	4.196E-08	3.844E-18	3.852E-18	3.874E-18	3.936E-18	8.895E-18	4.563E-17	1.213E-15	4.032E-14
Pu-238	Po-210	4.196E-08	1.549E-18	1.545E-18	1.557E-18	1.615E-18	2.115E-17	1.808E-16	5.338E-15	1.032E-13
Pu-238	ΣDSR(j)		4.210E-07	4.176E-07	4.110E-07	3.885E-07	2.755E-07	1.886E-07	3.788E-08	1.573E-10
Pu-238	Pu-238	5.538E-14	5.557E-13	5.513E-13	5.425E-13	5.128E-13	3.637E-13	2.490E-13	4.998E-14	1.856E-16
Pu-238	U-234	5.538E-14	2.952E-19	4.920E-19	8.809E-19	2.193E-18	8.760E-18	1.375E-17	2.190E-17	2.179E-17
Pu-238	Th-230	5.538E-14	8.438E-25	1.179E-24	2.058E-24	7.300E-24	1.033E-22	3.073E-22	1.717E-21	1.087E-20
Pu-238	Ra-226+D3	5.538E-14	1.278E-24	1.281E-24	1.288E-24	1.319E-24	4.709E-24	2.102E-23	3.616E-22	7.024E-20
Pu-238	Pb-210+D1	5.538E-14	4.975E-24	4.989E-24	5.017E-24	5.083E-24	1.154E-23	6.002E-23	1.601E-21	5.294E-20
Pu-238	ΣDSR(j)		5.557E-13	5.513E-13	5.425E-13	5.128E-13	3.637E-13	2.490E-13	5.001E-14	2.075E-16
Pu-238	Pu-238	7.972E-16	7.999E-15	7.935E-15	7.808E-15	7.382E-15	5.235E-15	3.584E-15	7.195E-16	2.671E-18
Pu-238	U-234	7.972E-16	4.249E-21	7.082E-21	1.268E-20	3.156E-20	1.261E-19	1.979E-19	3.153E-19	3.136E-19
Pu-238	Th-230	7.972E-16	1.203E-26	1.686E-26	2.950E-26	1.050E-25	1.487E-24	4.424E-24	2.472E-23	1.565E-22
Pu-238	Ra-226+D3	7.972E-16	1.863E-26	1.868E-26	1.881E-26	1.951E-26	6.831E-26	3.031E-25	5.206E-24	1.011E-21
Pu-238	Pb-210+D2	7.972E-16	7.304E-26	7.319E-26	7.361E-26	7.480E-26	1.689E-25	8.659E-25	2.302E-23	7.611E-22
Pu-238	ΣDSR(j)		7.999E-15	7.935E-15	7.808E-15	7.382E-15	5.235E-15	3.584E-15	7.198E-16	2.987E-18
Pu-238	Pu-238	2.000E-07	2.007E-06	1.991E-06	1.959E-06	1.852E-06	1.313E-06	8.991E-07	1.805E-07	6.701E-10
Pu-238	U-234	2.000E-07	1.066E-12	1.777E-12	3.181E-12	7.919E-12	3.163E-11	4.965E-11	7.910E-11	7.869E-11
Pu-238	Th-230	2.000E-07	3.047E-18	4.259E-18	7.430E-18	2.636E-17	3.730E-16	1.110E-15	6.202E-15	3.926E-14
Pu-238	Ra-226+D4	2.000E-07	4.628E-18	4.640E-18	4.670E-18	4.836E-18	1.708E-17	7.597E-17	1.306E-15	2.536E-13
Pu-238	Pb-210+D	2.000E-07	1.844E-17	1.848E-17	1.859E-17	1.888E-17	4.252E-17	2.176E-16	5.783E-15	1.922E-13
Pu-238	Po-210	2.000E-07	6.682E-18	6.702E-18	6.742E-18	6.843E-18	9.896E-17	8.598E-16	2.544E-14	4.920E-13
Pu-238	ΣDSR(j)		2.007E-06	1.991E-06	1.959E-06	1.852E-06	1.313E-06	8.991E-07	1.806E-07	7.498E-10
Pu-238	Pu-238	2.640E-13	2.649E-12	2.628E-12	2.586E-12	2.445E-12	1.734E-12	1.187E-12	2.383E-13	8.845E-16
Pu-238	U-234	2.640E-13	1.407E-18	2.345E-18	4.199E-18	1.045E-17	4.175E-17	6.554E-17	1.044E-16	1.039E-16
Pu-238	Th-230	2.640E-13	4.007E-24	5.607E-24	9.793E-24	3.478E-23	4.924E-22	1.465E-21	8.186E-21	5.183E-20
Pu-238	Ra-226+D4	2.640E-13	6.146E-24	6.162E-24	6.204E-24	6.437E-24	2.259E-23	1.003E-22	1.723E-21	3.347E-19
Pu-238	Pb-210+D1	2.640E-13	2.372E-23	2.379E-23	2.392E-23	2.424E-23	5.515E-23	2.862E-22	7.631E-21	2.523E-19
Pu-238	ΣDSR(j)		2.649E-12	2.628E-12	2.586E-12	2.445E-12	1.734E-12	1.187E-12	2.384E-13	9.890E-16
Pu-238	Pu-238	3.800E-15	3.813E-14	3.782E-14	3.722E-14	3.519E-14	2.495E-14	1.708E-14	3.429E-15	1.273E-17
Pu-238	U-234	3.800E-15	2.025E-20	3.376E-20	6.044E-20	1.505E-19	6.010E-19	9.433E-19	1.503E-18	1.495E-18
Pu-238	Th-230	3.800E-15	5.750E-26	8.052E-26	1.408E-25	5.004E-25	7.087E-24	2.109E-23	1.178E-22	7.460E-22
Pu-238	Ra-226+D4	3.800E-15	8.849E-26	8.873E-26	8.933E-26	9.269E-26	3.253E-25	1.444E-24	2.481E-23	4.818E-21
Pu-238	Pb-210+D2	3.800E-15	3.412E-25	3.421E-25	3.440E-25	3.487E-25	7.941E-25	4.117E-24	1.097E-22	3.628E-21
Pu-238	ΣDSR(j)		3.813E-14	3.782E-14	3.722E-14	3.519E-14	2.495E-14	1.708E-14	3.431E-15	1.424E-17

Summary : RESRAD Default

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Dose/Source Ratios Summed Over All Pathways
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Thread Fraction	DSR(j,t) At Time in Years (mrem/yr)/(pCi/g)								
			0.000E+00	1.000E+00	3.000E+00	1.000E+01	5.280E+01	1.000E+02	3.000E+02	1.000E+03	
Pu-239	Pu-239	5.901E-04	6.575E-03	6.574E-03	6.572E-03	6.565E-03	6.522E-03	6.475E-03	6.279E-03	5.775E-03	
Pu-239	U-235+D	5.901E-04	1.034E-12	1.730E-12	3.122E-12	7.987E-12	3.749E-11	6.955E-11	2.000E-10	6.045E-10	
Pu-239	Pa-231	5.901E-04	2.332E-14	2.346E-14	2.485E-14	3.538E-14	2.961E-13	9.771E-13	8.226E-12	1.069E-10	
Pu-239	Ac-227+D	5.901E-04	3.340E-14	3.330E-14	3.418E-14	3.542E-14	1.021E-13	3.802E-13	4.343E-12	5.326E-11	
Pu-239	ΣDSR(j)		6.575E-03	6.574E-03	6.572E-03	6.565E-03	6.522E-03	6.475E-03	6.279E-03	5.775E-03	
Pu-239	Pu-239	1.633E-06	1.820E-05	1.820E-05	1.819E-05	1.817E-05	1.805E-05	1.792E-05	1.738E-05	1.598E-05	
Pu-239	U-235+D	1.633E-06	2.862E-15	4.789E-15	8.641E-15	2.211E-14	1.038E-13	1.925E-13	5.535E-13	1.673E-12	
Pu-239	Pa-231	1.633E-06	7.458E-17	7.565E-17	8.070E-17	1.112E-16	8.327E-16	2.717E-15	2.278E-14	2.958E-13	
Pu-239	Ac-227+D1	1.633E-06	8.421E-17	8.395E-17	8.652E-17	8.765E-17	2.653E-16	1.035E-15	1.200E-14	1.472E-13	
Pu-239	ΣDSR(j)		1.820E-05	1.820E-05	1.819E-05	1.817E-05	1.805E-05	1.792E-05	1.738E-05	1.598E-05	
Pu-239	Pu-239	8.257E-06	9.201E-05	9.199E-05	9.196E-05	9.187E-05	9.126E-05	9.060E-05	8.786E-05	8.081E-05	
Pu-239	U-235+D	8.257E-06	1.447E-14	2.421E-14	4.369E-14	1.118E-13	5.246E-13	9.732E-13	2.799E-12	8.458E-12	
Pu-239	Pa-231	8.257E-06	3.895E-16	3.947E-16	4.202E-16	5.745E-16	4.223E-15	1.375E-14	1.152E-13	1.496E-12	
Pu-239	Ac-227+D2	8.257E-06	4.307E-16	4.296E-16	4.422E-16	4.521E-16	1.371E-15	5.253E-15	6.057E-14	7.429E-13	
Pu-239	ΣDSR(j)		9.201E-05	9.199E-05	9.196E-05	9.187E-05	9.126E-05	9.060E-05	8.786E-05	8.081E-05	
Pu-239	Pu-239	2.285E-08	2.546E-07	2.546E-07	2.545E-07	2.543E-07	2.526E-07	2.508E-07	2.432E-07	2.237E-07	
Pu-239	U-235+D	2.285E-08	4.005E-17	6.701E-17	1.209E-16	3.093E-16	1.452E-15	2.694E-15	7.745E-15	2.341E-14	
Pu-239	Pa-231	2.285E-08	8.455E-19	8.452E-19	8.776E-19	1.163E-18	1.126E-17	3.764E-17	3.184E-16	4.139E-15	
Pu-239	Ac-227+D3	2.285E-08	1.375E-18	1.373E-18	1.406E-18	1.455E-18	4.029E-18	1.477E-17	1.679E-16	2.056E-15	
Pu-239	ΣDSR(j)		2.546E-07	2.546E-07	2.545E-07	2.543E-07	2.526E-07	2.508E-07	2.432E-07	2.237E-07	
Pu-239	Pu-239	4.954E-10	5.521E-09	5.520E-09	5.518E-09	5.512E-09	5.476E-09	5.436E-09	5.272E-09	4.849E-09	
Pu-239	U-235+D	4.954E-10	8.682E-19	1.453E-18	2.621E-18	6.706E-18	3.148E-17	5.840E-17	1.679E-16	5.075E-16	
Pu-239	Pa-231	4.954E-10	2.345E-20	2.377E-20	2.530E-20	3.455E-20	2.534E-19	8.252E-19	6.911E-18	8.975E-17	
Pu-239	Ac-227+D4	4.954E-10	2.723E-20	2.719E-20	2.787E-20	2.887E-20	8.220E-20	3.047E-19	3.476E-18	4.259E-17	
Pu-239	ΣDSR(j)		5.521E-09	5.520E-09	5.518E-09	5.512E-09	5.476E-09	5.436E-09	5.272E-09	4.849E-09	
Pu-239	Pu-239	1.371E-12	1.528E-11	1.528E-11	1.527E-11	1.526E-11	1.516E-11	1.505E-11	1.459E-11	1.342E-11	
Pu-239	U-235+D	1.371E-12	2.403E-21	4.021E-21	7.255E-21	1.856E-20	8.712E-20	1.616E-19	4.647E-19	1.405E-18	
Pu-239	Pa-231	1.371E-12	6.413E-23	6.499E-23	6.921E-23	9.484E-23	7.007E-22	2.283E-21	1.913E-20	2.484E-19	
Pu-239	Ac-227+D5	1.371E-12	7.235E-23	7.222E-23	7.409E-23	7.671E-23	2.242E-22	8.401E-22	9.616E-21	1.179E-19	
Pu-239	ΣDSR(j)		1.528E-11	1.528E-11	1.527E-11	1.526E-11	1.516E-11	1.505E-11	1.459E-11	1.342E-11	
Pu-239+D	Pu-239+D	9.829E-01	1.095E+01	1.095E+01	1.095E+01	1.094E+01	1.086E+01	1.079E+01	1.046E+01	9.620E+00	
Pu-239+D	U-235+D	9.829E-01	1.722E-09	2.882E-09	5.201E-09	1.330E-08	6.245E-08	1.159E-07	3.331E-07	1.007E-06	
Pu-239+D	Pa-231	9.829E-01	3.726E-11	3.746E-11	3.946E-11	5.546E-11	4.898E-10	1.624E-09	1.370E-08	1.780E-07	
Pu-239+D	Ac-227+D	9.829E-01	5.385E-11	5.378E-11	5.519E-11	5.710E-11	1.681E-10	6.313E-10	7.232E-09	8.871E-08	
Pu-239+D	ΣDSR(j)		1.095E+01	1.095E+01	1.095E+01	1.094E+01	1.086E+01	1.079E+01	1.046E+01	9.620E+00	
Pu-239+D	Pu-239+D	2.720E-03	3.031E-02	3.031E-02	3.030E-02	3.027E-02	3.007E-02	2.985E-02	2.895E-02	2.663E-02	
Pu-239+D	U-235+D	2.720E-03	4.767E-12	7.977E-12	1.439E-11	3.682E-11	1.728E-10	3.206E-10	9.220E-10	2.787E-09	
Pu-239+D	Pa-231	2.720E-03	1.075E-13	1.082E-13	1.146E-13	1.631E-13	1.365E-12	4.505E-12	3.792E-11	4.927E-10	
Pu-239+D	Ac-227+D1	2.720E-03	1.614E-13	1.612E-13	1.651E-13	1.709E-13	4.780E-13	1.759E-12	2.002E-11	2.453E-10	
Pu-239+D	ΣDSR(j)		3.031E-02	3.031E-02	3.030E-02	3.027E-02	3.007E-02	2.985E-02	2.895E-02	2.663E-02	

Summary : RESRAD Default

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Dose/Source Ratios Summed Over All Pathways
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Thread Fraction	DSR(j,t) At Time in Years (mrem/yr)/(pCi/g)							
			0.000E+00	1.000E+00	3.000E+00	1.000E+01	5.280E+01	1.000E+02	3.000E+02	1.000E+03
Pu-239+D	Pu-239+D	1.375E-02	1.533E-01	1.532E-01	1.532E-01	1.530E-01	1.520E-01	1.509E-01	1.464E-01	1.346E-01
Pu-239+D	U-235+D	1.375E-02	2.410E-11	4.033E-11	7.277E-11	1.862E-10	8.738E-10	1.621E-09	4.661E-09	1.409E-08
Pu-239+D	Pa-231	1.375E-02	5.771E-13	5.843E-13	6.241E-13	8.788E-13	6.956E-12	2.283E-11	1.918E-10	2.491E-09
Pu-239+D	Ac-227+D2	1.375E-02	7.674E-13	7.658E-13	7.859E-13	8.138E-13	2.363E-12	8.829E-12	1.010E-10	1.238E-09
Pu-239+D	ΣDSR(j)		1.533E-01	1.532E-01	1.532E-01	1.530E-01	1.520E-01	1.509E-01	1.464E-01	1.346E-01
Pu-239+D	Pu-239+D	3.806E-05	4.241E-04	4.241E-04	4.240E-04	4.235E-04	4.207E-04	4.177E-04	4.050E-04	3.726E-04
Pu-239+D	U-235+D	3.806E-05	6.671E-14	1.116E-13	2.014E-13	5.152E-13	2.418E-12	4.487E-12	1.290E-11	3.899E-11
Pu-239+D	Pa-231	3.806E-05	1.747E-15	1.772E-15	1.889E-15	2.600E-15	1.942E-14	6.334E-14	5.309E-13	6.895E-12
Pu-239+D	Ac-227+D3	3.806E-05	1.959E-15	1.954E-15	2.013E-15	2.041E-15	6.190E-15	2.409E-14	2.791E-13	3.425E-12
Pu-239+D	ΣDSR(j)		4.241E-04	4.241E-04	4.240E-04	4.235E-04	4.207E-04	4.177E-04	4.050E-04	3.726E-04
Pu-239+D	Pu-239+D	8.252E-07	9.196E-06	9.194E-06	9.192E-06	9.182E-06	9.121E-06	9.055E-06	8.782E-06	8.077E-06
Pu-239+D	U-235+D	8.252E-07	1.446E-15	2.420E-15	4.366E-15	1.117E-14	5.243E-14	9.727E-14	2.797E-13	8.453E-13
Pu-239+D	Pa-231	8.252E-07	3.051E-17	3.045E-17	3.149E-17	3.960E-17	4.043E-16	1.357E-15	1.149E-14	1.495E-13
Pu-239+D	Ac-227+D4	8.252E-07	4.054E-17	4.040E-17	4.165E-17	4.209E-17	1.242E-16	4.949E-16	5.777E-15	7.093E-14
Pu-239+D	ΣDSR(j)		9.196E-06	9.194E-06	9.192E-06	9.182E-06	9.121E-06	9.055E-06	8.782E-06	8.077E-06
Pu-239+D	Pu-239+D	2.284E-09	2.545E-08	2.545E-08	2.544E-08	2.541E-08	2.524E-08	2.506E-08	2.430E-08	2.235E-08
Pu-239+D	U-235+D	2.284E-09	4.003E-18	6.697E-18	1.208E-17	3.091E-17	1.451E-16	2.692E-16	7.741E-16	2.340E-15
Pu-239+D	Pa-231	2.284E-09	9.418E-20	9.514E-20	1.013E-19	1.434E-19	1.153E-18	3.788E-18	3.185E-17	4.137E-16
Pu-239+D	Ac-227+D5	2.284E-09	1.122E-19	1.118E-19	1.153E-19	1.166E-19	3.465E-19	1.373E-18	1.599E-17	1.963E-16
Pu-239+D	ΣDSR(j)		2.545E-08	2.545E-08	2.544E-08	2.541E-08	2.524E-08	2.506E-08	2.430E-08	2.235E-08
Pu-240	Pu-240	5.750E-08	6.407E-07	6.405E-07	6.402E-07	6.392E-07	6.329E-07	6.260E-07	5.979E-07	5.211E-07
Pu-240	Pu-240	1.000E+00	1.114E+01	1.114E+01	1.114E+01	1.112E+01	1.101E+01	1.089E+01	1.040E+01	9.063E+00
Pu-240	U-236	1.000E+00	5.301E-08	8.869E-08	1.600E-07	4.093E-07	1.918E-06	3.551E-06	1.013E-05	2.982E-05
Pu-240	Th-232	1.000E+00	2.680E-19	7.145E-19	3.200E-18	2.441E-17	5.476E-16	1.895E-15	1.624E-14	2.383E-13
Pu-240	Ra-228+D	1.000E+00	2.973E-19	3.559E-19	6.521E-19	7.707E-18	3.792E-16	1.511E-15	1.446E-14	1.904E-12
Pu-240	Th-228+D	1.000E+00	2.408E-20	2.508E-20	4.046E-20	1.175E-18	1.078E-16	4.548E-16	4.527E-15	7.988E-14
Pu-240	ΣDSR(j)		1.114E+01	1.114E+01	1.114E+01	1.112E+01	1.101E+01	1.089E+01	1.040E+01	9.063E+00
Pu-241	Pu-241	1.000E+00	2.102E-01	2.003E-01	1.818E-01	1.295E-01	1.630E-02	1.657E-03	1.030E-07	2.000E-22
Pu-241	Am-241	1.000E+00	2.737E-02	4.451E-02	7.631E-02	1.653E-01	3.403E-01	3.376E-01	2.412E-01	7.371E-02
Pu-241	Np-237+D	1.000E+00	1.166E-06	3.183E-06	9.968E-06	5.648E-05	5.421E-04	8.696E-04	8.555E-04	2.587E-04
Pu-241	U-233	1.000E+00	1.325E-13	1.717E-13	3.192E-13	1.688E-12	4.492E-11	1.450E-10	6.491E-10	1.494E-09
Pu-241	Th-229+D	1.000E+00	1.565E-12	1.595E-12	1.697E-12	2.409E-12	9.858E-12	1.598E-11	1.681E-11	3.857E-11
Pu-241	ΣDSR(j)		2.376E-01	2.448E-01	2.581E-01	2.949E-01	3.571E-01	3.402E-01	2.420E-01	7.397E-02
Pu-241+D	Pu-241+D	2.450E-05	5.389E-06	5.134E-06	4.660E-06	3.320E-06	4.178E-07	4.249E-08	2.642E-12	5.128E-27
Pu-241+D	Np-237+D	2.450E-05	2.336E-08	3.824E-08	6.512E-08	1.335E-07	1.694E-07	8.530E-08	2.406E-09	7.705E-15
Pu-241+D	U-233	2.450E-05	4.325E-16	7.721E-16	1.510E-15	4.634E-15	2.657E-14	4.122E-14	5.118E-14	4.637E-14
Pu-241+D	Th-229+D	2.450E-05	3.977E-16	6.281E-16	1.044E-15	2.101E-15	2.650E-15	1.477E-15	3.621E-16	1.723E-15
Pu-241+D	ΣDSR(j)		5.412E-06	5.172E-06	4.725E-06	3.454E-06	5.872E-07	1.278E-07	2.409E-09	5.580E-14

Summary : RESRAD Default

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Dose/Source Ratios Summed Over All Pathways
 Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Thread Fraction	DSR(j,t) At Time in Years (mrem/yr)/(pCi/g)							
			0.000E+00	1.000E+00	3.000E+00	1.000E+01	5.280E+01	1.000E+02	3.000E+02	1.000E+03
Sb-125	Sb-125	7.686E-01	6.240E-02	4.848E-02	2.925E-02	4.994E-03	1.010E-07	6.724E-13	7.807E-35	0.000E+00
Sb-125	Sb-125	2.314E-01	1.878E-02	1.459E-02	8.805E-03	1.503E-03	3.040E-08	2.024E-13	2.350E-35	0.000E+00
Sb-125	Te-125m	2.314E-01	1.813E+00	1.406E+00	8.484E-01	1.448E-01	2.929E-06	1.950E-11	2.264E-33	0.000E+00
Sb-125	ΣDSR(j)		1.832E+00	1.420E+00	8.572E-01	1.463E-01	2.959E-06	1.970E-11	2.288E-33	0.000E+00
Sr-90+D	Sr-90+D	1.000E+00	4.362E+01	4.221E+01	3.954E+01	3.143E+01	7.730E+00	1.646E+00	2.343E-03	2.881E-13
Tc-99	Tc-99	1.000E+00	5.142E+00	4.626E+00	3.742E+00	1.782E+00	1.907E-02	1.280E-04	7.920E-14	0.000E+00

The DSR includes contributions from associated (half-life ≤ 30 days) daughters.

Single Radionuclide Soil Guidelines G(i,t) in pCi/g
 Basic Radiation Dose Limit = 2.500E+01 mrem/yr

Nuclide (i)	t =								
	0.000E+00	1.000E+00	3.000E+00	1.000E+01	5.280E+01	1.000E+02	3.000E+02	1.000E+03	
Ag-108m	1.001E+02	1.003E+02	1.008E+02	1.026E+02	1.140E+02	1.280E+02	2.093E+02	1.147E+03	
Am-241	2.226E+00	2.229E+00	2.237E+00	2.263E+00	2.433E+00	2.638E+00	3.723E+00	1.217E+01	
Am-243	2.231E+00	2.231E+00	2.232E+00	2.235E+00	2.253E+00	2.273E+00	2.360E+00	2.627E+00	
C-14	9.239E+00	9.384E+00	9.682E+00	1.080E+01	2.108E+01	4.408E+01	1.003E+03	5.573E+07	
Cm-243	1.638E+01	1.678E+01	1.759E+01	2.075E+01	5.642E+01	1.634E+02	1.727E+03	2.046E+03	
Cm-244	2.048E+01	2.126E+01	2.291E+01	2.969E+01	1.324E+02	4.378E+02	8.344E+02	9.586E+02	
Co-60	2.227E+02	2.541E+02	3.306E+02	8.304E+02	2.319E+05	1.156E+08	*1.113E+15	*1.113E+15	
Cs-134	1.292E+01	1.809E+01	3.543E+01	3.727E+02	6.610E+08	*1.283E+15	*1.283E+15	*1.283E+15	
Cs-137	1.628E+01	1.667E+01	1.747E+01	2.058E+01	5.618E+01	1.700E+02	1.854E+04	2.104E+11	
Eu-152	6.582E+02	6.929E+02	7.680E+02	1.101E+03	9.948E+03	1.127E+05	3.307E+09	*1.727E+14	
Eu-154	4.532E+02	4.913E+02	5.776E+02	1.018E+03	3.245E+04	1.477E+06	1.569E+13	*2.685E+14	
Eu-155	2.920E+03	3.378E+03	4.522E+03	1.255E+04	6.442E+06	6.281E+09	*4.815E+14	*4.815E+14	
Fe-55	1.689E+05	2.176E+05	3.610E+05	2.126E+06	1.084E+11	*2.335E+15	*2.335E+15	*2.335E+15	
H-3	1.153E+02	1.356E+02	1.875E+02	5.840E+02	6.064E+05	1.286E+09	*9.621E+15	*9.621E+15	
Nb-94	2.888E+02	2.890E+02	2.893E+02	2.903E+02	2.968E+02	3.041E+02	3.372E+02	4.505E+02	
Ni-59	4.351E+03	4.353E+03	4.356E+03	4.367E+03	4.434E+03	4.509E+03	4.843E+03	4.522E+03	
Ni-63	1.589E+03	1.601E+03	1.624E+03	1.709E+03	2.333E+03	3.289E+03	1.409E+04	1.668E+06	
Np-237	1.234E-02	1.256E-02	1.303E-02	1.478E-02	3.205E-02	7.521E-02	2.795E+00	7.978E+04	
Pm-147	4.489E+03	5.848E+03	9.925E+03	6.319E+04	5.197E+09	6.155E+12	6.215E+12	5.755E+12	
Pu-238	2.492E+00	2.512E+00	2.552E+00	2.700E+00	3.807E+00	5.561E+00	2.769E+01	6.669E+03	
Pu-239	2.244E+00	2.244E+00	2.245E+00	2.247E+00	2.262E+00	2.278E+00	2.349E+00	2.554E+00	
Pu-240	2.244E+00	2.244E+00	2.245E+00	2.249E+00	2.271E+00	2.296E+00	2.404E+00	2.758E+00	
Pu-241	1.052E+02	1.021E+02	9.686E+01	8.478E+01	7.001E+01	7.350E+01	1.033E+02	3.380E+02	
Sb-125	1.320E+01	1.702E+01	2.820E+01	1.652E+02	8.169E+06	1.227E+12	*1.029E+15	*1.029E+15	
Sr-90	5.732E-01	5.922E-01	6.323E-01	7.954E-01	3.234E+00	1.519E+01	1.067E+04	8.677E+13	
Tc-99	4.862E+00	5.404E+00	6.680E+00	1.403E+01	1.311E+03	1.954E+05	*1.695E+10	*1.695E+10	

*At specific activity limit

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Summed Dose/Source Ratios DSR(i,t) in (mrem/yr)/(pCi/g)
 and Single Radionuclide Soil Guidelines G(i,t) in pCi/g
 at tmin = time of minimum single radionuclide soil guideline
 and at tmax = time of maximum total dose = 0.000E+00 years

Nuclide (i)	Initial (pCi/g)	tmin (years)	DSR(i,tmin)	G(i,tmin) (pCi/g)	DSR(i,tmax)	G(i,tmax) (pCi/g)
Ag-108m	1.000E+00	0.000E+00	2.498E-01	1.001E+02	2.498E-01	1.001E+02
Am-241	1.000E+00	0.000E+00	1.123E+01	2.226E+00	1.123E+01	2.226E+00
Am-243	1.000E+00	0.000E+00	1.121E+01	2.231E+00	1.121E+01	2.231E+00
C-14	1.000E+00	0.000E+00	2.706E+00	9.239E+00	2.706E+00	9.239E+00
Cm-243	1.000E+00	0.000E+00	1.526E+00	1.638E+01	1.526E+00	1.638E+01
Cm-244	1.000E+00	0.000E+00	1.221E+00	2.048E+01	1.221E+00	2.048E+01
Co-60	1.000E+00	0.000E+00	1.122E-01	2.227E+02	1.122E-01	2.227E+02
Cs-134	1.000E+00	0.000E+00	1.935E+00	1.292E+01	1.935E+00	1.292E+01
Cs-137	1.000E+00	0.000E+00	1.536E+00	1.628E+01	1.536E+00	1.628E+01
Eu-152	1.000E+00	0.000E+00	3.798E-02	6.582E+02	3.798E-02	6.582E+02
Eu-154	1.000E+00	0.000E+00	5.517E-02	4.532E+02	5.517E-02	4.532E+02
Eu-155	1.000E+00	0.000E+00	8.562E-03	2.920E+03	8.562E-03	2.920E+03
Fe-55	1.000E+00	0.000E+00	1.480E-04	1.689E+05	1.480E-04	1.689E+05
H-3	1.000E+00	0.000E+00	2.169E-01	1.153E+02	2.169E-01	1.153E+02
Nb-94	1.000E+00	0.000E+00	8.656E-02	2.888E+02	8.656E-02	2.888E+02
Ni-59	1.000E+00	0.000E+00	5.746E-03	4.351E+03	5.746E-03	4.351E+03
Ni-63	1.000E+00	0.000E+00	1.573E-02	1.589E+03	1.573E-02	1.589E+03
Np-237	1.000E+00	0.000E+00	2.026E+03	1.234E-02	2.026E+03	1.234E-02
Pm-147	1.000E+00	0.000E+00	5.569E-03	4.489E+03	5.569E-03	4.489E+03
Pu-238	1.000E+00	0.000E+00	1.003E+01	2.492E+00	1.003E+01	2.492E+00
Pu-239	1.000E+00	0.000E+00	1.114E+01	2.244E+00	1.114E+01	2.244E+00
Pu-240	1.000E+00	0.000E+00	1.114E+01	2.244E+00	1.114E+01	2.244E+00
Pu-241	1.000E+00	52.8 ± 0.1	3.571E-01	7.001E+01	2.376E-01	1.052E+02
Sb-125	1.000E+00	0.000E+00	1.894E+00	1.320E+01	1.894E+00	1.320E+01
Sr-90	1.000E+00	0.000E+00	4.362E+01	5.732E-01	4.362E+01	5.732E-01
Tc-99	1.000E+00	0.000E+00	5.142E+00	4.862E+00	5.142E+00	4.862E+00

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Individual Nuclide Dose Summed Over All Pathways
Parent Nuclide and Branch Fraction Indicated

Nuclide (j)	Parent (i)	THF (i)	DOSE (j, t), mrem/yr							
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	5.280E+01	1.000E+02	3.000E+02	1.000E+03
Ag-108m	Ag-108m	1.000E+00	2.498E-01	2.491E-01	2.479E-01	2.437E-01	2.193E-01	1.953E-01	1.194E-01	2.179E-02
Am-241	Am-241	1.000E+00	1.123E+01	1.121E+01	1.117E+01	1.104E+01	1.025E+01	9.451E+00	6.691E+00	2.047E+00
Am-241	Pu-241	1.000E+00	2.737E-02	4.451E-02	7.631E-02	1.653E-01	3.403E-01	3.376E-01	2.412E-01	7.371E-02
Am-241	ΣDOSE (j)		1.126E+01	1.126E+01	1.125E+01	1.120E+01	1.059E+01	9.788E+00	6.932E+00	2.121E+00
Np-237	Am-241	1.000E+00	9.406E-04	1.576E-03	2.809E-03	6.758E-03	2.163E-02	2.745E-02	2.383E-02	7.178E-03
Np-237	Np-237	1.000E+00	2.026E+03	1.990E+03	1.919E+03	1.691E+03	7.801E+02	3.324E+02	8.945E+00	2.865E-05
Np-237	Pu-241	1.000E+00	1.166E-06	3.183E-06	9.968E-06	5.648E-05	5.421E-04	8.696E-04	8.555E-04	2.587E-04
Np-237	Pu-241	2.450E-05	2.336E-08	3.824E-08	6.512E-08	1.335E-07	1.694E-07	8.530E-08	2.406E-09	7.705E-15
Np-237	ΣDOSE (j)		2.026E+03	1.990E+03	1.919E+03	1.691E+03	7.802E+02	3.324E+02	8.970E+00	7.466E-03
U-233	Am-241	1.000E+00	2.045E-11	3.474E-11	6.754E-11	2.270E-10	2.280E-09	5.625E-09	2.000E-08	4.329E-08
U-233	Np-237	1.000E+00	4.154E-05	4.708E-05	5.669E-05	8.769E-05	2.106E-04	2.696E-04	3.032E-04	2.742E-04
U-233	Pu-241	1.000E+00	1.325E-13	1.717E-13	3.192E-13	1.688E-12	4.492E-11	1.450E-10	6.491E-10	1.494E-09
U-233	Pu-241	2.450E-05	4.325E-16	7.721E-16	1.510E-15	4.634E-15	2.657E-14	4.122E-14	5.118E-14	4.637E-14
U-233	ΣDOSE (j)		4.154E-05	4.708E-05	5.669E-05	8.769E-05	2.106E-04	2.696E-04	3.032E-04	2.743E-04
Th-229	Am-241	1.000E+00	5.819E-11	6.801E-11	8.708E-11	1.481E-10	3.765E-10	5.007E-10	4.805E-10	1.153E-09
Th-229	Np-237	1.000E+00	3.157E-05	3.101E-05	2.991E-05	2.637E-05	1.230E-05	6.012E-06	2.231E-06	1.052E-05
Th-229	Pu-241	1.000E+00	1.565E-12	1.595E-12	1.697E-12	2.409E-12	9.858E-12	1.598E-11	1.681E-11	3.857E-11
Th-229	Pu-241	2.450E-05	3.977E-16	6.281E-16	1.044E-15	2.101E-15	2.650E-15	1.477E-15	3.621E-16	1.723E-15
Th-229	ΣDOSE (j)		3.157E-05	3.101E-05	2.991E-05	2.637E-05	1.230E-05	6.012E-06	2.231E-06	1.052E-05
Am-243	Am-243	9.829E-01	1.101E+01	1.101E+01	1.101E+01	1.099E+01	1.089E+01	1.078E+01	1.032E+01	9.086E+00
Am-243	Am-243	2.720E-03	3.049E-02	3.048E-02	3.047E-02	3.042E-02	3.014E-02	2.983E-02	2.857E-02	2.515E-02
Am-243	Cm-243	2.359E-03	3.643E-06	6.071E-06	1.076E-05	2.549E-05	7.696E-05	9.584E-05	1.009E-04	8.883E-05
Am-243	Cm-243	6.529E-06	1.008E-08	1.680E-08	2.977E-08	7.056E-08	2.130E-07	2.653E-07	2.792E-07	2.459E-07
Am-243	Cm-243	3.301E-05	5.097E-08	8.494E-08	1.505E-07	3.567E-07	1.077E-06	1.341E-06	1.412E-06	1.243E-06
Am-243	Cm-243	9.135E-08	1.411E-10	2.351E-10	4.166E-10	9.873E-10	2.980E-09	3.712E-09	3.907E-09	3.440E-09
Am-243	Cm-243	1.981E-09	3.058E-12	5.097E-12	9.032E-12	2.140E-11	6.461E-11	8.047E-11	8.470E-11	7.458E-11
Am-243	Cm-243	5.481E-12	8.464E-15	1.411E-14	2.500E-14	5.924E-14	1.788E-13	2.227E-13	2.344E-13	2.064E-13
Am-243	Cm-243	1.416E-06	2.187E-09	3.645E-09	6.459E-09	1.531E-08	4.620E-08	5.754E-08	6.057E-08	5.333E-08
Am-243	Cm-243	3.920E-09	6.052E-12	1.009E-11	1.788E-11	4.236E-11	1.279E-10	1.593E-10	1.676E-10	1.476E-10
Am-243	Cm-243	1.982E-08	3.060E-11	5.100E-11	9.037E-11	2.142E-10	6.465E-10	8.051E-10	8.475E-10	7.462E-10
Am-243	Cm-243	5.484E-11	8.469E-14	1.411E-13	2.501E-13	5.927E-13	1.789E-12	2.228E-12	2.345E-12	2.065E-12
Am-243	Cm-243	1.189E-12	1.836E-15	3.060E-15	5.423E-15	1.285E-14	3.879E-14	4.831E-14	5.085E-14	4.478E-14
Am-243	Cm-243	3.291E-15	5.082E-18	8.469E-18	1.501E-17	3.556E-17	1.074E-16	1.337E-16	1.407E-16	1.239E-16
Am-243	ΣDOSE (j)		1.104E+01	1.104E+01	1.104E+01	1.102E+01	1.092E+01	1.081E+01	1.035E+01	9.111E+00
Pu-239	Am-243	9.829E-01	4.720E-04	7.868E-04	1.416E-03	3.614E-03	1.693E-02	3.137E-02	8.980E-02	2.684E-01
Pu-239	Am-243	2.720E-03	1.307E-06	2.178E-06	3.919E-06	1.000E-05	4.686E-05	8.683E-05	2.486E-04	7.429E-04
Pu-239	Am-243	1.375E-02	6.605E-06	1.101E-05	1.981E-05	5.057E-05	2.369E-04	4.390E-04	1.257E-03	3.756E-03
Pu-239	Am-243	3.806E-05	1.828E-08	3.047E-08	5.483E-08	1.400E-07	6.557E-07	1.215E-06	3.478E-06	1.039E-05
Pu-239	Am-243	8.252E-07	3.964E-10	6.606E-10	1.189E-09	3.034E-09	1.422E-08	2.634E-08	7.540E-08	2.254E-07
Pu-239	Am-243	2.284E-09	1.097E-12	1.828E-12	3.290E-12	8.398E-12	3.934E-11	7.290E-11	2.087E-10	6.237E-10
Pu-239	Cm-243	2.359E-03	8.164E-11	2.238E-10	7.114E-10	4.396E-09	7.228E-08	1.904E-07	7.544E-07	2.510E-06
Pu-239	Cm-243	6.529E-06	2.299E-13	6.233E-13	1.973E-12	1.217E-11	2.000E-10	5.270E-10	2.088E-09	6.947E-09
Pu-239	Cm-243	3.301E-05	1.099E-12	3.088E-12	9.910E-12	6.146E-11	1.011E-09	2.664E-09	1.056E-08	3.512E-08

Summary : RESRAD Default

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Individual Nuclide Dose Summed Over All Pathways

Parent Nuclide and Branch Fraction Indicated

Nuclide (j)	Parent (i)	THF (i)	DOSE (j, t), mrem/yr							
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	5.280E+01	1.000E+02	3.000E+02	1.000E+03
Pu-239	Cm-243	9.135E-08	3.135E-15	8.639E-15	2.752E-14	1.702E-13	2.799E-12	7.374E-12	2.922E-11	9.720E-11
Pu-239	Cm-243	1.981E-09	6.949E-17	1.888E-16	5.982E-16	3.691E-15	6.069E-14	1.599E-13	6.334E-13	2.107E-12
Pu-239	Cm-243	5.481E-12	1.935E-19	5.238E-19	1.657E-18	1.022E-17	1.680E-16	4.425E-16	1.753E-15	5.833E-15
Pu-239	Cm-243	9.805E-01	4.602E-04	7.670E-04	1.359E-03	3.222E-03	9.743E-03	1.216E-02	1.296E-02	1.192E-02
Pu-239	Cm-243	2.714E-03	1.274E-06	2.123E-06	3.762E-06	8.917E-06	2.697E-05	3.366E-05	3.586E-05	3.299E-05
Pu-239	Cm-243	1.372E-02	6.439E-06	1.073E-05	1.902E-05	4.508E-05	1.363E-04	1.702E-04	1.813E-04	1.668E-04
Pu-239	Cm-243	3.797E-05	1.782E-08	2.970E-08	5.264E-08	1.248E-07	3.773E-07	4.710E-07	5.017E-07	4.616E-07
Pu-239	Cm-243	8.232E-07	3.863E-10	6.439E-10	1.141E-09	2.705E-09	8.180E-09	1.021E-08	1.088E-08	1.001E-08
Pu-239	Cm-243	2.278E-09	1.069E-12	1.782E-12	3.159E-12	7.487E-12	2.264E-11	2.826E-11	3.011E-11	2.770E-11
Pu-239	Pu-239	9.829E-01	1.095E+01	1.095E+01	1.095E+01	1.094E+01	1.086E+01	1.079E+01	1.046E+01	9.620E+00
Pu-239	ΣDOSE (j)		1.095E+01	1.095E+01	1.095E+01	1.094E+01	1.089E+01	1.083E+01	1.056E+01	9.905E+00
U-235	Am-243	9.829E-01	1.136E-12	1.170E-12	1.448E-12	3.267E-12	5.008E-11	1.698E-10	1.437E-09	1.424E-08
U-235	Am-243	2.720E-03	1.067E-15	1.114E-15	1.466E-15	6.028E-15	1.356E-13	4.670E-13	3.974E-12	3.941E-11
U-235	Am-243	1.375E-02	5.393E-15	5.635E-15	7.413E-15	3.049E-14	6.858E-13	2.361E-12	2.009E-11	1.992E-10
U-235	Am-243	3.806E-05	3.559E-18	3.730E-18	6.400E-18	5.226E-17	1.865E-15	6.502E-15	5.558E-14	5.514E-13
U-235	Am-243	8.252E-07	2.110E-18	2.105E-18	2.365E-18	4.026E-18	4.321E-17	1.437E-16	1.208E-15	1.196E-14
U-235	Am-243	2.284E-09	2.068E-22	2.219E-22	3.766E-22	3.100E-21	1.119E-19	3.901E-19	3.335E-18	3.308E-17
U-235	Am-243	5.901E-04	5.279E-17	5.851E-17	9.478E-17	7.931E-16	2.890E-14	1.008E-13	8.616E-13	8.548E-12
U-235	Am-243	1.633E-06	2.119E-18	2.165E-18	2.665E-18	5.696E-18	8.349E-17	2.824E-16	2.388E-15	2.366E-14
U-235	Am-243	8.257E-06	1.694E-17	1.690E-17	1.948E-17	3.491E-17	4.282E-16	1.434E-15	1.208E-14	1.196E-13
U-235	Am-243	2.285E-08	3.281E-20	3.352E-20	4.028E-20	8.311E-20	1.172E-18	3.955E-18	3.342E-17	3.311E-16
U-235	Am-243	4.954E-10	2.880E-24	3.599E-24	5.900E-24	2.328E-22	2.370E-20	8.405E-20	7.229E-19	7.176E-18
U-235	Am-243	1.371E-12	2.001E-24	2.043E-24	2.468E-24	5.020E-24	7.034E-23	2.373E-22	2.005E-21	1.987E-20
U-235	Cm-243	2.359E-03	1.413E-17	1.383E-17	1.462E-17	1.611E-17	1.695E-16	8.095E-16	1.066E-14	1.278E-13
U-235	Cm-243	6.529E-06	4.700E-23	5.663E-23	7.849E-23	2.683E-22	3.833E-19	2.156E-18	2.942E-17	3.536E-16
U-235	Cm-243	3.301E-05	3.998E-20	3.806E-20	3.661E-20	5.006E-20	2.149E-18	1.111E-17	1.489E-16	1.788E-15
U-235	Cm-243	9.135E-08	7.099E-23	6.521E-23	6.191E-23	8.788E-23	5.833E-21	3.063E-20	4.120E-19	4.948E-18
U-235	Cm-243	1.981E-09	3.171E-25	3.001E-25	3.194E-25	5.593E-25	1.211E-22	6.588E-22	8.928E-21	1.073E-19
U-235	Cm-243	5.481E-12	1.873E-27	1.819E-27	2.008E-27	2.735E-27	3.414E-25	1.830E-24	2.472E-23	2.969E-22
U-235	Cm-243	1.416E-06	2.154E-21	2.070E-21	2.055E-21	2.693E-21	9.321E-20	4.776E-19	6.391E-18	7.671E-17
U-235	Cm-243	3.920E-09	4.045E-23	3.954E-23	4.065E-23	4.315E-23	2.980E-22	1.361E-21	1.772E-20	2.123E-19
U-235	Cm-243	1.982E-08	4.909E-24	4.732E-24	5.162E-24	8.621E-24	1.225E-21	6.605E-21	8.934E-20	1.073E-18
U-235	Cm-243	5.484E-11	1.880E-27	1.942E-27	2.381E-27	5.313E-27	3.283E-24	1.817E-23	2.472E-22	2.970E-21
U-235	Cm-243	1.189E-12	4.415E-27	4.320E-27	4.580E-27	5.251E-27	8.238E-26	4.050E-25	5.369E-24	6.441E-23
U-235	Cm-243	3.291E-15	2.253E-30	2.034E-30	1.964E-30	2.765E-30	2.105E-28	1.104E-27	1.484E-26	1.782E-25
U-235	Cm-243	9.805E-01	4.413E-14	1.103E-13	3.378E-13	2.060E-12	3.387E-11	8.930E-11	3.553E-10	1.195E-09
U-235	Cm-243	2.714E-03	1.157E-16	2.988E-16	9.283E-16	5.695E-15	9.372E-14	2.472E-13	9.834E-13	3.309E-12
U-235	Cm-243	1.372E-02	5.754E-16	1.501E-15	4.684E-15	2.878E-14	4.738E-13	1.250E-12	4.972E-12	1.673E-11
U-235	Cm-243	3.797E-05	1.255E-18	3.817E-18	1.263E-17	7.932E-17	1.311E-15	3.458E-15	1.376E-14	4.629E-14
U-235	Cm-243	8.232E-07	3.103E-20	8.658E-20	2.776E-19	1.723E-18	2.843E-17	7.497E-17	2.983E-16	1.004E-15
U-235	Cm-243	2.278E-09	8.494E-23	2.387E-22	7.672E-22	4.769E-21	7.868E-20	2.075E-19	8.257E-19	2.778E-18
U-235	Cm-243	5.887E-04	2.108E-17	6.080E-17	1.974E-16	1.231E-15	2.033E-14	5.361E-14	2.133E-13	7.177E-13
U-235	Cm-243	1.629E-06	6.562E-20	1.756E-19	5.535E-19	3.415E-18	5.626E-17	1.484E-16	5.904E-16	1.986E-15
U-235	Cm-243	8.237E-06	2.951E-19	8.509E-19	2.762E-18	1.723E-17	2.844E-16	7.501E-16	2.985E-15	1.004E-14
U-235	Cm-243	2.280E-08	8.979E-22	2.436E-21	7.725E-21	4.776E-20	7.872E-19	2.076E-18	8.261E-18	2.779E-17
U-235	Cm-243	4.942E-10	1.920E-23	5.255E-23	1.672E-22	1.035E-21	1.707E-20	4.501E-20	1.791E-19	6.026E-19
U-235	Cm-243	1.368E-12	5.642E-26	1.487E-25	4.660E-25	2.868E-24	4.724E-23	1.246E-22	4.957E-22	1.668E-21
U-235	Pu-239	5.901E-04	1.034E-12	1.730E-12	3.122E-12	7.987E-12	3.749E-11	6.955E-11	2.000E-10	6.045E-10

Summary : RESRAD Default

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Individual Nuclide Dose Summed Over All Pathways

Parent Nuclide and Branch Fraction Indicated

Nuclide (j)	Parent (i)	THF(i)	DOSE(j,t), mrem/yr							
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	5.280E+01	1.000E+02	3.000E+02	1.000E+03
U-235	Pu-239	1.633E-06	2.862E-15	4.789E-15	8.641E-15	2.211E-14	1.038E-13	1.925E-13	5.535E-13	1.673E-12
U-235	Pu-239	8.257E-06	1.447E-14	2.421E-14	4.369E-14	1.118E-13	5.246E-13	9.732E-13	2.799E-12	8.458E-12
U-235	Pu-239	2.285E-08	4.005E-17	6.701E-17	1.209E-16	3.093E-16	1.452E-15	2.694E-15	7.745E-15	2.341E-14
U-235	Pu-239	4.954E-10	8.682E-19	1.453E-18	2.621E-18	6.706E-18	3.148E-17	5.840E-17	1.679E-16	5.075E-16
U-235	Pu-239	1.371E-12	2.403E-21	4.021E-21	7.255E-21	1.856E-20	8.712E-20	1.616E-19	4.647E-19	1.405E-18
U-235	Pu-239	9.829E-01	1.722E-09	2.882E-09	5.201E-09	1.330E-08	6.245E-08	1.159E-07	3.331E-07	1.007E-06
U-235	Pu-239	2.720E-03	4.767E-12	7.977E-12	1.439E-11	3.682E-11	1.728E-10	3.206E-10	9.220E-10	2.787E-09
U-235	Pu-239	1.375E-02	2.410E-11	4.033E-11	7.277E-11	1.862E-10	8.738E-10	1.621E-09	4.661E-09	1.409E-08
U-235	Pu-239	3.806E-05	6.671E-14	1.116E-13	2.014E-13	5.152E-13	2.418E-12	4.487E-12	1.290E-11	3.899E-11
U-235	Pu-239	8.252E-07	1.446E-15	2.420E-15	4.366E-15	1.117E-14	5.243E-14	9.727E-14	2.797E-13	8.453E-13
U-235	Pu-239	2.284E-09	4.003E-18	6.697E-18	1.208E-17	3.091E-17	1.451E-16	2.692E-16	7.741E-16	2.340E-15
U-235	ΣDOSE(j)		1.754E-09	2.934E-09	5.293E-09	1.354E-08	6.362E-08	1.181E-07	3.408E-07	1.040E-06
Pa-231	Am-243	9.829E-01	1.912E-11	1.913E-11	1.938E-11	1.965E-11	1.793E-11	1.941E-11	5.757E-11	1.690E-09
Pa-231	Am-243	2.720E-03	4.037E-14	4.022E-14	4.153E-14	4.197E-14	4.005E-14	3.796E-14	1.333E-13	4.655E-12
Pa-231	Am-243	1.375E-02	2.041E-13	2.033E-13	2.100E-13	2.121E-13	2.025E-13	1.911E-13	6.574E-13	2.352E-11
Pa-231	Am-243	3.806E-05	5.653E-16	5.632E-16	5.817E-16	5.878E-16	5.604E-16	5.346E-16	1.893E-15	6.516E-14
Pa-231	Am-243	8.252E-07	1.240E-17	1.237E-17	1.274E-17	1.288E-17	1.219E-17	1.191E-17	4.250E-17	1.414E-15
Pa-231	Am-243	2.284E-09	3.876E-20	3.887E-20	3.937E-20	3.986E-20	3.644E-20	3.877E-20	1.273E-19	3.922E-18
Pa-231	Am-243	5.901E-04	8.756E-15	8.725E-15	9.009E-15	9.102E-15	8.688E-15	8.207E-15	2.845E-14	1.009E-12
Pa-231	Am-243	1.633E-06	3.267E-17	3.282E-17	3.318E-17	3.365E-17	3.074E-17	3.331E-17	9.671E-17	2.810E-15
Pa-231	Am-243	8.257E-06	1.273E-16	1.269E-16	1.300E-16	1.320E-16	1.231E-16	1.237E-16	4.364E-16	1.416E-14
Pa-231	Am-243	2.285E-08	3.833E-19	3.843E-19	3.896E-19	3.954E-19	3.609E-19	3.829E-19	1.267E-18	3.923E-17
Pa-231	Am-243	4.954E-10	1.022E-20	1.027E-20	1.040E-20	1.052E-20	9.641E-21	1.041E-20	2.963E-20	8.525E-19
Pa-231	Am-243	1.371E-12	2.036E-23	2.028E-23	2.094E-23	2.116E-23	2.019E-23	1.920E-23	6.780E-23	2.347E-21
Pa-231	Cm-243	2.359E-03	3.238E-17	3.480E-17	4.112E-17	5.781E-17	1.098E-16	1.245E-16	3.603E-16	1.444E-14
Pa-231	Cm-243	6.529E-06	2.938E-19	3.052E-19	3.162E-19	3.652E-19	4.763E-19	5.575E-19	1.298E-18	4.024E-17
Pa-231	Cm-243	3.301E-05	8.116E-19	8.588E-19	9.154E-19	1.158E-18	1.760E-18	2.129E-18	5.877E-18	2.029E-16
Pa-231	Cm-243	9.135E-08	1.461E-21	1.560E-21	1.779E-21	2.442E-21	4.314E-21	5.048E-21	1.492E-20	5.602E-19
Pa-231	Cm-243	1.981E-09	4.030E-23	4.296E-23	4.629E-23	6.108E-23	9.865E-23	1.185E-22	3.403E-22	1.216E-20
Pa-231	Cm-243	5.481E-12	1.927E-25	2.017E-25	2.112E-25	2.522E-25	3.463E-25	4.141E-25	1.039E-24	3.374E-23
Pa-231	Cm-243	1.416E-06	5.995E-20	6.240E-20	6.478E-20	7.544E-20	9.967E-20	1.171E-19	2.782E-19	8.727E-18
Pa-231	Cm-243	3.920E-09	5.505E-23	5.918E-23	6.950E-23	9.766E-23	1.828E-22	2.087E-22	6.122E-22	2.401E-20
Pa-231	Cm-243	1.982E-08	2.711E-22	2.918E-22	3.445E-22	4.850E-22	9.225E-22	1.044E-21	3.011E-21	1.213E-19
Pa-231	Cm-243	5.484E-11	9.986E-25	1.073E-24	1.177E-24	1.580E-24	2.666E-24	3.161E-24	9.227E-24	3.366E-22
Pa-231	Cm-243	1.189E-12	1.625E-26	1.746E-26	2.067E-26	2.908E-26	5.535E-26	6.258E-26	1.803E-25	7.279E-24
Pa-231	Cm-243	3.291E-15	8.408E-29	8.799E-29	9.397E-29	1.184E-28	1.778E-28	2.150E-28	5.888E-28	2.023E-26
Pa-231	Cm-243	9.805E-01	2.601E-14	2.697E-14	2.862E-14	3.632E-14	2.300E-13	1.009E-12	1.291E-11	2.017E-10
Pa-231	Cm-243	2.714E-03	2.814E-17	3.060E-17	3.589E-17	5.179E-17	5.715E-16	2.728E-15	3.568E-14	5.581E-13
Pa-231	Cm-243	1.372E-02	1.630E-16	1.732E-16	1.987E-16	2.878E-16	2.960E-15	1.386E-14	1.805E-13	2.821E-12
Pa-231	Cm-243	3.797E-05	6.470E-19	6.827E-19	7.464E-19	1.035E-18	8.526E-18	3.870E-17	4.998E-16	7.809E-15
Pa-231	Cm-243	8.232E-07	1.629E-20	1.706E-20	1.843E-20	2.484E-20	1.874E-19	8.417E-19	1.084E-17	1.693E-16
Pa-231	Cm-243	2.278E-09	2.329E-23	2.522E-23	2.972E-23	4.267E-23	4.750E-22	2.286E-21	2.995E-20	4.685E-19
Pa-231	Cm-243	5.887E-04	7.708E-18	8.205E-18	9.266E-18	1.327E-17	1.286E-16	5.965E-16	7.745E-15	1.211E-13
Pa-231	Cm-243	1.629E-06	1.656E-20	1.787E-20	2.113E-20	3.007E-20	3.306E-19	1.626E-18	2.141E-17	3.350E-16
Pa-231	Cm-243	8.237E-06	2.313E-19	2.394E-19	2.533E-19	3.179E-19	1.944E-18	8.490E-18	1.085E-16	1.694E-15
Pa-231	Cm-243	2.280E-08	4.657E-22	4.879E-22	5.253E-22	7.035E-22	5.206E-21	2.332E-20	3.001E-19	4.688E-18
Pa-231	Cm-243	4.942E-10	1.033E-23	1.081E-23	1.163E-23	1.550E-23	1.131E-22	5.059E-22	6.507E-21	1.016E-19
Pa-231	Cm-243	1.368E-12	1.741E-26	1.846E-26	2.095E-26	3.006E-26	2.977E-25	1.385E-24	1.799E-23	2.813E-22

Summary : RESRAD Default

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Individual Nuclide Dose Summed Over All Pathways
Parent Nuclide and Branch Fraction Indicated

Nuclide (j)	Parent (i)	THF(i)	DOSE(j,t), mrem/yr							
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	5.280E+01	1.000E+02	3.000E+02	1.000E+03
Pa-231	Pu-239	5.901E-04	2.332E-14	2.346E-14	2.485E-14	3.538E-14	2.961E-13	9.771E-13	8.226E-12	1.069E-10
Pa-231	Pu-239	1.633E-06	7.458E-17	7.565E-17	8.070E-17	1.112E-16	8.327E-16	2.717E-15	2.278E-14	2.958E-13
Pa-231	Pu-239	8.257E-06	3.895E-16	3.947E-16	4.202E-16	5.745E-16	4.223E-15	1.375E-14	1.152E-13	1.496E-12
Pa-231	Pu-239	2.285E-08	8.455E-19	8.452E-19	8.776E-19	1.163E-18	1.126E-17	3.764E-17	3.184E-16	4.139E-15
Pa-231	Pu-239	4.954E-10	2.345E-20	2.377E-20	2.530E-20	3.455E-20	2.534E-19	8.252E-19	6.911E-18	8.975E-17
Pa-231	Pu-239	1.371E-12	6.413E-23	6.499E-23	6.921E-23	9.484E-23	7.007E-22	2.283E-21	1.913E-20	2.484E-19
Pa-231	Pu-239	9.829E-01	3.726E-11	3.746E-11	3.946E-11	5.546E-11	4.898E-10	1.624E-09	1.370E-08	1.780E-07
Pa-231	Pu-239	2.720E-03	1.075E-13	1.082E-13	1.146E-13	1.631E-13	1.365E-12	4.505E-12	3.792E-11	4.927E-10
Pa-231	Pu-239	1.375E-02	5.771E-13	5.843E-13	6.241E-13	8.788E-13	6.956E-12	2.283E-11	1.918E-10	2.491E-09
Pa-231	Pu-239	3.806E-05	1.747E-15	1.772E-15	1.889E-15	2.600E-15	1.942E-14	6.334E-14	5.309E-13	6.895E-12
Pa-231	Pu-239	8.252E-07	3.051E-17	3.045E-17	3.149E-17	3.960E-17	4.043E-16	1.357E-15	1.149E-14	1.495E-13
Pa-231	Pu-239	2.284E-09	9.418E-20	9.514E-20	1.013E-19	1.434E-19	1.153E-18	3.788E-18	3.185E-17	4.137E-16
Pa-231	ΣDOSE(j)		5.737E-11	5.759E-11	5.990E-11	7.649E-11	5.169E-10	1.673E-09	1.401E-08	1.831E-07
Ac-227	Am-243	9.829E-01	2.047E-11	2.041E-11	2.106E-11	2.128E-11	2.023E-11	1.924E-11	3.673E-11	8.258E-10
Ac-227	Am-243	5.901E-04	1.235E-14	1.230E-14	1.268E-14	1.282E-14	1.215E-14	1.161E-14	2.227E-14	4.960E-13
Ac-227	Cm-243	2.359E-03	5.419E-17	5.805E-17	6.544E-17	8.928E-17	1.576E-16	1.816E-16	3.174E-16	7.124E-15
Ac-227	Cm-243	1.416E-06	2.693E-20	2.900E-20	3.424E-20	4.827E-20	9.216E-20	1.036E-19	1.672E-19	4.256E-18
Ac-227	Cm-243	9.805E-01	1.469E-14	1.583E-14	1.847E-14	2.596E-14	8.306E-14	3.636E-13	6.638E-12	1.006E-10
Ac-227	Cm-243	5.887E-04	8.471E-18	9.183E-18	1.080E-17	1.526E-17	4.862E-17	2.170E-16	3.984E-15	6.040E-14
Ac-227	Pu-239	5.901E-04	3.340E-14	3.330E-14	3.418E-14	3.542E-14	1.021E-13	3.802E-13	4.343E-12	5.326E-11
Ac-227	Pu-239	9.829E-01	5.385E-11	5.378E-11	5.519E-11	5.710E-11	1.681E-10	6.313E-10	7.232E-09	8.871E-08
Ac-227	ΣDOSE(j)		7.438E-11	7.426E-11	7.631E-11	7.846E-11	1.885E-10	6.513E-10	7.279E-09	8.969E-08
Ac-227	Am-243	2.720E-03	6.095E-14	6.101E-14	6.235E-14	6.306E-14	5.872E-14	5.799E-14	1.106E-13	2.292E-12
Ac-227	Am-243	1.375E-02	2.844E-13	2.834E-13	2.926E-13	2.957E-13	2.821E-13	2.662E-13	4.924E-13	1.150E-11
Ac-227	Am-243	1.633E-06	3.675E-17	3.673E-17	3.758E-17	3.801E-17	3.538E-17	3.497E-17	6.659E-17	1.376E-15
Ac-227	Cm-243	6.529E-06	2.257E-19	2.377E-19	2.580E-19	3.242E-19	5.044E-19	5.796E-19	9.664E-19	1.977E-17
Ac-227	Cm-243	3.920E-09	7.632E-23	8.231E-23	9.639E-23	1.351E-22	2.550E-22	2.887E-22	4.937E-22	1.180E-20
Ac-227	Cm-243	2.714E-03	4.253E-17	4.549E-17	5.267E-17	7.342E-17	2.339E-16	1.010E-15	1.837E-14	2.782E-13
Ac-227	Cm-243	1.629E-06	3.635E-20	3.829E-20	4.243E-20	5.519E-20	1.547E-19	6.204E-19	1.104E-17	1.670E-16
Ac-227	Pu-239	1.633E-06	8.421E-17	8.395E-17	8.652E-17	8.765E-17	2.653E-16	1.035E-15	1.200E-14	1.472E-13
Ac-227	Pu-239	2.720E-03	1.614E-13	1.612E-13	1.651E-13	1.709E-13	4.780E-13	1.759E-12	2.002E-11	2.453E-10
Ac-227	ΣDOSE(j)		5.070E-13	5.058E-13	5.203E-13	5.299E-13	8.194E-13	2.086E-12	2.065E-11	2.595E-10
Am-243	Am-243	1.375E-02	1.541E-01	1.541E-01	1.540E-01	1.538E-01	1.524E-01	1.508E-01	1.444E-01	1.271E-01
Am-243	Am-243	3.806E-05	4.266E-04	4.265E-04	4.263E-04	4.257E-04	4.217E-04	4.174E-04	3.997E-04	3.519E-04
Am-243	ΣDOSE(j)		1.546E-01	1.545E-01	1.545E-01	1.542E-01	1.528E-01	1.512E-01	1.448E-01	1.275E-01
Ac-227	Am-243	3.806E-05	9.152E-16	9.160E-16	9.360E-16	9.467E-16	8.794E-16	8.773E-16	1.614E-15	3.206E-14
Ac-227	Am-243	8.252E-07	1.677E-17	1.674E-17	1.719E-17	1.740E-17	1.637E-17	1.582E-17	3.060E-17	6.616E-16
Ac-227	Am-243	2.285E-08	5.458E-19	5.452E-19	5.572E-19	5.639E-19	5.229E-19	5.217E-19	9.644E-19	1.924E-17
Ac-227	Cm-243	9.135E-08	1.878E-21	2.013E-21	2.334E-21	3.247E-21	5.969E-21	6.808E-21	1.182E-20	2.746E-19
Ac-227	Cm-243	5.484E-11	1.080E-24	1.158E-24	1.354E-24	1.898E-24	3.567E-24	4.041E-24	6.937E-24	1.647E-22
Ac-227	Cm-243	3.797E-05	6.670E-19	7.101E-19	8.062E-19	1.104E-18	3.397E-18	1.423E-17	2.566E-16	3.885E-15
Ac-227	Cm-243	2.280E-08	3.622E-22	3.869E-22	4.468E-22	6.216E-22	1.972E-21	8.476E-21	1.540E-19	2.332E-18
Ac-227	Pu-239	2.285E-08	1.375E-18	1.373E-18	1.406E-18	1.455E-18	4.029E-18	1.477E-17	1.679E-16	2.056E-15
Ac-227	Pu-239	3.806E-05	1.959E-15	1.954E-15	2.013E-15	2.041E-15	6.190E-15	2.409E-14	2.791E-13	3.425E-12
Ac-227	ΣDOSE(j)		2.894E-15	2.889E-15	2.969E-15	3.009E-15	7.094E-15	2.501E-14	2.812E-13	3.463E-12

Summary : RESRAD Default

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Individual Nuclide Dose Summed Over All Pathways

Parent Nuclide and Branch Fraction Indicated

Nuclide (j)	Parent (i)	THF(i)	DOSE(j,t), mrem/yr							
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	5.280E+01	1.000E+02	3.000E+02	1.000E+03
Am-243	Am-243	8.252E-07	9.248E-06	9.246E-06	9.242E-06	9.228E-06	9.143E-06	9.050E-06	8.666E-06	7.629E-06
Am-243	Am-243	2.284E-09	2.560E-08	2.559E-08	2.558E-08	2.554E-08	2.530E-08	2.505E-08	2.398E-08	2.111E-08
Am-243	ΣDOSE(j)		9.274E-06	9.272E-06	9.268E-06	9.254E-06	9.168E-06	9.075E-06	8.690E-06	7.650E-06
Ac-227	Am-243	2.284E-09	4.513E-20	4.497E-20	4.644E-20	4.692E-20	4.477E-20	4.222E-20	7.476E-20	1.822E-18
Ac-227	Am-243	1.371E-12	2.890E-23	2.889E-23	2.954E-23	2.991E-23	2.785E-23	2.741E-23	5.258E-23	1.101E-21
Ac-227	Cm-243	5.481E-12	1.452E-25	1.533E-25	1.695E-25	2.229E-25	3.693E-25	4.273E-25	7.362E-25	1.580E-23
Ac-227	Cm-243	3.291E-15	7.447E-29	7.980E-29	8.943E-29	1.213E-28	2.111E-28	2.439E-28	4.258E-28	9.469E-27
Ac-227	Cm-243	2.278E-09	3.785E-23	4.032E-23	4.588E-23	6.285E-23	1.941E-22	8.151E-22	1.471E-20	2.227E-19
Ac-227	Cm-243	1.368E-12	1.859E-26	2.008E-26	2.368E-26	3.355E-26	1.056E-25	4.785E-25	8.822E-24	1.337E-22
Ac-227	Pu-239	1.371E-12	7.235E-23	7.222E-23	7.409E-23	7.671E-23	2.242E-22	8.401E-22	9.616E-21	1.179E-19
Ac-227	Pu-239	2.284E-09	1.122E-19	1.118E-19	1.153E-19	1.166E-19	3.465E-19	1.373E-18	1.599E-17	1.963E-16
Ac-227	ΣDOSE(j)		1.575E-19	1.570E-19	1.619E-19	1.637E-19	3.917E-19	1.416E-18	1.609E-17	1.985E-16
Am-243	Am-243	5.901E-04	6.613E-03	6.612E-03	6.609E-03	6.599E-03	6.538E-03	6.471E-03	6.197E-03	5.455E-03
Am-243	Am-243	1.633E-06	1.830E-05	1.830E-05	1.829E-05	1.826E-05	1.809E-05	1.791E-05	1.715E-05	1.510E-05
Am-243	ΣDOSE(j)		6.631E-03	6.630E-03	6.627E-03	6.617E-03	6.556E-03	6.489E-03	6.214E-03	5.470E-03
Pu-239	Am-243	5.901E-04	2.834E-07	4.724E-07	8.501E-07	2.170E-06	1.016E-05	1.884E-05	5.392E-05	1.611E-04
Pu-239	Am-243	1.633E-06	7.844E-10	1.307E-09	2.353E-09	6.005E-09	2.813E-08	5.213E-08	1.492E-07	4.460E-07
Pu-239	Am-243	8.257E-06	3.966E-09	6.610E-09	1.189E-08	3.036E-08	1.422E-07	2.635E-07	7.544E-07	2.255E-06
Pu-239	Am-243	2.285E-08	1.098E-11	1.829E-11	3.292E-11	8.403E-11	3.936E-10	7.294E-10	2.088E-09	6.241E-09
Pu-239	Am-243	4.954E-10	2.380E-13	3.966E-13	7.137E-13	1.822E-12	8.534E-12	1.581E-11	4.527E-11	1.353E-10
Pu-239	Am-243	1.371E-12	6.586E-16	1.098E-15	1.975E-15	5.042E-15	2.362E-14	4.377E-14	1.253E-13	3.745E-13
Pu-239	Cm-243	1.416E-06	5.128E-14	1.364E-13	4.287E-13	2.639E-12	4.339E-11	1.143E-10	4.529E-10	1.507E-09
Pu-239	Cm-243	3.920E-09	1.405E-16	3.760E-16	1.185E-15	7.303E-15	1.201E-13	3.164E-13	1.254E-12	4.171E-12
Pu-239	Cm-243	1.982E-08	6.975E-16	1.888E-15	5.979E-15	3.691E-14	6.071E-13	1.599E-12	6.337E-12	2.109E-11
Pu-239	Cm-243	5.484E-11	1.954E-18	5.250E-18	1.657E-17	1.022E-16	1.680E-15	4.427E-15	1.754E-14	5.836E-14
Pu-239	Cm-243	1.189E-12	4.109E-20	1.125E-19	3.580E-19	2.214E-18	3.643E-17	9.597E-17	3.803E-16	1.265E-15
Pu-239	Cm-243	3.291E-15	1.136E-22	3.113E-22	9.906E-22	6.127E-21	1.008E-19	2.656E-19	1.052E-18	3.502E-18
Pu-239	Cm-243	5.887E-04	2.763E-07	4.605E-07	8.161E-07	1.934E-06	5.849E-06	7.301E-06	7.778E-06	7.156E-06
Pu-239	Cm-243	1.629E-06	7.646E-10	1.274E-09	2.259E-09	5.354E-09	1.619E-08	2.021E-08	2.153E-08	1.980E-08
Pu-239	Cm-243	8.237E-06	3.865E-09	6.443E-09	1.142E-08	2.707E-08	8.184E-08	1.022E-07	1.088E-07	1.001E-07
Pu-239	Cm-243	2.280E-08	1.070E-11	1.783E-11	3.160E-11	7.491E-11	2.265E-10	2.827E-10	3.012E-10	2.771E-10
Pu-239	Cm-243	4.942E-10	2.319E-13	3.866E-13	6.851E-13	1.624E-12	4.911E-12	6.130E-12	6.530E-12	6.008E-12
Pu-239	Cm-243	1.368E-12	6.419E-16	1.070E-15	1.896E-15	4.495E-15	1.359E-14	1.697E-14	1.807E-14	1.663E-14
Pu-239	Pu-239	5.901E-04	6.575E-03	6.574E-03	6.572E-03	6.565E-03	6.522E-03	6.475E-03	6.279E-03	5.775E-03
Pu-239	ΣDOSE(j)		6.576E-03	6.575E-03	6.574E-03	6.569E-03	6.538E-03	6.501E-03	6.342E-03	5.947E-03
Am-243	Am-243	8.257E-06	9.253E-05	9.251E-05	9.247E-05	9.233E-05	9.148E-05	9.055E-05	8.671E-05	7.633E-05
Am-243	Am-243	2.285E-08	2.561E-07	2.560E-07	2.559E-07	2.555E-07	2.532E-07	2.506E-07	2.400E-07	2.113E-07
Am-243	ΣDOSE(j)		9.279E-05	9.277E-05	9.273E-05	9.259E-05	9.173E-05	9.080E-05	8.695E-05	7.654E-05
Ac-227	Am-243	8.257E-06	2.150E-16	2.153E-16	2.196E-16	2.222E-16	2.077E-16	2.066E-16	3.660E-16	6.969E-15
Ac-227	Cm-243	3.301E-05	6.253E-19	6.732E-19	7.951E-19	1.122E-18	2.142E-18	2.409E-18	3.966E-18	9.896E-17
Ac-227	Cm-243	1.982E-08	4.394E-22	4.715E-22	5.349E-22	7.341E-22	1.314E-21	1.508E-21	2.634E-21	5.964E-20
Ac-227	Cm-243	1.372E-02	2.642E-16	2.806E-16	3.150E-16	4.229E-16	1.257E-15	5.171E-15	9.276E-14	1.404E-12
Ac-227	Cm-243	8.237E-06	1.374E-19	1.461E-19	1.677E-19	2.313E-19	7.248E-19	3.075E-18	5.566E-17	8.426E-16
Ac-227	Pu-239	8.257E-06	4.307E-16	4.296E-16	4.422E-16	4.521E-16	1.371E-15	5.253E-15	6.057E-14	7.429E-13

Summary : RESRAD Default

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Individual Nuclide Dose Summed Over All Pathways
Parent Nuclide and Branch Fraction Indicated

Nuclide (j)	Parent (i)	THF(i)	DOSE (j, t), mrem/yr							
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	5.280E+01	1.000E+02	3.000E+02	1.000E+03
Ac-227	Pu-239	1.375E-02	7.674E-13	7.658E-13	7.859E-13	8.138E-13	2.363E-12	8.829E-12	1.010E-10	1.238E-09
Ac-227	ΣDOSE (j)		7.683E-13	7.667E-13	7.869E-13	8.149E-13	2.366E-12	8.839E-12	1.011E-10	1.240E-09
Am-243	Am-243	4.954E-10	5.552E-09	5.551E-09	5.549E-09	5.540E-09	5.489E-09	5.433E-09	5.203E-09	4.580E-09
Am-243	Am-243	1.371E-12	1.537E-11	1.536E-11	1.536E-11	1.533E-11	1.519E-11	1.504E-11	1.440E-11	1.268E-11
Am-243	ΣDOSE (j)		5.568E-09	5.566E-09	5.564E-09	5.556E-09	5.504E-09	5.448E-09	5.217E-09	4.593E-09
Ac-227	Am-243	4.954E-10	9.795E-21	9.760E-21	1.008E-20	1.018E-20	9.715E-21	9.163E-21	1.632E-20	3.954E-19
Ac-227	Cm-243	1.981E-09	4.077E-23	4.380E-23	4.995E-23	6.882E-23	1.247E-22	1.428E-22	2.493E-22	5.693E-21
Ac-227	Cm-243	1.189E-12	2.623E-26	2.809E-26	3.160E-26	4.308E-26	7.588E-26	8.746E-26	1.529E-25	3.421E-24
Ac-227	Cm-243	8.232E-07	1.116E-20	1.203E-20	1.422E-20	2.015E-20	5.999E-20	2.844E-19	5.306E-18	8.045E-17
Ac-227	Cm-243	4.942E-10	6.726E-24	7.264E-24	8.566E-24	1.213E-23	3.816E-23	1.729E-22	3.187E-21	4.830E-20
Ac-227	Pu-239	4.954E-10	2.723E-20	2.719E-20	2.787E-20	2.887E-20	8.220E-20	3.047E-19	3.476E-18	4.259E-17
Ac-227	Pu-239	8.252E-07	4.054E-17	4.040E-17	4.165E-17	4.209E-17	1.242E-16	4.949E-16	5.777E-15	7.093E-14
Ac-227	ΣDOSE (j)		4.059E-17	4.045E-17	4.170E-17	4.215E-17	1.243E-16	4.955E-16	5.786E-15	7.106E-14
C-14	C-14	1.000E+00	2.706E+00	2.664E+00	2.582E+00	2.315E+00	1.186E+00	5.672E-01	2.492E-02	4.486E-07
Cm-243	Cm-243	2.359E-03	3.598E-03	3.513E-03	3.350E-03	2.835E-03	1.022E-03	3.316E-04	2.815E-06	1.788E-13
Cm-243	Cm-243	6.529E-06	9.959E-06	9.724E-06	9.271E-06	7.846E-06	2.828E-06	9.176E-07	7.792E-09	4.948E-16
Cm-243	ΣDOSE (j)		3.608E-03	3.523E-03	3.359E-03	2.843E-03	1.025E-03	3.325E-04	2.823E-06	1.793E-13
Cm-243	Cm-243	3.301E-05	5.035E-05	4.916E-05	4.687E-05	3.967E-05	1.430E-05	4.639E-06	3.939E-08	2.501E-15
Cm-243	Cm-243	9.135E-08	1.393E-07	1.361E-07	1.297E-07	1.098E-07	3.957E-08	1.284E-08	1.090E-10	6.923E-18
Cm-243	ΣDOSE (j)		5.049E-05	4.930E-05	4.700E-05	3.978E-05	1.434E-05	4.652E-06	3.950E-08	2.508E-15
Cm-243	Cm-243	1.981E-09	3.021E-09	2.950E-09	2.813E-09	2.380E-09	8.578E-10	2.784E-10	2.364E-12	1.501E-19
Cm-243	Cm-243	5.481E-12	8.361E-12	8.164E-12	7.784E-12	6.587E-12	2.374E-12	7.704E-13	6.542E-15	4.154E-22
Cm-243	ΣDOSE (j)		3.029E-09	2.958E-09	2.820E-09	2.387E-09	8.602E-10	2.791E-10	2.370E-12	1.505E-19
Cm-243	Cm-243	1.416E-06	2.160E-06	2.109E-06	2.011E-06	1.702E-06	6.134E-07	1.991E-07	1.690E-09	1.073E-16
Cm-243	Cm-243	3.920E-09	5.979E-09	5.838E-09	5.566E-09	4.710E-09	1.698E-09	5.509E-10	4.678E-12	2.970E-19
Cm-243	ΣDOSE (j)		2.166E-06	2.115E-06	2.017E-06	1.707E-06	6.151E-07	1.996E-07	1.695E-09	1.076E-16
Cm-243	Cm-243	1.982E-08	3.023E-08	2.951E-08	2.814E-08	2.381E-08	8.583E-09	2.785E-09	2.365E-11	1.502E-18
Cm-243	Cm-243	5.484E-11	8.366E-11	8.169E-11	7.788E-11	6.591E-11	2.375E-11	7.708E-12	6.546E-14	4.156E-21
Cm-243	ΣDOSE (j)		3.031E-08	2.960E-08	2.822E-08	2.388E-08	8.607E-09	2.793E-09	2.372E-11	1.506E-18
Cm-243	Cm-243	1.189E-12	1.814E-12	1.771E-12	1.689E-12	1.429E-12	5.150E-13	1.671E-13	1.419E-15	9.011E-23
Cm-243	Cm-243	3.291E-15	5.020E-15	4.901E-15	4.673E-15	3.955E-15	1.425E-15	4.625E-16	3.928E-18	2.494E-25
Cm-243	ΣDOSE (j)		1.819E-12	1.776E-12	1.693E-12	1.433E-12	5.164E-13	1.676E-13	1.423E-15	9.036E-23
Cm-243	Cm-243	9.805E-01	1.496E+00	1.460E+00	1.392E+00	1.178E+00	4.247E-01	1.378E-01	1.170E-03	7.431E-11
Cm-243	Cm-243	2.714E-03	4.140E-03	4.042E-03	3.854E-03	3.261E-03	1.175E-03	3.814E-04	3.239E-06	2.057E-13
Cm-243	ΣDOSE (j)		1.500E+00	1.464E+00	1.396E+00	1.182E+00	4.259E-01	1.382E-01	1.173E-03	7.452E-11
Cm-243	Cm-243	1.372E-02	2.093E-02	2.043E-02	1.948E-02	1.649E-02	5.942E-03	1.928E-03	1.637E-05	1.040E-12
Cm-243	Cm-243	3.797E-05	5.792E-05	5.656E-05	5.392E-05	4.563E-05	1.645E-05	5.337E-06	4.532E-08	2.878E-15
Cm-243	ΣDOSE (j)		2.099E-02	2.049E-02	1.954E-02	1.653E-02	5.959E-03	1.934E-03	1.642E-05	1.043E-12

Summary : RESRAD Default

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Individual Nuclide Dose Summed Over All Pathways
Parent Nuclide and Branch Fraction Indicated

Nuclide (j)	Parent (i)	THF(i)	DOSE(j,t), mrem/yr								
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	5.280E+01	1.000E+02	3.000E+02	1.000E+03	
Cm-243	Cm-243	8.232E-07	1.256E-06	1.226E-06	1.169E-06	9.894E-07	3.566E-07	1.157E-07	9.825E-10	6.239E-17	
Cm-243	Cm-243	2.278E-09	3.475E-09	3.394E-09	3.236E-09	2.738E-09	9.868E-10	3.202E-10	2.719E-12	1.727E-19	
Cm-243	ΣDOSE(j)		1.259E-06	1.230E-06	1.172E-06	9.921E-07	3.576E-07	1.160E-07	9.852E-10	6.256E-17	
Cm-243	Cm-243	5.887E-04	8.980E-04	8.768E-04	8.360E-04	7.075E-04	2.550E-04	8.274E-05	7.026E-07	4.461E-14	
Cm-243	Cm-243	1.629E-06	2.485E-06	2.427E-06	2.314E-06	1.958E-06	7.057E-07	2.290E-07	1.944E-09	1.235E-16	
Cm-243	ΣDOSE(j)		9.004E-04	8.792E-04	8.383E-04	7.094E-04	2.557E-04	8.297E-05	7.045E-07	4.474E-14	
Cm-243	Cm-243	8.237E-06	1.256E-05	1.227E-05	1.170E-05	9.899E-06	3.568E-06	1.158E-06	9.831E-09	6.242E-16	
Cm-243	Cm-243	2.280E-08	3.477E-08	3.395E-08	3.237E-08	2.740E-08	9.874E-09	3.204E-09	2.721E-11	1.728E-18	
Cm-243	ΣDOSE(j)		1.260E-05	1.230E-05	1.173E-05	9.926E-06	3.577E-06	1.161E-06	9.858E-09	6.260E-16	
Cm-243	Cm-243	4.942E-10	7.539E-10	7.361E-10	7.019E-10	5.940E-10	2.141E-10	6.947E-11	5.899E-13	3.746E-20	
Cm-243	Cm-243	1.368E-12	2.087E-12	2.037E-12	1.942E-12	1.644E-12	5.925E-13	1.923E-13	1.633E-15	1.037E-22	
Cm-243	ΣDOSE(j)		7.560E-10	7.382E-10	7.038E-10	5.956E-10	2.147E-10	6.966E-11	5.915E-13	3.756E-20	
Cm-244	Cm-244	1.371E-06	1.671E-06	1.608E-06	1.490E-06	1.139E-06	2.209E-07	3.620E-08	1.700E-11	4.289E-23	
Cm-244	Cm-244	5.750E-08	7.008E-08	6.745E-08	6.247E-08	4.777E-08	9.266E-09	1.518E-09	7.128E-13	1.799E-24	
Cm-244	ΣDOSE(j)		1.741E-06	1.676E-06	1.552E-06	1.187E-06	2.302E-07	3.772E-08	1.771E-11	4.469E-23	
Pu-240	Cm-244	5.750E-08	9.947E-11	1.646E-10	2.877E-10	6.509E-10	1.592E-09	1.765E-09	1.722E-09	1.500E-09	
Pu-240	Pu-240	5.750E-08	6.407E-07	6.405E-07	6.402E-07	6.392E-07	6.329E-07	6.260E-07	5.979E-07	5.211E-07	
Pu-240	ΣDOSE(j)		6.408E-07	6.407E-07	6.405E-07	6.398E-07	6.345E-07	6.278E-07	5.996E-07	5.226E-07	
Cm-244	Cm-244	1.000E+00	1.219E+00	1.173E+00	1.086E+00	8.308E-01	1.611E-01	2.641E-02	1.240E-05	3.128E-17	
Pu-240	Cm-244	1.000E+00	1.730E-03	2.863E-03	5.004E-03	1.132E-02	2.769E-02	3.070E-02	2.995E-02	2.608E-02	
U-236	Cm-244	1.000E+00	4.362E-12	1.181E-11	3.726E-11	2.239E-10	3.188E-09	7.633E-09	2.663E-08	8.350E-08	
U-236	Pu-240	1.000E+00	5.301E-08	8.869E-08	1.600E-07	4.093E-07	1.918E-06	3.551E-06	1.013E-05	2.982E-05	
U-236	ΣDOSE(j)		5.301E-08	8.870E-08	1.601E-07	4.095E-07	1.921E-06	3.559E-06	1.016E-05	2.990E-05	
Th-232	Cm-244	1.000E+00	1.144E-22	1.459E-22	2.987E-22	6.643E-21	6.963E-19	3.347E-18	3.925E-17	6.422E-16	
Th-232	Pu-240	1.000E+00	2.680E-19	7.145E-19	3.200E-18	2.441E-17	5.476E-16	1.895E-15	1.624E-14	2.383E-13	
Th-232	ΣDOSE(j)		2.681E-19	7.147E-19	3.200E-18	2.442E-17	5.483E-16	1.898E-15	1.627E-14	2.390E-13	
Ra-228	Cm-244	1.000E+00	3.265E-22	3.000E-22	3.329E-22	1.299E-21	4.443E-19	2.578E-18	3.479E-17	5.009E-15	
Ra-228	Pu-240	1.000E+00	2.973E-19	3.559E-19	6.521E-19	7.707E-18	3.792E-16	1.511E-15	1.446E-14	1.904E-12	
Ra-228	ΣDOSE(j)		2.976E-19	3.562E-19	6.525E-19	7.708E-18	3.797E-16	1.514E-15	1.449E-14	1.909E-12	
Th-228	Cm-244	1.000E+00	4.663E-24	4.581E-24	4.931E-24	3.478E-23	1.216E-19	7.658E-19	1.087E-17	2.144E-16	
Th-228	Pu-240	1.000E+00	2.408E-20	2.508E-20	4.046E-20	1.175E-18	1.078E-16	4.548E-16	4.527E-15	7.988E-14	
Th-228	ΣDOSE(j)		2.409E-20	2.509E-20	4.047E-20	1.175E-18	1.079E-16	4.556E-16	4.538E-15	8.010E-14	
Co-60	Co-60	1.000E+00	1.122E-01	9.840E-02	7.563E-02	3.011E-02	1.078E-04	2.163E-07	8.040E-19	0.000E+00	
Cs-134	Cs-134	1.000E+00	1.935E+00	1.382E+00	7.056E-01	6.708E-02	3.782E-08	4.859E-15	0.000E+00	0.000E+00	
Cs-137	Cs-137	1.000E+00	1.536E+00	1.500E+00	1.431E+00	1.215E+00	4.450E-01	1.471E-01	1.349E-03	1.188E-10	

Summary : RESRAD Default

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Individual Nuclide Dose Summed Over All Pathways
Parent Nuclide and Branch Fraction Indicated

Nuclide (j)	Parent (i)	THF(i)	DOSE (j,t), mrem/yr							
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	5.280E+01	1.000E+02	3.000E+02	1.000E+03
Eu-152	Eu-152	7.210E-01	2.739E-02	2.601E-02	2.347E-02	1.637E-02	1.812E-03	1.599E-04	5.451E-09	1.284E-24
Eu-152	Eu-152	2.790E-01	1.060E-02	1.007E-02	9.082E-03	6.336E-03	7.011E-04	6.187E-05	2.109E-09	4.969E-25
Eu-152	ΣDOSE (j)		3.798E-02	3.608E-02	3.255E-02	2.271E-02	2.513E-03	2.218E-04	7.560E-09	1.781E-24
Gd-152	Eu-152	2.790E-01	3.789E-16	5.625E-16	8.998E-16	1.841E-15	3.770E-15	3.984E-15	3.985E-15	4.397E-15
Sm-148	Eu-152	2.790E-01	6.002E-30	5.701E-30	5.144E-30	3.589E-30	0.000E+00	0.000E+00	0.000E+00	4.608E-29
Nd-144	Eu-152	2.790E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Eu-154	Eu-154	1.000E+00	5.517E-02	5.088E-02	4.328E-02	2.457E-02	7.705E-04	1.693E-05	1.593E-12	0.000E+00
Eu-155	Eu-155	1.000E+00	8.562E-03	7.400E-03	5.528E-03	1.992E-03	3.881E-06	3.980E-09	8.603E-22	0.000E+00
Fe-55	Fe-55	1.000E+00	1.480E-04	1.149E-04	6.925E-05	1.176E-05	2.306E-10	1.484E-15	0.000E+00	0.000E+00
H-3	H-3	1.000E+00	2.169E-01	1.844E-01	1.333E-01	4.281E-02	4.123E-05	1.944E-08	1.563E-22	0.000E+00
Nb-94	Nb-94	1.000E+00	8.656E-02	8.651E-02	8.642E-02	8.611E-02	8.423E-02	8.220E-02	7.415E-02	5.550E-02
Ni-59	Ni-59	1.000E+00	5.746E-03	5.744E-03	5.740E-03	5.725E-03	5.638E-03	5.544E-03	5.162E-03	5.528E-03
Ni-63	Ni-63	1.000E+00	1.573E-02	1.562E-02	1.539E-02	1.463E-02	1.071E-02	7.601E-03	1.774E-03	1.499E-05
Pm-147	Pm-147	1.000E+00	5.569E-03	4.275E-03	2.519E-03	3.956E-04	4.806E-09	1.824E-14	0.000E+00	0.000E+00
Sm-147	Pm-147	1.000E+00	1.629E-12	2.197E-12	2.959E-12	3.881E-12	4.048E-12	4.043E-12	4.022E-12	4.344E-12
Pu-238	Pu-238	1.850E-09	1.856E-08	1.841E-08	1.812E-08	1.713E-08	1.215E-08	8.316E-09	1.670E-09	6.198E-12
Pu-238	Pu-238	9.996E-01	1.003E+01	9.949E+00	9.791E+00	9.256E+00	6.564E+00	4.494E+00	9.021E-01	3.349E-03
Pu-238	ΣDOSE (j)		1.003E+01	9.949E+00	9.791E+00	9.256E+00	6.564E+00	4.494E+00	9.021E-01	3.349E-03
U-234	Pu-238	9.996E-01	5.327E-06	8.880E-06	1.590E-05	3.958E-05	1.581E-04	2.481E-04	3.953E-04	3.933E-04
U-234	Pu-238	1.899E-08	1.012E-13	1.687E-13	3.021E-13	7.520E-13	3.004E-12	4.715E-12	7.511E-12	7.472E-12
U-234	Pu-238	2.100E-04	1.119E-09	1.865E-09	3.339E-09	8.313E-09	3.321E-08	5.212E-08	8.304E-08	8.260E-08
U-234	Pu-238	2.771E-10	1.477E-15	2.462E-15	4.408E-15	1.097E-14	4.383E-14	6.880E-14	1.096E-13	1.090E-13
U-234	Pu-238	3.989E-12	2.126E-17	3.544E-17	6.345E-17	1.580E-16	6.309E-16	9.903E-16	1.578E-15	1.569E-15
U-234	Pu-238	1.998E-04	1.065E-09	1.774E-09	3.177E-09	7.909E-09	3.159E-08	4.959E-08	7.900E-08	7.859E-08
U-234	Pu-238	2.637E-10	1.405E-15	2.342E-15	4.194E-15	1.044E-14	4.170E-14	6.546E-14	1.043E-13	1.037E-13
U-234	Pu-238	3.795E-12	2.023E-17	3.372E-17	6.037E-17	1.503E-16	6.003E-16	9.422E-16	1.501E-15	1.493E-15
U-234	Pu-238	4.196E-08	2.236E-13	3.727E-13	6.674E-13	1.661E-12	6.636E-12	1.042E-11	1.659E-11	1.651E-11
U-234	Pu-238	5.538E-14	2.952E-19	4.920E-19	8.809E-19	2.193E-18	8.760E-18	1.375E-17	2.190E-17	2.179E-17
U-234	Pu-238	7.972E-16	4.249E-21	7.082E-21	1.268E-20	3.156E-20	1.261E-19	1.979E-19	3.153E-19	3.136E-19
U-234	Pu-238	2.000E-07	1.066E-12	1.777E-12	3.181E-12	7.919E-12	3.163E-11	4.965E-11	7.910E-11	7.869E-11
U-234	Pu-238	2.640E-13	1.407E-18	2.345E-18	4.199E-18	1.045E-17	4.175E-17	6.554E-17	1.044E-16	1.039E-16
U-234	Pu-238	3.800E-15	2.025E-20	3.376E-20	6.044E-20	1.505E-19	6.010E-19	9.433E-19	1.503E-18	1.495E-18
U-234	ΣDOSE (j)		5.330E-06	8.883E-06	1.591E-05	3.959E-05	1.582E-04	2.482E-04	3.955E-04	3.934E-04
Th-230	Pu-238	9.996E-01	1.511E-11	2.117E-11	3.702E-11	1.316E-10	1.864E-09	5.547E-09	3.100E-08	1.962E-07

Summary : RESRAD Default

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Individual Nuclide Dose Summed Over All Pathways
Parent Nuclide and Branch Fraction Indicated

Nuclide (j)	Parent (i)	THF(i)	DOSE (j,t), mrem/yr							
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	5.280E+01	1.000E+02	3.000E+02	1.000E+03
Th-230	Pu-238	1.899E-08	2.877E-19	4.028E-19	7.039E-19	2.502E-18	3.542E-17	1.054E-16	5.889E-16	3.728E-15
Th-230	Pu-238	2.100E-04	3.182E-15	4.454E-15	7.783E-15	2.765E-14	3.916E-13	1.165E-12	6.510E-12	4.122E-11
Th-230	Pu-238	2.771E-10	4.192E-21	5.871E-21	1.027E-20	3.650E-20	5.169E-19	1.538E-18	8.594E-18	5.441E-17
Th-230	Pu-238	3.989E-12	6.034E-23	8.451E-23	1.478E-22	5.253E-22	7.440E-21	2.214E-20	1.237E-19	7.831E-19
Th-230	Pu-238	1.998E-04	3.033E-15	4.244E-15	7.411E-15	2.632E-14	3.726E-13	1.108E-12	6.194E-12	3.922E-11
Th-230	Pu-238	2.637E-10	3.999E-21	5.597E-21	9.778E-21	3.473E-20	4.918E-19	1.463E-18	8.176E-18	5.177E-17
Th-230	Pu-238	3.795E-12	5.726E-23	8.025E-23	1.404E-22	4.997E-22	7.079E-21	2.106E-20	1.177E-19	7.451E-19
Th-230	Pu-238	4.196E-08	6.368E-19	8.910E-19	1.556E-18	5.528E-18	7.826E-17	2.328E-16	1.301E-15	8.237E-15
Th-230	Pu-238	5.538E-14	8.438E-25	1.179E-24	2.058E-24	7.300E-24	1.033E-22	3.073E-22	1.717E-21	1.087E-20
Th-230	Pu-238	7.972E-16	1.203E-26	1.686E-26	2.950E-26	1.050E-25	1.487E-24	4.424E-24	2.472E-23	1.565E-22
Th-230	Pu-238	2.000E-07	3.047E-18	4.259E-18	7.430E-18	2.636E-17	3.730E-16	1.110E-15	6.202E-15	3.926E-14
Th-230	Pu-238	2.640E-13	4.007E-24	5.607E-24	9.793E-24	3.478E-23	4.924E-22	1.465E-21	8.186E-21	5.183E-20
Th-230	Pu-238	3.800E-15	5.750E-26	8.052E-26	1.408E-25	5.004E-25	7.087E-24	2.109E-23	1.178E-22	7.460E-22
Th-230	ΣDOSE (j)		1.512E-11	2.118E-11	3.703E-11	1.317E-10	1.865E-09	5.549E-09	3.101E-08	1.963E-07
Ra-226	Pu-238	9.996E-01	2.310E-11	2.316E-11	2.331E-11	2.409E-11	8.533E-11	3.799E-10	6.530E-09	1.268E-06
Ra-226	Pu-238	1.899E-08	4.452E-19	4.463E-19	4.494E-19	4.662E-19	1.630E-18	7.227E-18	1.241E-16	2.410E-14
Ra-226	ΣDOSE (j)		2.310E-11	2.316E-11	2.331E-11	2.409E-11	8.533E-11	3.799E-10	6.530E-09	1.268E-06
Pb-210	Pu-238	9.996E-01	9.083E-11	9.105E-11	9.156E-11	9.306E-11	2.111E-10	1.086E-09	2.890E-08	9.606E-07
Pb-210	Pu-238	1.319E-06	1.189E-16	1.192E-16	1.199E-16	1.216E-16	2.771E-16	1.432E-15	3.814E-14	1.261E-12
Pb-210	Pu-238	2.100E-04	1.905E-14	1.910E-14	1.920E-14	1.951E-14	4.431E-14	2.282E-13	6.071E-12	2.018E-10
Pb-210	Pu-238	1.998E-04	1.812E-14	1.816E-14	1.827E-14	1.856E-14	4.215E-14	2.171E-13	5.776E-12	1.920E-10
Pb-210	Pu-238	4.196E-08	3.844E-18	3.852E-18	3.874E-18	3.936E-18	8.895E-18	4.563E-17	1.213E-15	4.032E-14
Pb-210	Pu-238	2.000E-07	1.844E-17	1.848E-17	1.859E-17	1.888E-17	4.252E-17	2.176E-16	5.783E-15	1.922E-13
Pb-210	ΣDOSE (j)		9.087E-11	9.109E-11	9.160E-11	9.310E-11	2.112E-10	1.087E-09	2.891E-08	9.610E-07
Po-210	Pu-238	9.996E-01	4.015E-11	3.998E-11	4.028E-11	4.178E-11	5.076E-10	4.310E-09	1.272E-07	2.459E-06
Po-210	Pu-238	2.100E-04	8.072E-15	8.063E-15	8.118E-15	8.449E-15	1.063E-13	9.050E-13	2.671E-11	5.165E-10
Po-210	Pu-238	1.998E-04	7.574E-15	7.561E-15	7.607E-15	7.921E-15	1.010E-13	8.609E-13	2.541E-11	4.914E-10
Po-210	Pu-238	4.196E-08	1.549E-18	1.545E-18	1.557E-18	1.615E-18	2.115E-17	1.808E-16	5.338E-15	1.032E-13
Po-210	Pu-238	2.000E-07	6.682E-18	6.702E-18	6.742E-18	6.843E-18	9.896E-17	8.598E-16	2.544E-14	4.920E-13
Po-210	ΣDOSE (j)		4.017E-11	3.999E-11	4.029E-11	4.179E-11	5.078E-10	4.312E-09	1.272E-07	2.460E-06
Pu-238	Pu-238	1.319E-06	1.324E-05	1.313E-05	1.292E-05	1.222E-05	8.664E-06	5.931E-06	1.191E-06	4.421E-09
Pu-238	Pu-238	1.899E-08	1.906E-07	1.890E-07	1.860E-07	1.759E-07	1.247E-07	8.538E-08	1.714E-08	6.363E-11
Pu-238	ΣDOSE (j)		1.343E-05	1.332E-05	1.311E-05	1.239E-05	8.789E-06	6.017E-06	1.208E-06	4.484E-09
U-234	Pu-238	1.319E-06	7.032E-12	1.172E-11	2.099E-11	5.224E-11	2.087E-10	3.276E-10	5.218E-10	5.191E-10
Th-230	Pu-238	1.319E-06	1.997E-17	2.797E-17	4.889E-17	1.738E-16	2.461E-15	7.322E-15	4.091E-14	2.590E-13
Ra-226	Pu-238	1.319E-06	3.061E-17	3.069E-17	3.089E-17	3.203E-17	1.129E-16	5.017E-16	8.620E-15	1.674E-12
Pb-210	Pu-238	1.899E-08	1.711E-18	1.715E-18	1.725E-18	1.750E-18	3.985E-18	2.059E-17	5.484E-16	1.813E-14
Pb-210	Pu-238	3.989E-12	3.615E-22	3.624E-22	3.644E-22	3.703E-22	8.407E-22	4.328E-21	1.152E-19	3.808E-18
Pb-210	Pu-238	3.795E-12	3.436E-22	3.444E-22	3.463E-22	3.518E-22	7.993E-22	4.118E-21	1.096E-19	3.623E-18
Pb-210	Pu-238	7.972E-16	7.304E-26	7.319E-26	7.361E-26	7.480E-26	1.689E-25	8.659E-25	2.302E-23	7.611E-22
Pb-210	Pu-238	3.800E-15	3.412E-25	3.421E-25	3.440E-25	3.487E-25	7.941E-25	4.117E-24	1.097E-22	3.628E-21
Pb-210	ΣDOSE (j)		1.712E-18	1.716E-18	1.726E-18	1.751E-18	3.987E-18	2.060E-17	5.486E-16	1.814E-14

Summary : RESRAD Default

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Individual Nuclide Dose Summed Over All Pathways
Parent Nuclide and Branch Fraction Indicated

Nuclide (j)	Parent (i)	THF(i)	DOSE (j,t), mrem/yr							
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	5.280E+01	1.000E+02	3.000E+02	1.000E+03
Pu-238	Pu-238	2.100E-04	2.107E-03	2.090E-03	2.056E-03	1.944E-03	1.379E-03	9.438E-04	1.895E-04	7.035E-07
Pu-238	Pu-238	2.771E-10	2.781E-09	2.759E-09	2.715E-09	2.566E-09	1.820E-09	1.246E-09	2.501E-10	9.286E-13
Pu-238	ΣDOSE (j)		2.107E-03	2.090E-03	2.056E-03	1.944E-03	1.379E-03	9.438E-04	1.895E-04	7.035E-07
Ra-226	Pu-238	2.100E-04	4.865E-15	4.878E-15	4.908E-15	5.086E-15	1.795E-14	7.981E-14	1.372E-12	2.664E-10
Ra-226	Pu-238	2.771E-10	6.397E-21	6.415E-21	6.451E-21	6.623E-21	2.360E-20	1.053E-19	1.810E-18	3.517E-16
Ra-226	Pu-238	3.989E-12	9.344E-23	9.368E-23	9.433E-23	9.785E-23	3.422E-22	1.518E-21	2.606E-20	5.062E-18
Ra-226	ΣDOSE (j)		4.865E-15	4.878E-15	4.908E-15	5.086E-15	1.795E-14	7.981E-14	1.372E-12	2.664E-10
Pb-210	Pu-238	2.771E-10	2.507E-20	2.514E-20	2.527E-20	2.566E-20	5.836E-20	3.010E-19	8.012E-18	2.649E-16
Pb-210	Pu-238	2.637E-10	2.369E-20	2.375E-20	2.388E-20	2.420E-20	5.473E-20	2.856E-19	7.622E-18	2.520E-16
Pb-210	Pu-238	5.538E-14	4.975E-24	4.989E-24	5.017E-24	5.083E-24	1.154E-23	6.002E-23	1.601E-21	5.294E-20
Pb-210	Pu-238	2.640E-13	2.372E-23	2.379E-23	2.392E-23	2.424E-23	5.515E-23	2.862E-22	7.631E-21	2.523E-19
Pb-210	ΣDOSE (j)		4.879E-20	4.892E-20	4.918E-20	4.989E-20	1.132E-19	5.869E-19	1.564E-17	5.172E-16
Pu-238	Pu-238	3.989E-12	4.003E-11	3.971E-11	3.907E-11	3.694E-11	2.620E-11	1.793E-11	3.600E-12	1.337E-14
Pu-238	Pu-238	1.998E-04	2.004E-03	1.988E-03	1.957E-03	1.850E-03	1.312E-03	8.980E-04	1.803E-04	6.693E-07
Pu-238	ΣDOSE (j)		2.004E-03	1.988E-03	1.957E-03	1.850E-03	1.312E-03	8.980E-04	1.803E-04	6.693E-07
Ra-226	Pu-238	1.998E-04	4.641E-15	4.654E-15	4.684E-15	4.859E-15	1.709E-14	7.592E-14	1.304E-12	2.533E-10
Ra-226	Pu-238	3.795E-12	8.818E-23	8.842E-23	8.901E-23	9.234E-23	3.247E-22	1.443E-21	2.478E-20	4.813E-18
Ra-226	ΣDOSE (j)		4.641E-15	4.654E-15	4.684E-15	4.859E-15	1.709E-14	7.592E-14	1.304E-12	2.533E-10
Pu-238	Pu-238	2.637E-10	2.646E-09	2.625E-09	2.583E-09	2.442E-09	1.732E-09	1.185E-09	2.380E-10	8.835E-13
Pu-238	Pu-238	3.795E-12	3.808E-11	3.778E-11	3.718E-11	3.514E-11	2.492E-11	1.706E-11	3.425E-12	1.272E-14
Pu-238	ΣDOSE (j)		2.684E-09	2.662E-09	2.620E-09	2.477E-09	1.756E-09	1.202E-09	2.414E-10	8.962E-13
Ra-226	Pu-238	2.637E-10	6.137E-21	6.154E-21	6.195E-21	6.428E-21	2.257E-20	1.002E-19	1.722E-18	3.344E-16
Pu-238	Pu-238	4.196E-08	4.210E-07	4.176E-07	4.110E-07	3.885E-07	2.755E-07	1.886E-07	3.787E-08	1.406E-10
Pu-238	Pu-238	5.538E-14	5.557E-13	5.513E-13	5.425E-13	5.128E-13	3.637E-13	2.490E-13	4.998E-14	1.856E-16
Pu-238	ΣDOSE (j)		4.210E-07	4.176E-07	4.110E-07	3.885E-07	2.755E-07	1.886E-07	3.787E-08	1.406E-10
Ra-226	Pu-238	4.196E-08	9.747E-19	9.773E-19	9.838E-19	1.021E-18	3.589E-18	1.595E-17	2.740E-16	5.321E-14
Ra-226	Pu-238	5.538E-14	1.278E-24	1.281E-24	1.288E-24	1.319E-24	4.709E-24	2.102E-23	3.616E-22	7.024E-20
Ra-226	Pu-238	7.972E-16	1.863E-26	1.868E-26	1.881E-26	1.951E-26	6.831E-26	3.031E-25	5.206E-24	1.011E-21
Ra-226	ΣDOSE (j)		9.747E-19	9.773E-19	9.838E-19	1.021E-18	3.589E-18	1.595E-17	2.740E-16	5.321E-14
Pu-238	Pu-238	7.972E-16	7.999E-15	7.935E-15	7.808E-15	7.382E-15	5.235E-15	3.584E-15	7.195E-16	2.671E-18
Pu-238	Pu-238	2.000E-07	2.007E-06	1.991E-06	1.959E-06	1.852E-06	1.313E-06	8.991E-07	1.805E-07	6.701E-10
Pu-238	ΣDOSE (j)		2.007E-06	1.991E-06	1.959E-06	1.852E-06	1.313E-06	8.991E-07	1.805E-07	6.701E-10
Ra-226	Pu-238	2.000E-07	4.628E-18	4.640E-18	4.670E-18	4.836E-18	1.708E-17	7.597E-17	1.306E-15	2.536E-13
Ra-226	Pu-238	3.800E-15	8.849E-26	8.873E-26	8.933E-26	9.269E-26	3.253E-25	1.444E-24	2.481E-23	4.818E-21
Ra-226	ΣDOSE (j)		4.628E-18	4.640E-18	4.670E-18	4.836E-18	1.708E-17	7.597E-17	1.306E-15	2.536E-13
Pu-238	Pu-238	2.640E-13	2.649E-12	2.628E-12	2.586E-12	2.445E-12	1.734E-12	1.187E-12	2.383E-13	8.845E-16
Pu-238	Pu-238	3.800E-15	3.813E-14	3.782E-14	3.722E-14	3.519E-14	2.495E-14	1.708E-14	3.429E-15	1.273E-17
Pu-238	ΣDOSE (j)		2.687E-12	2.666E-12	2.623E-12	2.480E-12	1.759E-12	1.204E-12	2.417E-13	8.973E-16

Summary : RESRAD Default

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Individual Nuclide Dose Summed Over All Pathways
Parent Nuclide and Branch Fraction Indicated

Nuclide (j)	Parent (i)	THF(i)	DOSE(j,t), mrem/yr								
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	5.280E+01	1.000E+02	3.000E+02	1.000E+03	
Ra-226	Pu-238	2.640E-13	6.146E-24	6.162E-24	6.204E-24	6.437E-24	2.259E-23	1.003E-22	1.723E-21	3.347E-19	
Pu-239	Pu-239	1.633E-06	1.820E-05	1.820E-05	1.819E-05	1.817E-05	1.805E-05	1.792E-05	1.738E-05	1.598E-05	
Pu-239	Pu-239	8.257E-06	9.201E-05	9.199E-05	9.196E-05	9.187E-05	9.126E-05	9.060E-05	8.786E-05	8.081E-05	
Pu-239	ΣDOSE(j)		1.102E-04	1.102E-04	1.102E-04	1.100E-04	1.093E-04	1.085E-04	1.052E-04	9.680E-05	
Pu-239	Pu-239	2.285E-08	2.546E-07	2.546E-07	2.545E-07	2.543E-07	2.526E-07	2.508E-07	2.432E-07	2.237E-07	
Pu-239	Pu-239	4.954E-10	5.521E-09	5.520E-09	5.518E-09	5.512E-09	5.476E-09	5.436E-09	5.272E-09	4.849E-09	
Pu-239	ΣDOSE(j)		2.602E-07	2.601E-07	2.600E-07	2.598E-07	2.581E-07	2.562E-07	2.484E-07	2.285E-07	
Pu-239	Pu-239	1.371E-12	1.528E-11	1.528E-11	1.527E-11	1.526E-11	1.516E-11	1.505E-11	1.459E-11	1.342E-11	
Pu-239	Pu-239	2.720E-03	3.031E-02	3.031E-02	3.030E-02	3.027E-02	3.007E-02	2.985E-02	2.895E-02	2.663E-02	
Pu-239	Pu-239	1.375E-02	1.533E-01	1.532E-01	1.532E-01	1.530E-01	1.520E-01	1.509E-01	1.464E-01	1.346E-01	
Pu-239	ΣDOSE(j)		1.836E-01	1.835E-01	1.835E-01	1.833E-01	1.821E-01	1.808E-01	1.753E-01	1.612E-01	
Pu-239	Pu-239	3.806E-05	4.241E-04	4.241E-04	4.240E-04	4.235E-04	4.207E-04	4.177E-04	4.050E-04	3.726E-04	
Pu-239	Pu-239	8.252E-07	9.196E-06	9.194E-06	9.192E-06	9.182E-06	9.121E-06	9.055E-06	8.782E-06	8.077E-06	
Pu-239	ΣDOSE(j)		4.333E-04	4.333E-04	4.331E-04	4.327E-04	4.298E-04	4.267E-04	4.138E-04	3.806E-04	
Pu-239	Pu-239	2.284E-09	2.545E-08	2.545E-08	2.544E-08	2.541E-08	2.524E-08	2.506E-08	2.430E-08	2.235E-08	
Pu-240	Pu-240	1.000E+00	1.114E+01	1.114E+01	1.114E+01	1.112E+01	1.101E+01	1.089E+01	1.040E+01	9.063E+00	
Pu-241	Pu-241	1.000E+00	2.102E-01	2.003E-01	1.818E-01	1.295E-01	1.630E-02	1.657E-03	1.030E-07	2.000E-22	
Pu-241	Pu-241	2.450E-05	5.389E-06	5.134E-06	4.660E-06	3.320E-06	4.178E-07	4.249E-08	2.642E-12	5.127E-27	
Pu-241	ΣDOSE(j)		2.102E-01	2.003E-01	1.818E-01	1.295E-01	1.630E-02	1.657E-03	1.031E-07	2.000E-22	
Sb-125	Sb-125	7.686E-01	6.240E-02	4.848E-02	2.925E-02	4.994E-03	1.010E-07	6.724E-13	0.000E+00	0.000E+00	
Sb-125	Sb-125	2.314E-01	1.878E-02	1.459E-02	8.805E-03	1.503E-03	3.040E-08	2.024E-13	0.000E+00	0.000E+00	
Sb-125	ΣDOSE(j)		8.118E-02	6.307E-02	3.806E-02	6.497E-03	1.314E-07	8.748E-13	0.000E+00	0.000E+00	
Te-125m	Sb-125	2.314E-01	1.813E+00	1.406E+00	8.484E-01	1.448E-01	2.929E-06	1.950E-11	0.000E+00	0.000E+00	
Sr-90	Sr-90	1.000E+00	4.362E+01	4.221E+01	3.954E+01	3.143E+01	7.730E+00	1.646E+00	2.343E-03	2.881E-13	
Tc-99	Tc-99	1.000E+00	5.142E+00	4.626E+00	3.742E+00	1.782E+00	1.907E-02	1.280E-04	7.920E-14	0.000E+00	

THF(i) is the thread fraction of the parent nuclide.

Summary : RESRAD Default

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Individual Nuclide Soil Concentration
Parent Nuclide and Branch Fraction Indicated

Nuclide (j)	Parent (i)	THF(i)	S(j,t), pCi/g							
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	5.280E+01	1.000E+02	3.000E+02	1.000E+03
Ag-108m	Ag-108m	1.000E+00	1.000E+00	9.975E-01	9.926E-01	9.757E-01	8.782E-01	7.820E-01	4.782E-01	8.550E-02
Am-241	Am-241	1.000E+00	1.000E+00	9.983E-01	9.948E-01	9.829E-01	9.129E-01	8.414E-01	5.957E-01	1.779E-01
Am-241	Pu-241	1.000E+00	0.000E+00	1.564E-03	4.466E-03	1.259E-02	2.869E-02	2.862E-02	2.046E-02	6.108E-03
Am-241	ΣS(j):		1.000E+00	9.998E-01	9.993E-01	9.955E-01	9.415E-01	8.700E-01	6.162E-01	1.840E-01
Np-237	Am-241	1.000E+00	0.000E+00	3.201E-07	9.416E-07	2.931E-06	1.044E-05	1.339E-05	1.169E-05	3.517E-06
Np-237	Np-237	1.000E+00	1.000E+00	9.821E-01	9.472E-01	8.346E-01	3.850E-01	1.640E-01	4.415E-01	1.411E-01
Np-237	Pu-241	1.000E+00	0.000E+00	2.534E-10	2.180E-09	2.075E-08	2.459E-07	4.028E-07	3.999E-07	1.208E-07
Np-237	Pu-241	2.450E-05	0.000E+00	7.662E-12	2.151E-11	5.702E-11	8.025E-11	4.075E-11	1.152E-12	3.683E-18
Np-237	ΣS(j):		1.000E+00	9.821E-01	9.472E-01	8.346E-01	3.850E-01	1.641E-01	4.427E-01	3.652E-01
U-233	Am-241	1.000E+00	0.000E+00	6.991E-13	6.209E-12	6.590E-11	1.411E-09	3.899E-09	1.505E-08	3.263E-08
U-233	Np-237	1.000E+00	0.000E+00	4.314E-06	1.271E-05	3.979E-05	1.473E-04	1.991E-04	2.296E-04	2.038E-04
U-233	Pu-241	1.000E+00	0.000E+00	3.699E-16	9.654E-15	3.183E-13	2.470E-11	9.324E-11	4.641E-10	1.074E-09
U-233	Pu-241	2.450E-05	0.000E+00	1.687E-17	1.452E-16	1.387E-15	1.694E-14	2.900E-14	3.759E-14	3.345E-14
U-233	ΣS(j):		0.000E+00	4.314E-06	1.271E-05	3.979E-05	1.473E-04	1.991E-04	2.296E-04	2.038E-04
Th-229	Am-241	1.000E+00	0.000E+00	2.204E-17	5.893E-16	2.108E-14	2.540E-12	1.413E-11	1.950E-10	1.853E-09
Th-229	Np-237	1.000E+00	0.000E+00	2.043E-10	1.817E-09	1.936E-08	4.249E-07	1.210E-06	5.378E-06	1.887E-05
Th-229	Pu-241	1.000E+00	0.000E+00	8.762E-21	6.907E-19	7.767E-17	3.602E-14	2.865E-13	5.564E-12	5.939E-11
Th-229	Pu-241	2.450E-05	0.000E+00	5.338E-22	1.394E-20	4.611E-19	3.654E-17	1.416E-16	8.079E-16	3.026E-15
Th-229	ΣS(j):		0.000E+00	2.043E-10	1.817E-09	1.936E-08	4.249E-07	1.210E-06	5.378E-06	1.887E-05
Am-243	Am-243	9.829E-01	9.829E-01	9.827E-01	9.822E-01	9.808E-01	9.717E-01	9.618E-01	9.209E-01	7.911E-01
Am-243	Am-243	2.720E-03	2.720E-03	2.720E-03	2.719E-03	2.714E-03	2.689E-03	2.662E-03	2.549E-03	2.190E-03
Am-243	Cm-243	2.359E-03	0.000E+00	2.192E-07	6.421E-07	1.972E-06	6.617E-06	8.323E-06	8.791E-06	7.558E-06
Am-243	Cm-243	6.529E-06	0.000E+00	6.067E-10	1.777E-09	5.457E-09	1.831E-08	2.304E-08	2.433E-08	2.092E-08
Am-243	Cm-243	3.301E-05	0.000E+00	3.067E-09	8.985E-09	2.759E-08	9.258E-08	1.165E-07	1.230E-07	1.058E-07
Am-243	Cm-243	9.135E-08	0.000E+00	8.489E-12	2.487E-11	7.635E-11	2.562E-10	3.223E-10	3.404E-10	2.927E-10
Am-243	Cm-243	1.981E-09	0.000E+00	1.840E-13	5.391E-13	1.655E-12	5.555E-12	6.988E-12	7.381E-12	6.346E-12
Am-243	Cm-243	5.481E-12	0.000E+00	5.094E-16	1.492E-15	4.582E-15	1.538E-14	1.934E-14	2.043E-14	1.756E-14
Am-243	Cm-243	1.416E-06	0.000E+00	1.316E-10	3.855E-10	1.184E-09	3.972E-09	4.997E-09	5.278E-09	4.538E-09
Am-243	Cm-243	3.920E-09	0.000E+00	3.642E-13	1.067E-12	3.276E-12	1.099E-11	1.383E-11	1.461E-11	1.256E-11
Am-243	Cm-243	1.982E-08	0.000E+00	1.841E-12	5.394E-12	1.656E-11	5.558E-11	6.992E-11	7.385E-11	6.349E-11
Am-243	Cm-243	5.484E-11	0.000E+00	5.096E-15	1.493E-14	4.584E-14	1.538E-13	1.935E-13	2.044E-13	1.757E-13
Am-243	Cm-243	1.189E-12	0.000E+00	1.105E-16	3.237E-16	9.938E-16	3.335E-15	4.195E-15	4.431E-15	3.810E-15
Am-243	Cm-243	3.291E-15	0.000E+00	3.058E-19	8.958E-19	2.751E-18	9.231E-18	1.161E-17	1.226E-17	1.054E-17
Am-243	ΣS(j):		9.856E-01	9.854E-01	9.850E-01	9.835E-01	9.744E-01	9.645E-01	9.235E-01	7.933E-01
Pu-239	Am-243	9.829E-01	0.000E+00	2.825E-05	8.473E-05	2.821E-04	1.477E-03	2.774E-03	8.019E-03	2.348E-02
Pu-239	Am-243	2.720E-03	0.000E+00	7.819E-08	2.345E-07	7.806E-07	4.089E-06	7.677E-06	2.219E-05	6.498E-05
Pu-239	Am-243	1.375E-02	0.000E+00	3.953E-07	1.185E-06	3.947E-06	2.067E-05	3.881E-05	1.122E-04	3.285E-04
Pu-239	Am-243	3.806E-05	0.000E+00	1.094E-09	3.281E-09	1.092E-08	5.722E-08	1.074E-07	3.105E-07	9.092E-07
Pu-239	Am-243	8.252E-07	0.000E+00	2.372E-11	7.113E-11	2.368E-10	1.240E-09	2.329E-09	6.732E-09	1.971E-08
Pu-239	Am-243	2.284E-09	0.000E+00	6.565E-14	1.969E-13	6.554E-13	3.433E-12	6.445E-12	1.863E-11	5.456E-11
Pu-239	Cm-243	2.359E-03	0.000E+00	3.164E-12	2.802E-11	2.946E-10	6.047E-09	1.633E-08	6.573E-08	2.145E-07
Pu-239	Cm-243	6.529E-06	0.000E+00	8.756E-15	7.755E-14	8.154E-13	1.674E-11	4.519E-11	1.819E-10	5.937E-10
Pu-239	Cm-243	3.301E-05	0.000E+00	4.427E-14	3.921E-13	4.123E-12	8.462E-11	2.285E-10	9.198E-10	3.002E-09

Summary : RESRAD Default

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Individual Nuclide Soil Concentration
Parent Nuclide and Branch Fraction Indicated

Nuclide (j)	Parent (i)	THF(i)	S(j,t), pCi/g							
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	5.280E+01	1.000E+02	3.000E+02	1.000E+03
Pu-239	Cm-243	9.135E-08	0.000E+00	1.225E-16	1.085E-15	1.141E-14	2.342E-13	6.323E-13	2.546E-12	8.308E-12
Pu-239	Cm-243	1.981E-09	0.000E+00	2.656E-18	2.352E-17	2.474E-16	5.077E-15	1.371E-14	5.519E-14	1.801E-13
Pu-239	Cm-243	5.481E-12	0.000E+00	7.351E-21	6.511E-20	6.846E-19	1.405E-17	3.794E-17	1.527E-16	4.985E-16
Pu-239	Cm-243	9.805E-01	0.000E+00	2.785E-05	8.160E-05	2.506E-04	8.424E-04	1.062E-03	1.135E-03	1.020E-03
Pu-239	Cm-243	2.714E-03	0.000E+00	7.709E-08	2.258E-07	6.936E-07	2.332E-06	2.940E-06	3.142E-06	2.824E-06
Pu-239	Cm-243	1.372E-02	0.000E+00	3.897E-07	1.142E-06	3.507E-06	1.179E-05	1.486E-05	1.589E-05	1.428E-05
Pu-239	Cm-243	3.797E-05	0.000E+00	1.079E-09	3.160E-09	9.705E-09	3.262E-08	4.113E-08	4.397E-08	3.951E-08
Pu-239	Cm-243	8.232E-07	0.000E+00	2.339E-11	6.851E-11	2.104E-10	7.073E-10	8.917E-10	9.532E-10	8.566E-10
Pu-239	Cm-243	2.278E-09	0.000E+00	6.472E-14	1.896E-13	5.823E-13	1.958E-12	2.468E-12	2.638E-12	2.371E-12
Pu-239	Pu-239	9.829E-01	9.829E-01	9.827E-01	9.824E-01	9.814E-01	9.749E-01	9.679E-01	9.386E-01	8.427E-01
Pu-239	ΣS(j):		9.829E-01	9.828E-01	9.826E-01	9.819E-01	9.773E-01	9.718E-01	9.479E-01	8.676E-01
U-235	Am-243	9.829E-01	0.000E+00	1.391E-14	1.251E-13	1.389E-12	3.841E-11	1.366E-10	1.186E-09	1.161E-08
U-235	Am-243	2.720E-03	0.000E+00	3.849E-17	3.463E-16	3.843E-15	1.063E-13	3.781E-13	3.282E-12	3.212E-11
U-235	Am-243	1.375E-02	0.000E+00	1.946E-16	1.751E-15	1.943E-14	5.375E-13	1.912E-12	1.659E-11	1.624E-10
U-235	Am-243	3.806E-05	0.000E+00	5.386E-19	4.846E-18	5.377E-17	1.488E-15	5.290E-15	4.592E-14	4.495E-13
U-235	Am-243	8.252E-07	0.000E+00	1.168E-20	1.051E-19	1.166E-18	3.225E-17	1.147E-16	9.955E-16	9.745E-15
U-235	Am-243	2.284E-09	0.000E+00	3.232E-23	2.908E-22	3.227E-21	8.926E-20	3.174E-19	2.755E-18	2.697E-17
U-235	Am-243	5.901E-04	0.000E+00	8.350E-18	7.512E-17	8.336E-16	2.306E-14	8.202E-14	7.119E-13	6.968E-12
U-235	Am-243	1.633E-06	0.000E+00	2.311E-20	2.079E-19	2.307E-18	6.382E-17	2.270E-16	1.970E-15	1.929E-14
U-235	Am-243	8.257E-06	0.000E+00	1.168E-19	1.051E-18	1.166E-17	3.227E-16	1.148E-15	9.961E-15	9.750E-14
U-235	Am-243	2.285E-08	0.000E+00	3.234E-22	2.909E-21	3.228E-20	8.931E-19	3.176E-18	2.757E-17	2.698E-16
U-235	Am-243	4.954E-10	0.000E+00	7.011E-24	6.307E-23	6.999E-22	1.936E-20	6.886E-20	5.977E-19	5.850E-18
U-235	Am-243	1.371E-12	0.000E+00	1.940E-26	1.746E-25	1.937E-24	5.359E-23	1.906E-22	1.654E-21	1.619E-20
U-235	Cm-243	2.359E-03	0.000E+00	1.040E-21	2.775E-20	9.858E-19	1.147E-16	6.235E-16	8.573E-15	1.018E-13
U-235	Cm-243	6.529E-06	0.000E+00	2.879E-24	7.680E-23	2.728E-21	3.176E-19	1.726E-18	2.373E-17	2.816E-16
U-235	Cm-243	3.301E-05	0.000E+00	1.456E-23	3.883E-22	1.379E-20	1.606E-18	8.724E-18	1.200E-16	1.424E-15
U-235	Cm-243	9.135E-08	0.000E+00	4.029E-26	1.075E-24	3.817E-23	4.444E-21	2.415E-20	3.320E-19	3.940E-18
U-235	Cm-243	1.981E-09	0.000E+00	8.734E-28	2.330E-26	8.276E-25	9.634E-23	5.235E-22	7.198E-21	8.543E-20
U-235	Cm-243	5.481E-12	0.000E+00	2.417E-30	6.448E-29	2.291E-27	2.666E-25	1.449E-24	1.992E-23	2.364E-22
U-235	Cm-243	1.416E-06	0.000E+00	6.246E-25	1.666E-23	5.918E-22	6.889E-20	3.743E-19	5.147E-18	6.109E-17
U-235	Cm-243	3.920E-09	0.000E+00	1.729E-27	4.611E-26	1.638E-24	1.907E-22	1.036E-21	1.424E-20	1.691E-19
U-235	Cm-243	1.982E-08	0.000E+00	8.739E-27	2.331E-25	8.281E-24	9.639E-22	5.238E-21	7.201E-20	8.548E-19
U-235	Cm-243	5.484E-11	0.000E+00	2.419E-29	6.452E-28	2.292E-26	2.668E-24	1.450E-23	1.993E-22	2.366E-21
U-235	Cm-243	1.189E-12	0.000E+00	5.244E-31	1.399E-29	4.969E-28	5.784E-26	3.143E-25	4.321E-24	5.129E-23
U-235	Cm-243	3.291E-15	0.000E+00	1.451E-33	3.871E-32	1.375E-30	1.601E-28	8.698E-28	1.196E-26	1.420E-25
U-235	Cm-243	9.805E-01	0.000E+00	1.377E-14	1.219E-13	1.282E-12	2.634E-11	7.118E-11	2.877E-10	9.535E-10
U-235	Cm-243	2.714E-03	0.000E+00	3.810E-17	3.375E-16	3.549E-15	7.289E-14	1.970E-13	7.963E-13	2.639E-12
U-235	Cm-243	1.372E-02	0.000E+00	1.926E-16	1.706E-15	1.794E-14	3.685E-13	9.959E-13	4.026E-12	1.334E-11
U-235	Cm-243	3.797E-05	0.000E+00	5.331E-19	4.722E-18	4.966E-17	1.020E-15	2.756E-15	1.114E-14	3.692E-14
U-235	Cm-243	8.232E-07	0.000E+00	1.156E-20	1.024E-19	1.077E-18	2.211E-17	5.976E-17	2.416E-16	8.005E-16
U-235	Cm-243	2.278E-09	0.000E+00	3.199E-23	2.833E-22	2.980E-21	6.120E-20	1.654E-19	6.686E-19	2.216E-18
U-235	Cm-243	5.887E-04	0.000E+00	8.265E-18	7.320E-17	7.698E-16	1.581E-14	4.273E-14	1.727E-13	5.724E-13
U-235	Cm-243	1.629E-06	0.000E+00	2.287E-20	2.026E-19	2.131E-18	4.376E-17	1.183E-16	4.781E-16	1.584E-15
U-235	Cm-243	8.237E-06	0.000E+00	1.156E-19	1.024E-18	1.077E-17	2.212E-16	5.979E-16	2.417E-15	8.010E-15
U-235	Cm-243	2.280E-08	0.000E+00	3.201E-22	2.835E-21	2.981E-20	6.123E-19	1.655E-18	6.689E-18	2.217E-17
U-235	Cm-243	4.942E-10	0.000E+00	6.939E-24	6.146E-23	6.464E-22	1.328E-20	3.588E-20	1.450E-19	4.806E-19
U-235	Cm-243	1.368E-12	0.000E+00	1.920E-26	1.701E-25	1.789E-24	3.674E-23	9.929E-23	4.014E-22	1.330E-21
U-235	Pu-239	5.901E-04	0.000E+00	5.809E-13	1.742E-12	5.800E-12	3.041E-11	5.716E-11	1.660E-10	4.935E-10

Summary : RESRAD Default

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Individual Nuclide Soil Concentration
Parent Nuclide and Branch Fraction Indicated

Nuclide (j)	Parent (i)	THF(i)	S(j,t), pCi/g							
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	5.280E+01	1.000E+02	3.000E+02	1.000E+03
U-235	Pu-239	1.633E-06	0.000E+00	1.608E-15	4.822E-15	1.605E-14	8.417E-14	1.582E-13	4.593E-13	1.366E-12
U-235	Pu-239	8.257E-06	0.000E+00	8.128E-15	2.438E-14	8.116E-14	4.255E-13	7.998E-13	2.322E-12	6.905E-12
U-235	Pu-239	2.285E-08	0.000E+00	2.250E-17	6.746E-17	2.246E-16	1.178E-15	2.213E-15	6.427E-15	1.911E-14
U-235	Pu-239	4.954E-10	0.000E+00	4.877E-19	1.463E-18	4.870E-18	2.553E-17	4.799E-17	1.393E-16	4.143E-16
U-235	Pu-239	1.371E-12	0.000E+00	1.350E-21	4.048E-21	1.348E-20	7.067E-20	1.328E-19	3.857E-19	1.147E-18
U-235	Pu-239	9.829E-01	0.000E+00	9.676E-10	2.902E-09	9.662E-09	5.066E-08	9.521E-08	2.764E-07	8.220E-07
U-235	Pu-239	2.720E-03	0.000E+00	2.678E-12	8.031E-12	2.674E-11	1.402E-10	2.635E-10	7.651E-10	2.275E-09
U-235	Pu-239	1.375E-02	0.000E+00	1.354E-11	4.060E-11	1.352E-10	7.088E-10	1.332E-09	3.868E-09	1.150E-08
U-235	Pu-239	3.806E-05	0.000E+00	3.747E-14	1.124E-13	3.741E-13	1.962E-12	3.687E-12	1.071E-11	3.183E-11
U-235	Pu-239	8.252E-07	0.000E+00	8.124E-16	2.436E-15	8.112E-15	4.253E-14	7.993E-14	2.321E-13	6.901E-13
U-235	Pu-239	2.284E-09	0.000E+00	2.248E-18	6.743E-18	2.245E-17	1.177E-16	2.212E-16	6.424E-16	1.910E-15
U-235	ΣS(j):		0.000E+00	9.845E-10	2.953E-09	9.832E-09	5.161E-08	9.708E-08	2.828E-07	8.491E-07
Pa-231	Am-243	9.829E-01	0.000E+00	9.810E-20	2.648E-18	9.796E-17	1.432E-14	9.660E-14	2.528E-12	8.400E-11
Pa-231	Am-243	2.720E-03	0.000E+00	2.715E-22	7.328E-21	2.711E-19	3.964E-17	2.673E-16	6.997E-15	2.325E-13
Pa-231	Am-243	1.375E-02	0.000E+00	1.373E-21	3.705E-20	1.371E-18	2.004E-16	1.352E-15	3.538E-14	1.175E-12
Pa-231	Am-243	3.806E-05	0.000E+00	3.799E-24	1.025E-22	3.793E-21	5.547E-19	3.741E-18	9.791E-17	3.253E-15
Pa-231	Am-243	8.252E-07	0.000E+00	8.236E-26	2.223E-24	8.224E-23	1.203E-20	8.110E-20	2.123E-18	7.053E-17
Pa-231	Am-243	2.284E-09	0.000E+00	2.279E-28	6.152E-27	2.276E-25	3.328E-23	2.245E-22	5.875E-21	1.952E-19
Pa-231	Am-243	5.901E-04	0.000E+00	5.889E-23	1.590E-21	5.881E-20	8.599E-18	5.799E-17	1.518E-15	5.043E-14
Pa-231	Am-243	1.633E-06	0.000E+00	1.630E-25	4.399E-24	1.628E-22	2.380E-20	1.605E-19	4.201E-18	1.396E-16
Pa-231	Am-243	8.257E-06	0.000E+00	8.240E-25	2.224E-23	8.229E-22	1.203E-19	8.115E-19	2.124E-17	7.057E-16
Pa-231	Am-243	2.285E-08	0.000E+00	2.281E-27	6.156E-26	2.277E-24	3.330E-22	2.246E-21	5.878E-20	1.953E-18
Pa-231	Am-243	4.954E-10	0.000E+00	4.945E-29	1.335E-27	4.938E-26	7.220E-24	4.869E-23	1.274E-21	4.234E-20
Pa-231	Am-243	1.371E-12	0.000E+00	1.368E-31	3.694E-30	1.367E-28	1.998E-26	1.348E-25	3.527E-24	1.172E-22
Pa-231	Cm-243	2.359E-03	0.000E+00	5.509E-27	4.419E-25	5.276E-23	3.388E-20	3.624E-19	1.638E-17	7.072E-16
Pa-231	Cm-243	6.529E-06	0.000E+00	1.525E-29	1.223E-27	1.460E-25	9.378E-23	1.003E-21	4.534E-20	1.957E-18
Pa-231	Cm-243	3.301E-05	0.000E+00	7.709E-29	6.184E-27	7.382E-25	4.741E-22	5.070E-21	2.292E-19	9.896E-18
Pa-231	Cm-243	9.135E-08	0.000E+00	2.134E-31	1.711E-29	2.043E-27	1.312E-24	1.403E-23	6.344E-22	2.739E-20
Pa-231	Cm-243	1.981E-09	0.000E+00	4.626E-33	3.710E-31	4.430E-29	2.845E-26	3.042E-25	1.375E-23	5.938E-22
Pa-231	Cm-243	5.481E-12	0.000E+00	1.280E-35	1.027E-33	1.226E-31	7.873E-29	8.420E-28	3.806E-26	1.643E-24
Pa-231	Cm-243	1.416E-06	0.000E+00	3.308E-30	2.653E-28	3.167E-26	2.034E-23	2.175E-22	9.834E-21	4.246E-19
Pa-231	Cm-243	3.920E-09	0.000E+00	9.154E-33	7.343E-31	8.766E-29	5.630E-26	6.021E-25	2.722E-23	1.175E-21
Pa-231	Cm-243	1.982E-08	0.000E+00	4.628E-32	3.712E-30	4.432E-28	2.846E-25	3.044E-24	1.376E-22	5.941E-21
Pa-231	Cm-243	5.484E-11	0.000E+00	1.281E-34	1.027E-32	1.227E-30	7.878E-28	8.424E-27	3.808E-25	1.644E-23
Pa-231	Cm-243	1.189E-12	0.000E+00	2.777E-36	2.228E-34	2.659E-32	1.708E-29	1.826E-28	8.257E-27	3.565E-25
Pa-231	Cm-243	3.291E-15	0.000E+00	7.686E-39	6.165E-37	7.360E-35	4.727E-32	5.055E-31	2.285E-29	9.866E-28
Pa-231	Cm-243	9.805E-01	0.000E+00	9.728E-20	2.595E-18	9.221E-17	1.075E-14	5.853E-14	8.117E-13	9.948E-12
Pa-231	Cm-243	2.714E-03	0.000E+00	2.692E-22	7.183E-21	2.552E-19	2.975E-17	1.620E-16	2.246E-15	2.753E-14
Pa-231	Cm-243	1.372E-02	0.000E+00	1.361E-21	3.631E-20	1.290E-18	1.504E-16	8.189E-16	1.136E-14	1.392E-13
Pa-231	Cm-243	3.797E-05	0.000E+00	3.767E-24	1.005E-22	3.571E-21	4.163E-19	2.267E-18	3.143E-17	3.853E-16
Pa-231	Cm-243	8.232E-07	0.000E+00	8.168E-26	2.179E-24	7.742E-23	9.026E-21	4.914E-20	6.815E-19	8.352E-18
Pa-231	Cm-243	2.278E-09	0.000E+00	2.261E-28	6.030E-27	2.143E-25	2.498E-23	1.360E-22	1.886E-21	2.312E-20
Pa-231	Cm-243	5.887E-04	0.000E+00	5.841E-23	1.558E-21	5.536E-20	6.454E-18	3.514E-17	4.873E-16	5.973E-15
Pa-231	Cm-243	1.629E-06	0.000E+00	1.616E-25	4.312E-24	1.532E-22	1.786E-20	9.725E-20	1.349E-18	1.653E-17
Pa-231	Cm-243	8.237E-06	0.000E+00	8.172E-25	2.180E-23	7.746E-22	9.031E-20	4.917E-19	6.819E-18	8.357E-17
Pa-231	Cm-243	2.280E-08	0.000E+00	2.262E-27	6.034E-26	2.144E-24	2.500E-22	1.361E-21	1.887E-20	2.313E-19
Pa-231	Cm-243	4.942E-10	0.000E+00	4.904E-29	1.308E-27	4.648E-26	5.419E-24	2.950E-23	4.091E-22	5.014E-21
Pa-231	Cm-243	1.368E-12	0.000E+00	1.357E-31	3.620E-30	1.286E-28	1.500E-26	8.165E-26	1.132E-24	1.388E-23

Summary : RESRAD Default

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Individual Nuclide Soil Concentration
Parent Nuclide and Branch Fraction Indicated

Nuclide (j)	Parent (i)	THF(i)	S(j,t), pCi/g							
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	5.280E+01	1.000E+02	3.000E+02	1.000E+03
Pa-231	Pu-239	5.901E-04	0.000E+00	6.146E-18	5.530E-17	6.138E-16	1.701E-14	6.064E-14	5.312E-13	5.371E-12
Pa-231	Pu-239	1.633E-06	0.000E+00	1.701E-20	1.530E-19	1.699E-18	4.709E-17	1.678E-16	1.470E-15	1.487E-14
Pa-231	Pu-239	8.257E-06	0.000E+00	8.599E-20	7.737E-19	8.589E-18	2.381E-16	8.485E-16	7.433E-15	7.516E-14
Pa-231	Pu-239	2.285E-08	0.000E+00	2.380E-22	2.141E-21	2.377E-20	6.589E-19	2.348E-18	2.057E-17	2.080E-16
Pa-231	Pu-239	4.954E-10	0.000E+00	5.160E-24	4.643E-23	5.153E-22	1.428E-20	5.091E-20	4.460E-19	4.510E-18
Pa-231	Pu-239	1.371E-12	0.000E+00	1.428E-26	1.285E-25	1.426E-24	3.953E-23	1.409E-22	1.234E-21	1.248E-20
Pa-231	Pu-239	9.829E-01	0.000E+00	1.024E-14	9.210E-14	1.022E-12	2.834E-11	1.010E-10	8.849E-10	8.947E-09
Pa-231	Pu-239	2.720E-03	0.000E+00	2.833E-17	2.549E-16	2.830E-15	7.843E-14	2.795E-13	2.449E-12	2.476E-11
Pa-231	Pu-239	1.375E-02	0.000E+00	1.432E-16	1.289E-15	1.431E-14	3.965E-13	1.413E-12	1.238E-11	1.252E-10
Pa-231	Pu-239	3.806E-05	0.000E+00	3.964E-19	3.567E-18	3.959E-17	1.097E-15	3.912E-15	3.427E-14	3.465E-13
Pa-231	Pu-239	8.252E-07	0.000E+00	8.594E-21	7.733E-20	8.584E-19	2.379E-17	8.480E-17	7.429E-16	7.512E-15
Pa-231	Pu-239	2.284E-09	0.000E+00	2.379E-23	2.140E-22	2.376E-21	6.585E-20	2.347E-19	2.056E-18	2.079E-17
Pa-231	ΣS(j):		0.000E+00	1.041E-14	9.371E-14	1.040E-12	2.886E-11	1.029E-10	9.037E-10	9.198E-09
Ac-227	Am-243	9.829E-01	0.000E+00	7.758E-22	6.204E-20	7.327E-18	4.455E-15	4.562E-14	1.889E-12	7.685E-11
Ac-227	Am-243	5.901E-04	0.000E+00	4.658E-25	3.724E-23	4.399E-21	2.675E-18	2.739E-17	1.134E-15	4.614E-14
Ac-227	Cm-243	2.359E-03	0.000E+00	3.492E-29	8.329E-27	3.213E-24	9.111E-21	1.545E-19	1.187E-17	6.447E-16
Ac-227	Cm-243	1.416E-06	0.000E+00	2.097E-32	5.001E-30	1.929E-27	5.470E-24	9.278E-23	7.129E-21	3.870E-19
Ac-227	Cm-243	9.805E-01	0.000E+00	7.703E-22	6.102E-20	6.974E-18	3.493E-15	2.937E-14	6.441E-13	9.348E-12
Ac-227	Cm-243	5.887E-04	0.000E+00	4.625E-25	3.663E-23	4.187E-21	2.097E-18	1.763E-17	3.867E-16	5.612E-15
Ac-227	Pu-239	5.901E-04	0.000E+00	6.470E-20	1.719E-18	6.028E-17	6.578E-15	3.407E-14	4.328E-13	5.061E-12
Ac-227	Pu-239	9.829E-01	0.000E+00	1.078E-16	2.864E-15	1.004E-13	1.096E-11	5.676E-11	7.209E-10	8.429E-09
Ac-227	ΣS(j):		0.000E+00	1.078E-16	2.866E-15	1.005E-13	1.097E-11	5.687E-11	7.239E-10	8.521E-09
Ac-227	Am-243	2.720E-03	0.000E+00	2.147E-24	1.717E-22	2.028E-20	1.233E-17	1.263E-16	5.227E-15	2.127E-13
Ac-227	Am-243	1.375E-02	0.000E+00	1.086E-23	8.680E-22	1.025E-19	6.234E-17	6.383E-16	2.643E-14	1.075E-12
Ac-227	Am-243	1.633E-06	0.000E+00	1.289E-27	1.031E-25	1.217E-23	7.403E-21	7.580E-20	3.138E-18	1.277E-16
Ac-227	Cm-243	6.529E-06	0.000E+00	9.665E-32	2.305E-29	8.893E-27	2.522E-23	4.277E-22	3.286E-20	1.784E-18
Ac-227	Cm-243	3.920E-09	0.000E+00	5.803E-35	1.384E-32	5.339E-30	1.514E-26	2.568E-25	1.973E-23	1.071E-21
Ac-227	Cm-243	2.714E-03	0.000E+00	2.132E-24	1.689E-22	1.930E-20	9.668E-18	8.129E-17	1.783E-15	2.587E-14
Ac-227	Cm-243	1.629E-06	0.000E+00	1.280E-27	1.014E-25	1.159E-23	5.805E-21	4.880E-20	1.070E-18	1.553E-17
Ac-227	Pu-239	1.633E-06	0.000E+00	1.791E-22	4.758E-21	1.668E-19	1.821E-17	9.431E-17	1.198E-15	1.401E-14
Ac-227	Pu-239	2.720E-03	0.000E+00	2.983E-19	7.926E-18	2.779E-16	3.033E-14	1.571E-13	1.995E-12	2.333E-11
Ac-227	ΣS(j):		0.000E+00	2.985E-19	7.932E-18	2.782E-16	3.043E-14	1.580E-13	2.030E-12	2.466E-11
Am-243	Am-243	1.375E-02	1.375E-02	1.375E-02	1.374E-02	1.372E-02	1.360E-02	1.346E-02	1.289E-02	1.107E-02
Am-243	Am-243	3.806E-05	3.806E-05	3.805E-05	3.804E-05	3.798E-05	3.763E-05	3.725E-05	3.566E-05	3.064E-05
Am-243	ΣS(j):		1.379E-02	1.379E-02	1.378E-02	1.376E-02	1.363E-02	1.349E-02	1.292E-02	1.110E-02
Ac-227	Am-243	3.806E-05	0.000E+00	3.004E-26	2.402E-24	2.837E-22	1.725E-19	1.767E-18	7.314E-17	2.976E-15
Ac-227	Am-243	8.252E-07	0.000E+00	6.514E-28	5.209E-26	6.152E-24	3.741E-21	3.830E-20	1.586E-18	6.452E-17
Ac-227	Am-243	2.285E-08	0.000E+00	1.804E-29	1.442E-27	1.704E-25	1.036E-22	1.061E-21	4.391E-20	1.787E-18
Ac-227	Cm-243	9.135E-08	0.000E+00	1.352E-33	3.226E-31	1.244E-28	3.528E-25	5.985E-24	4.598E-22	2.497E-20
Ac-227	Cm-243	5.484E-11	0.000E+00	8.119E-37	1.936E-34	7.471E-32	2.118E-28	3.593E-27	2.761E-25	1.499E-23
Ac-227	Cm-243	3.797E-05	0.000E+00	2.983E-26	2.363E-24	2.701E-22	1.353E-19	1.137E-18	2.494E-17	3.620E-16
Ac-227	Cm-243	2.280E-08	0.000E+00	1.791E-29	1.419E-27	1.621E-25	8.122E-23	6.828E-22	1.498E-20	2.173E-19
Ac-227	Pu-239	2.285E-08	0.000E+00	2.506E-24	6.658E-23	2.335E-21	2.548E-19	1.320E-18	1.676E-17	1.960E-16
Ac-227	Pu-239	3.806E-05	0.000E+00	4.174E-21	1.109E-19	3.889E-18	4.243E-16	2.198E-15	2.792E-14	3.264E-13
Ac-227	ΣS(j):		0.000E+00	4.176E-21	1.110E-19	3.891E-18	4.249E-16	2.202E-15	2.803E-14	3.300E-13

Summary : RESRAD Default

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Individual Nuclide Soil Concentration
Parent Nuclide and Branch Fraction Indicated

Nuclide (j)	Parent (i)	THF(i)	S(j,t), pCi/g							
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	5.280E+01	1.000E+02	3.000E+02	1.000E+03
Am-243	Am-243	8.252E-07	8.252E-07	8.250E-07	8.247E-07	8.234E-07	8.158E-07	8.075E-07	7.732E-07	6.642E-07
Am-243	Am-243	2.284E-09	2.284E-09	2.283E-09	2.282E-09	2.279E-09	2.258E-09	2.235E-09	2.140E-09	1.838E-09
Am-243	ΣS(j):		8.275E-07	8.273E-07	8.270E-07	8.257E-07	8.181E-07	8.097E-07	7.753E-07	6.661E-07
Ac-227	Am-243	2.284E-09	0.000E+00	1.803E-30	1.442E-28	1.703E-26	1.035E-23	1.060E-22	4.388E-21	1.786E-19
Ac-227	Am-243	1.371E-12	0.000E+00	1.082E-33	8.654E-32	1.022E-29	6.216E-27	6.364E-26	2.635E-24	1.072E-22
Ac-227	Cm-243	5.481E-12	0.000E+00	8.115E-38	1.935E-35	7.467E-33	2.117E-29	3.591E-28	2.759E-26	1.498E-24
Ac-227	Cm-243	3.291E-15	0.000E+00	4.872E-41	1.162E-38	4.483E-36	1.271E-32	2.156E-31	1.657E-29	8.993E-28
Ac-227	Cm-243	2.278E-09	0.000E+00	1.790E-30	1.418E-28	1.621E-26	8.117E-24	6.825E-23	1.497E-21	2.172E-20
Ac-227	Cm-243	1.368E-12	0.000E+00	1.075E-33	8.512E-32	9.729E-30	4.873E-27	4.097E-26	8.986E-25	1.304E-23
Ac-227	Pu-239	1.371E-12	0.000E+00	1.504E-28	3.995E-27	1.401E-25	1.529E-23	7.918E-23	1.006E-21	1.176E-20
Ac-227	Pu-239	2.284E-09	0.000E+00	2.504E-25	6.655E-24	2.333E-22	2.546E-20	1.319E-19	1.675E-18	1.959E-17
Ac-227	ΣS(j):		0.000E+00	2.506E-25	6.659E-24	2.335E-22	2.550E-20	1.321E-19	1.682E-18	1.980E-17
Am-243	Am-243	5.901E-04	5.901E-04	5.900E-04	5.897E-04	5.888E-04	5.834E-04	5.774E-04	5.529E-04	4.750E-04
Am-243	Am-243	1.633E-06	1.633E-06	1.633E-06	1.632E-06	1.630E-06	1.615E-06	1.598E-06	1.530E-06	1.315E-06
Am-243	ΣS(j):		5.917E-04	5.916E-04	5.913E-04	5.904E-04	5.850E-04	5.790E-04	5.544E-04	4.763E-04
Pu-239	Am-243	5.901E-04	0.000E+00	1.696E-08	5.087E-08	1.693E-07	8.870E-07	1.665E-06	4.814E-06	1.410E-05
Pu-239	Am-243	1.633E-06	0.000E+00	4.694E-11	1.408E-10	4.686E-10	2.455E-09	4.609E-09	1.332E-08	3.901E-08
Pu-239	Am-243	8.257E-06	0.000E+00	2.373E-10	7.117E-10	2.369E-09	1.241E-08	2.330E-08	6.736E-08	1.972E-07
Pu-239	Am-243	2.285E-08	0.000E+00	6.568E-13	1.970E-12	6.557E-12	3.435E-11	6.449E-11	1.864E-10	5.459E-10
Pu-239	Am-243	4.954E-10	0.000E+00	1.424E-14	4.271E-14	1.422E-13	7.447E-13	1.398E-12	4.042E-12	1.183E-11
Pu-239	Am-243	1.371E-12	0.000E+00	3.941E-17	1.182E-16	3.935E-16	2.061E-15	3.870E-15	1.119E-14	3.275E-14
Pu-239	Cm-243	1.416E-06	0.000E+00	1.899E-15	1.682E-14	1.769E-13	3.631E-12	9.803E-12	3.946E-11	1.288E-10
Pu-239	Cm-243	3.920E-09	0.000E+00	5.256E-18	4.656E-17	4.896E-16	1.005E-14	2.713E-14	1.092E-13	3.565E-13
Pu-239	Cm-243	1.982E-08	0.000E+00	2.657E-17	2.354E-16	2.475E-15	5.080E-14	1.372E-13	5.522E-13	1.802E-12
Pu-239	Cm-243	5.484E-11	0.000E+00	7.355E-20	6.514E-19	6.850E-18	1.406E-16	3.796E-16	1.528E-15	4.988E-15
Pu-239	Cm-243	1.189E-12	0.000E+00	1.595E-21	1.412E-20	1.485E-19	3.048E-18	8.230E-18	3.313E-17	1.081E-16
Pu-239	Cm-243	3.291E-15	0.000E+00	4.413E-24	3.909E-23	4.110E-22	8.436E-21	2.278E-20	9.170E-20	2.993E-19
Pu-239	Cm-243	5.887E-04	0.000E+00	1.672E-08	4.899E-08	1.505E-07	5.058E-07	6.377E-07	6.816E-07	6.125E-07
Pu-239	Cm-243	1.629E-06	0.000E+00	4.628E-11	1.356E-10	4.164E-10	1.400E-09	1.765E-09	1.886E-09	1.695E-09
Pu-239	Cm-243	8.237E-06	0.000E+00	2.340E-10	6.854E-10	2.105E-09	7.077E-09	8.922E-09	9.537E-09	8.571E-09
Pu-239	Cm-243	2.280E-08	0.000E+00	6.476E-13	1.897E-12	5.826E-12	1.959E-11	2.469E-11	2.640E-11	2.372E-11
Pu-239	Cm-243	4.942E-10	0.000E+00	1.404E-14	4.113E-14	1.263E-13	4.246E-13	5.354E-13	5.723E-13	5.143E-13
Pu-239	Cm-243	1.368E-12	0.000E+00	3.886E-17	1.138E-16	3.496E-16	1.175E-15	1.482E-15	1.584E-15	1.423E-15
Pu-239	Pu-239	5.901E-04	5.901E-04	5.900E-04	5.898E-04	5.892E-04	5.853E-04	5.811E-04	5.635E-04	5.059E-04
Pu-239	ΣS(j):		5.901E-04	5.900E-04	5.899E-04	5.895E-04	5.867E-04	5.834E-04	5.691E-04	5.209E-04
Am-243	Am-243	8.257E-06	8.257E-06	8.255E-06	8.251E-06	8.239E-06	8.163E-06	8.079E-06	7.736E-06	6.646E-06
Am-243	Am-243	2.285E-08	2.285E-08	2.285E-08	2.284E-08	2.280E-08	2.259E-08	2.236E-08	2.141E-08	1.839E-08
Am-243	ΣS(j):		8.280E-06	8.278E-06	8.274E-06	8.262E-06	8.185E-06	8.102E-06	7.758E-06	6.664E-06
Ac-227	Am-243	8.257E-06	0.000E+00	6.517E-27	5.211E-25	6.155E-23	3.743E-20	3.832E-19	1.587E-17	6.456E-16
Ac-227	Cm-243	3.301E-05	0.000E+00	4.887E-31	1.165E-28	4.496E-26	1.275E-22	2.162E-21	1.661E-19	9.020E-18
Ac-227	Cm-243	1.982E-08	0.000E+00	2.934E-34	6.997E-32	2.699E-29	7.653E-26	1.298E-24	9.975E-23	5.415E-21
Ac-227	Cm-243	1.372E-02	0.000E+00	1.078E-23	8.538E-22	9.758E-20	4.888E-17	4.110E-16	9.013E-15	1.308E-13
Ac-227	Cm-243	8.237E-06	0.000E+00	6.471E-27	5.126E-25	5.859E-23	2.935E-20	2.467E-19	5.411E-18	7.853E-17
Ac-227	Pu-239	8.257E-06	0.000E+00	9.054E-22	2.406E-20	8.435E-19	9.205E-17	4.768E-16	6.056E-15	7.081E-14

Summary : RESRAD Default

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Individual Nuclide Soil Concentration
Parent Nuclide and Branch Fraction Indicated

Nuclide (j)	Parent (i)	THF(i)	S(j,t), pCi/g							
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	5.280E+01	1.000E+02	3.000E+02	1.000E+03
Ac-227	Pu-239	1.375E-02	0.000E+00	1.508E-18	4.007E-17	1.405E-15	1.533E-13	7.942E-13	1.009E-11	1.179E-10
Ac-227	ΣS(j):		0.000E+00	1.509E-18	4.010E-17	1.406E-15	1.535E-13	7.950E-13	1.010E-11	1.181E-10
Am-243	Am-243	4.954E-10	4.954E-10	4.953E-10	4.951E-10	4.944E-10	4.898E-10	4.848E-10	4.642E-10	3.988E-10
Am-243	Am-243	1.371E-12	1.371E-12	1.371E-12	1.370E-12	1.368E-12	1.356E-12	1.342E-12	1.285E-12	1.104E-12
Am-243	ΣS(j):		4.968E-10	4.967E-10	4.965E-10	4.957E-10	4.911E-10	4.861E-10	4.655E-10	3.999E-10
Ac-227	Am-243	4.954E-10	0.000E+00	3.911E-31	3.127E-29	3.693E-27	2.246E-24	2.299E-23	9.520E-22	3.874E-20
Ac-227	Cm-243	1.981E-09	0.000E+00	2.932E-35	6.993E-33	2.698E-30	7.649E-27	1.298E-25	9.969E-24	5.413E-22
Ac-227	Cm-243	1.189E-12	0.000E+00	1.760E-38	4.198E-36	1.620E-33	4.592E-30	7.790E-29	5.985E-27	3.249E-25
Ac-227	Cm-243	8.232E-07	0.000E+00	6.468E-28	5.123E-26	5.855E-24	2.933E-21	2.466E-20	5.408E-19	7.849E-18
Ac-227	Cm-243	4.942E-10	0.000E+00	3.883E-31	3.076E-29	3.515E-27	1.761E-24	1.480E-23	3.247E-22	4.712E-21
Ac-227	Pu-239	4.954E-10	0.000E+00	5.432E-26	1.444E-24	5.061E-23	5.523E-21	2.861E-20	3.634E-19	4.249E-18
Ac-227	Pu-239	8.252E-07	0.000E+00	9.049E-23	2.404E-21	8.430E-20	9.200E-18	4.765E-17	6.053E-16	7.077E-15
Ac-227	ΣS(j):		0.000E+00	9.054E-23	2.406E-21	8.436E-20	9.208E-18	4.771E-17	6.062E-16	7.089E-15
C-14	C-14	1.000E+00	1.000E+00	9.845E-01	9.542E-01	8.553E-01	4.382E-01	2.096E-01	9.209E-03	1.637E-07
Cm-243	Cm-243	2.359E-03	2.359E-03	2.303E-03	2.196E-03	1.858E-03	6.698E-04	2.174E-04	1.846E-06	1.041E-13
Cm-243	Cm-243	6.529E-06	6.529E-06	6.375E-06	6.078E-06	5.144E-06	1.854E-06	6.016E-07	5.108E-09	2.881E-16
Cm-243	ΣS(j):		2.365E-03	2.310E-03	2.202E-03	1.864E-03	6.717E-04	2.180E-04	1.851E-06	1.044E-13
Cm-243	Cm-243	3.301E-05	3.301E-05	3.223E-05	3.073E-05	2.600E-05	9.372E-06	3.041E-06	2.582E-08	1.456E-15
Cm-243	Cm-243	9.135E-08	9.135E-08	8.920E-08	8.504E-08	7.197E-08	2.594E-08	8.418E-09	7.147E-11	4.031E-18
Cm-243	ΣS(j):		3.310E-05	3.232E-05	3.081E-05	2.608E-05	9.398E-06	3.050E-06	2.589E-08	1.461E-15
Cm-243	Cm-243	1.981E-09	1.981E-09	1.934E-09	1.844E-09	1.560E-09	5.624E-10	1.825E-10	1.550E-12	8.740E-20
Cm-243	Cm-243	5.481E-12	5.481E-12	5.352E-12	5.103E-12	4.319E-12	1.556E-12	5.051E-13	4.288E-15	2.419E-22
Cm-243	ΣS(j):		1.986E-09	1.939E-09	1.849E-09	1.565E-09	5.639E-10	1.830E-10	1.554E-12	8.764E-20
Cm-243	Cm-243	1.416E-06	1.416E-06	1.383E-06	1.318E-06	1.116E-06	4.021E-07	1.305E-07	1.108E-09	6.249E-17
Cm-243	Cm-243	3.920E-09	3.920E-09	3.827E-09	3.649E-09	3.088E-09	1.113E-09	3.612E-10	3.067E-12	1.730E-19
Cm-243	ΣS(j):		1.420E-06	1.387E-06	1.322E-06	1.119E-06	4.032E-07	1.309E-07	1.111E-09	6.267E-17
Cm-243	Cm-243	1.982E-08	1.982E-08	1.935E-08	1.845E-08	1.561E-08	5.627E-09	1.826E-09	1.550E-11	8.744E-19
Cm-243	Cm-243	5.484E-11	5.484E-11	5.355E-11	5.106E-11	4.321E-11	1.557E-11	5.054E-12	4.291E-14	2.420E-21
Cm-243	ΣS(j):		1.987E-08	1.940E-08	1.850E-08	1.566E-08	5.642E-09	1.831E-09	1.555E-11	8.768E-19
Cm-243	Cm-243	1.189E-12	1.189E-12	1.161E-12	1.107E-12	9.368E-13	3.376E-13	1.096E-13	9.303E-16	5.247E-23
Cm-243	Cm-243	3.291E-15	3.291E-15	3.213E-15	3.064E-15	2.593E-15	9.344E-16	3.032E-16	2.575E-18	1.452E-25
Cm-243	ΣS(j):		1.192E-12	1.164E-12	1.110E-12	9.394E-13	3.386E-13	1.099E-13	9.328E-16	5.261E-23
Cm-243	Cm-243	9.805E-01	9.805E-01	9.574E-01	9.128E-01	7.725E-01	2.784E-01	9.035E-02	7.671E-04	4.327E-11
Cm-243	Cm-243	2.714E-03	2.714E-03	2.650E-03	2.526E-03	2.138E-03	7.706E-04	2.501E-04	2.123E-06	1.198E-13
Cm-243	ΣS(j):		9.832E-01	9.601E-01	9.154E-01	7.747E-01	2.792E-01	9.060E-02	7.693E-04	4.339E-11
Cm-243	Cm-243	1.372E-02	1.372E-02	1.340E-02	1.277E-02	1.081E-02	3.896E-03	1.264E-03	1.073E-05	6.054E-13
Cm-243	Cm-243	3.797E-05	3.797E-05	3.708E-05	3.535E-05	2.992E-05	1.078E-05	3.499E-06	2.971E-08	1.676E-15
Cm-243	ΣS(j):		1.376E-02	1.343E-02	1.281E-02	1.084E-02	3.907E-03	1.268E-03	1.076E-05	6.071E-13

Summary : RESRAD Default

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Individual Nuclide Soil Concentration
Parent Nuclide and Branch Fraction Indicated

Nuclide (j)	Parent (i)	THF(i)	S(j,t), pCi/g								
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	5.280E+01	1.000E+02	3.000E+02	1.000E+03	
Cm-243	Cm-243	8.232E-07	8.232E-07	8.038E-07	7.664E-07	6.486E-07	2.338E-07	7.586E-08	6.441E-10	3.633E-17	
Cm-243	Cm-243	2.278E-09	2.278E-09	2.225E-09	2.121E-09	1.795E-09	6.470E-10	2.099E-10	1.783E-12	1.005E-19	
Cm-243	ΣS(j):		8.255E-07	8.061E-07	7.685E-07	6.504E-07	2.344E-07	7.607E-08	6.459E-10	3.643E-17	
Cm-243	Cm-243	5.887E-04	5.887E-04	5.748E-04	5.480E-04	4.638E-04	1.672E-04	5.424E-05	4.606E-07	2.598E-14	
Cm-243	Cm-243	1.629E-06	1.629E-06	1.591E-06	1.517E-06	1.284E-06	4.626E-07	1.501E-07	1.275E-09	7.189E-17	
Cm-243	ΣS(j):		5.903E-04	5.764E-04	5.495E-04	4.651E-04	1.676E-04	5.439E-05	4.618E-07	2.605E-14	
Cm-243	Cm-243	8.237E-06	8.237E-06	8.043E-06	7.668E-06	6.489E-06	2.339E-06	7.590E-07	6.444E-09	3.635E-16	
Cm-243	Cm-243	2.280E-08	2.280E-08	2.226E-08	2.122E-08	1.796E-08	6.473E-09	2.101E-09	1.784E-11	1.006E-18	
Cm-243	ΣS(j):		8.260E-06	8.065E-06	7.689E-06	6.507E-06	2.345E-06	7.611E-07	6.462E-09	3.645E-16	
Cm-243	Cm-243	4.942E-10	4.942E-10	4.826E-10	4.601E-10	3.894E-10	1.403E-10	4.554E-11	3.867E-13	2.181E-20	
Cm-243	Cm-243	1.368E-12	1.368E-12	1.336E-12	1.273E-12	1.078E-12	3.884E-13	1.260E-13	1.070E-15	6.036E-23	
Cm-243	ΣS(j):		4.956E-10	4.839E-10	4.614E-10	3.905E-10	1.407E-10	4.567E-11	3.877E-13	2.187E-20	
Cm-244	Cm-244	1.371E-06	1.371E-06	1.319E-06	1.222E-06	9.346E-07	1.813E-07	2.970E-08	1.394E-11	3.126E-23	
Cm-244	Cm-244	5.750E-08	5.750E-08	5.534E-08	5.126E-08	3.920E-08	7.603E-09	1.246E-09	5.848E-13	1.311E-24	
Cm-244	ΣS(j):		1.429E-06	1.375E-06	1.273E-06	9.738E-07	1.889E-07	3.095E-08	1.453E-11	3.257E-23	
Pu-240	Cm-244	5.750E-08	0.000E+00	5.956E-12	1.720E-11	5.038E-11	1.364E-10	1.523E-10	1.488E-10	1.266E-10	
Pu-240	Pu-240	5.750E-08	5.750E-08	5.749E-08	5.746E-08	5.737E-08	5.680E-08	5.619E-08	5.366E-08	4.565E-08	
Pu-240	ΣS(j):		5.750E-08	5.749E-08	5.748E-08	5.742E-08	5.694E-08	5.634E-08	5.380E-08	4.578E-08	
Cm-244	Cm-244	1.000E+00	1.000E+00	9.624E-01	8.914E-01	6.817E-01	1.322E-01	2.167E-02	1.017E-05	2.280E-17	
Pu-240	Cm-244	1.000E+00	0.000E+00	1.036E-04	2.992E-04	8.761E-04	2.372E-03	2.649E-03	2.587E-03	2.201E-03	
U-236	Cm-244	1.000E+00	0.000E+00	1.543E-12	1.353E-11	1.379E-10	2.439E-09	5.974E-09	2.113E-08	6.527E-08	
U-236	Pu-240	1.000E+00	0.000E+00	2.959E-08	8.874E-08	2.954E-07	1.546E-06	2.901E-06	8.358E-06	2.419E-05	
U-236	ΣS(j):		0.000E+00	2.959E-08	8.875E-08	2.955E-07	1.549E-06	2.907E-06	8.379E-06	2.426E-05	
Th-232	Cm-244	1.000E+00	0.000E+00	2.545E-23	6.741E-22	2.339E-20	2.428E-18	1.216E-17	1.467E-16	1.675E-15	
Th-232	Pu-240	1.000E+00	0.000E+00	7.300E-19	6.568E-18	7.291E-17	2.021E-15	7.202E-15	6.309E-14	6.382E-13	
Th-232	ΣS(j):		0.000E+00	7.300E-19	6.569E-18	7.293E-17	2.023E-15	7.214E-15	6.324E-14	6.398E-13	
Ra-228	Cm-244	1.000E+00	0.000E+00	7.503E-25	5.710E-23	5.730E-21	1.651E-18	9.973E-18	1.383E-16	1.648E-15	
Ra-228	Pu-240	1.000E+00	0.000E+00	2.847E-20	7.251E-19	2.224E-17	1.487E-15	6.112E-15	5.976E-14	6.283E-13	
Ra-228	ΣS(j):		0.000E+00	2.847E-20	7.252E-19	2.224E-17	1.488E-15	6.122E-15	5.990E-14	6.300E-13	
Th-228	Cm-244	1.000E+00	0.000E+00	5.155E-26	1.062E-23	2.613E-21	1.416E-18	9.276E-18	1.355E-16	1.639E-15	
Th-228	Pu-240	1.000E+00	0.000E+00	2.418E-21	1.635E-19	1.165E-17	1.320E-15	5.760E-15	5.866E-14	6.251E-13	
Th-228	ΣS(j):		0.000E+00	2.418E-21	1.635E-19	1.165E-17	1.321E-15	5.770E-15	5.880E-14	6.267E-13	
Co-60	Co-60	1.000E+00	1.000E+00	8.767E-01	6.738E-01	2.682E-01	9.605E-04	1.928E-06	7.163E-18	0.000E+00	
Cs-134	Cs-134	1.000E+00	1.000E+00	7.145E-01	3.648E-01	3.467E-02	1.955E-08	2.511E-15	1.541E-44	0.000E+00	
Cs-137	Cs-137	1.000E+00	1.000E+00	9.768E-01	9.320E-01	7.909E-01	2.898E-01	9.576E-02	8.782E-04	6.485E-11	

Summary : RESRAD Default

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Individual Nuclide Soil Concentration
Parent Nuclide and Branch Fraction Indicated

Nuclide (j)	Parent (i)	THF(i)	S(j,t), pCi/g								
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	5.280E+01	1.000E+02	3.000E+02	1.000E+03	
Eu-152	Eu-152	7.210E-01	7.210E-01	6.849E-01	6.179E-01	4.311E-01	4.770E-02	4.210E-03	1.435E-07	3.319E-23	
Eu-152	Eu-152	2.790E-01	2.790E-01	2.650E-01	2.391E-01	1.668E-01	1.846E-02	1.629E-03	5.553E-08	1.284E-23	
Eu-152	ΣS(j):		1.000E+00	9.499E-01	8.570E-01	5.979E-01	6.616E-02	5.839E-03	1.990E-07	4.603E-23	
Gd-152	Eu-152	2.790E-01	0.000E+00	1.745E-15	4.978E-15	1.400E-14	3.248E-14	3.454E-14	3.456E-14	3.393E-14	
Sm-148	Eu-152	2.790E-01	0.000E+00	8.715E-32	7.584E-31	7.521E-30	1.193E-28	2.775E-28	9.600E-28	3.294E-27	
Nd-144	Eu-152	2.790E-01	0.000E+00	0.000E+00	0.000E+00	8.408E-45	7.497E-43	3.561E-42	4.053E-41	4.717E-40	
Eu-154	Eu-154	1.000E+00	1.000E+00	9.223E-01	7.845E-01	4.453E-01	1.397E-02	3.068E-04	2.888E-11	7.389E-36	
Eu-155	Eu-155	1.000E+00	1.000E+00	8.643E-01	6.457E-01	2.327E-01	4.533E-04	4.649E-07	1.005E-19	0.000E+00	
Fe-55	Fe-55	1.000E+00	1.000E+00	7.763E-01	4.678E-01	7.945E-02	1.558E-06	1.003E-11	1.008E-33	0.000E+00	
H-3	H-3	1.000E+00	1.000E+00	8.502E-01	6.146E-01	1.974E-01	1.901E-04	8.965E-08	7.205E-22	0.000E+00	
Nb-94	Nb-94	1.000E+00	1.000E+00	9.995E-01	9.985E-01	9.949E-01	9.731E-01	9.497E-01	8.565E-01	5.968E-01	
Ni-59	Ni-59	1.000E+00	1.000E+00	9.996E-01	9.989E-01	9.964E-01	9.813E-01	9.649E-01	8.984E-01	6.997E-01	
Ni-63	Ni-63	1.000E+00	1.000E+00	9.928E-01	9.784E-01	9.298E-01	6.811E-01	4.831E-01	1.128E-01	6.927E-04	
Pm-147	Pm-147	1.000E+00	1.000E+00	7.676E-01	4.523E-01	7.104E-02	8.631E-07	3.275E-12	3.514E-35	0.000E+00	
Sm-147	Pm-147	1.000E+00	0.000E+00	5.746E-12	1.354E-11	2.297E-11	2.470E-11	2.466E-11	2.453E-11	2.409E-11	
Pu-238	Pu-238	1.850E-09	1.850E-09	1.835E-09	1.806E-09	1.707E-09	1.211E-09	8.289E-10	1.664E-10	6.030E-13	
Pu-238	Pu-238	9.996E-01	9.996E-01	9.916E-01	9.758E-01	9.225E-01	6.542E-01	4.479E-01	8.990E-02	3.258E-04	
Pu-238	ΣS(j):		9.996E-01	9.916E-01	9.758E-01	9.225E-01	6.542E-01	4.479E-01	8.990E-02	3.258E-04	
U-234	Pu-238	9.996E-01	0.000E+00	2.811E-06	8.363E-06	2.710E-05	1.209E-04	1.921E-04	3.086E-04	3.014E-04	
U-234	Pu-238	1.899E-08	0.000E+00	5.340E-14	1.589E-13	5.148E-13	2.296E-12	3.650E-12	5.864E-12	5.727E-12	
U-234	Pu-238	2.100E-04	0.000E+00	5.904E-10	1.757E-09	5.691E-09	2.539E-08	4.035E-08	6.482E-08	6.331E-08	
U-234	Pu-238	2.771E-10	0.000E+00	7.793E-16	2.319E-15	7.512E-15	3.351E-14	5.326E-14	8.557E-14	8.357E-14	
U-234	Pu-238	3.989E-12	0.000E+00	1.122E-17	3.338E-17	1.081E-16	4.823E-16	7.667E-16	1.232E-15	1.203E-15	
U-234	Pu-238	1.998E-04	0.000E+00	5.617E-10	1.671E-09	5.415E-09	2.415E-08	3.839E-08	6.168E-08	6.023E-08	
U-234	Pu-238	2.637E-10	0.000E+00	7.414E-16	2.206E-15	7.147E-15	3.188E-14	5.068E-14	8.141E-14	7.951E-14	
U-234	Pu-238	3.795E-12	0.000E+00	1.067E-17	3.176E-17	1.029E-16	4.589E-16	7.294E-16	1.172E-15	1.144E-15	
U-234	Pu-238	4.196E-08	0.000E+00	1.180E-13	3.511E-13	1.137E-12	5.073E-12	8.064E-12	1.295E-11	1.265E-11	
U-234	Pu-238	5.538E-14	0.000E+00	1.557E-19	4.634E-19	1.501E-18	6.696E-18	1.064E-17	1.710E-17	1.670E-17	
U-234	Pu-238	7.972E-16	0.000E+00	2.242E-21	6.670E-21	2.161E-20	9.639E-20	1.532E-19	2.461E-19	2.404E-19	
U-234	Pu-238	2.000E-07	0.000E+00	5.624E-13	1.673E-12	5.421E-12	2.418E-11	3.844E-11	6.175E-11	6.031E-11	
U-234	Pu-238	2.640E-13	0.000E+00	7.423E-19	2.209E-18	7.156E-18	3.192E-17	5.074E-17	8.151E-17	7.961E-17	
U-234	Pu-238	3.800E-15	0.000E+00	1.069E-20	3.179E-20	1.030E-19	4.594E-19	7.303E-19	1.173E-18	1.146E-18	
U-234	ΣS(j):		0.000E+00	2.812E-06	8.367E-06	2.711E-05	1.209E-04	1.922E-04	3.087E-04	3.015E-04	
Th-230	Pu-238	9.996E-01	0.000E+00	1.294E-11	1.158E-10	1.263E-09	3.145E-08	1.003E-07	5.903E-07	2.604E-06	

Summary : RESRAD Default

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Individual Nuclide Soil Concentration
Parent Nuclide and Branch Fraction Indicated

Nuclide (j)	Parent (i)	THF(i)	S(j,t), pCi/g							
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	5.280E+01	1.000E+02	3.000E+02	1.000E+03
Th-230	Pu-238	1.899E-08	0.000E+00	2.459E-19	2.201E-18	2.399E-17	5.976E-16	1.907E-15	1.121E-14	4.948E-14
Th-230	Pu-238	2.100E-04	0.000E+00	2.718E-15	2.433E-14	2.652E-13	6.607E-12	2.108E-11	1.240E-10	5.470E-10
Th-230	Pu-238	2.771E-10	0.000E+00	3.588E-21	3.211E-20	3.501E-19	8.721E-18	2.782E-17	1.637E-16	7.220E-16
Th-230	Pu-238	3.989E-12	0.000E+00	5.164E-23	4.623E-22	5.039E-21	1.255E-19	4.005E-19	2.356E-18	1.039E-17
Th-230	Pu-238	1.998E-04	0.000E+00	2.586E-15	2.315E-14	2.523E-13	6.286E-12	2.005E-11	1.180E-10	5.204E-10
Th-230	Pu-238	2.637E-10	0.000E+00	3.414E-21	3.055E-20	3.331E-19	8.297E-18	2.647E-17	1.557E-16	6.869E-16
Th-230	Pu-238	3.795E-12	0.000E+00	4.913E-23	4.398E-22	4.795E-21	1.194E-19	3.810E-19	2.241E-18	9.887E-18
Th-230	Pu-238	4.196E-08	0.000E+00	5.432E-19	4.862E-18	5.300E-17	1.320E-15	4.212E-15	2.478E-14	1.093E-13
Th-230	Pu-238	5.538E-14	0.000E+00	7.170E-25	6.418E-24	6.997E-23	1.743E-21	5.560E-21	3.270E-20	1.443E-19
Th-230	Pu-238	7.972E-16	0.000E+00	1.032E-26	9.238E-26	1.007E-24	2.509E-23	8.003E-23	4.708E-22	2.077E-21
Th-230	Pu-238	2.000E-07	0.000E+00	2.589E-18	2.318E-17	2.527E-16	6.293E-15	2.008E-14	1.181E-13	5.210E-13
Th-230	Pu-238	2.640E-13	0.000E+00	3.418E-24	3.059E-23	3.335E-22	8.307E-21	2.650E-20	1.559E-19	6.877E-19
Th-230	Pu-238	3.800E-15	0.000E+00	4.919E-26	4.403E-25	4.800E-24	1.196E-22	3.815E-22	2.244E-21	9.899E-21
Th-230	ΣS(j):		0.000E+00	1.295E-11	1.159E-10	1.263E-09	3.147E-08	1.004E-07	5.905E-07	2.605E-06
Ra-226	Pu-238	9.996E-01	0.000E+00	1.870E-15	5.027E-14	1.834E-12	2.468E-10	1.526E-09	2.893E-08	4.545E-07
Ra-226	Pu-238	1.899E-08	0.000E+00	3.552E-23	9.550E-22	3.484E-20	4.689E-18	2.899E-17	5.497E-16	8.636E-15
Ra-226	ΣS(j):		0.000E+00	1.870E-15	5.027E-14	1.834E-12	2.468E-10	1.526E-09	2.893E-08	4.545E-07
Pb-210	Pu-238	9.996E-01	0.000E+00	1.451E-17	1.157E-15	1.352E-13	7.695E-11	7.308E-10	2.227E-08	4.255E-07
Pb-210	Pu-238	1.319E-06	0.000E+00	1.915E-23	1.527E-21	1.785E-19	1.016E-16	9.647E-16	2.940E-14	5.616E-13
Pb-210	Pu-238	2.100E-04	0.000E+00	3.048E-21	2.430E-19	2.840E-17	1.616E-14	1.535E-13	4.678E-12	8.937E-11
Pb-210	Pu-238	1.998E-04	0.000E+00	2.900E-21	2.312E-19	2.702E-17	1.538E-14	1.461E-13	4.451E-12	8.503E-11
Pb-210	Pu-238	4.196E-08	0.000E+00	6.091E-25	4.856E-23	5.675E-21	3.230E-18	3.068E-17	9.349E-16	1.786E-14
Pb-210	Pu-238	2.000E-07	0.000E+00	2.903E-24	2.315E-22	2.705E-20	1.540E-17	1.462E-16	4.456E-15	8.513E-14
Pb-210	ΣS(j):		0.000E+00	1.452E-17	1.157E-15	1.353E-13	7.698E-11	7.311E-10	2.228E-08	4.256E-07
Po-210	Pu-238	9.996E-01	0.000E+00	4.038E-18	6.385E-16	1.104E-13	7.412E-11	7.174E-10	2.216E-08	4.249E-07
Po-210	Pu-238	2.100E-04	0.000E+00	8.481E-22	1.341E-19	2.318E-17	1.557E-14	1.507E-13	4.654E-12	8.926E-11
Po-210	Pu-238	1.998E-04	0.000E+00	8.069E-22	1.276E-19	2.206E-17	1.481E-14	1.434E-13	4.428E-12	8.492E-11
Po-210	Pu-238	4.196E-08	0.000E+00	1.695E-25	2.680E-23	4.633E-21	3.111E-18	3.011E-17	9.301E-16	1.784E-14
Po-210	Pu-238	2.000E-07	0.000E+00	8.079E-25	1.278E-22	2.208E-20	1.483E-17	1.435E-16	4.434E-15	8.502E-14
Po-210	ΣS(j):		0.000E+00	4.039E-18	6.388E-16	1.104E-13	7.415E-11	7.177E-10	2.217E-08	4.251E-07
Pu-238	Pu-238	1.319E-06	1.319E-06	1.309E-06	1.288E-06	1.218E-06	8.636E-07	5.912E-07	1.187E-07	4.301E-10
Pu-238	Pu-238	1.899E-08	1.899E-08	1.884E-08	1.854E-08	1.753E-08	1.243E-08	8.509E-09	1.708E-09	6.191E-12
Pu-238	ΣS(j):		1.338E-06	1.328E-06	1.307E-06	1.235E-06	8.760E-07	5.997E-07	1.204E-07	4.363E-10
U-234	Pu-238	1.319E-06	0.000E+00	3.710E-12	1.104E-11	3.577E-11	1.595E-10	2.536E-10	4.074E-10	3.979E-10
Th-230	Pu-238	1.319E-06	0.000E+00	1.708E-17	1.529E-16	1.667E-15	4.152E-14	1.325E-13	7.791E-13	3.437E-12
Ra-226	Pu-238	1.319E-06	0.000E+00	2.468E-21	6.635E-20	2.421E-18	3.258E-16	2.014E-15	3.819E-14	5.999E-13
Pb-210	Pu-238	1.899E-08	0.000E+00	2.757E-25	2.198E-23	2.569E-21	1.462E-18	1.389E-17	4.232E-16	8.084E-15
Pb-210	Pu-238	3.989E-12	0.000E+00	5.791E-29	4.617E-27	5.396E-25	3.071E-22	2.917E-21	8.889E-20	1.698E-18
Pb-210	Pu-238	3.795E-12	0.000E+00	5.509E-29	4.392E-27	5.134E-25	2.922E-22	2.775E-21	8.457E-20	1.615E-18
Pb-210	Pu-238	7.972E-16	0.000E+00	1.157E-32	9.226E-31	1.078E-28	6.137E-26	5.829E-25	1.776E-23	3.393E-22
Pb-210	Pu-238	3.800E-15	0.000E+00	5.516E-32	4.398E-30	5.140E-28	2.925E-25	2.778E-24	8.467E-23	1.617E-21
Pb-210	ΣS(j):		0.000E+00	2.758E-25	2.199E-23	2.570E-21	1.463E-18	1.389E-17	4.234E-16	8.087E-15

Summary : RESRAD Default

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Individual Nuclide Soil Concentration
Parent Nuclide and Branch Fraction Indicated

Nuclide (j)	Parent (i)	THF(i)	S(j,t), pCi/g							
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	5.280E+01	1.000E+02	3.000E+02	1.000E+03
Pu-238	Pu-238	2.100E-04	2.100E-04	2.083E-04	2.050E-04	1.938E-04	1.374E-04	9.407E-05	1.888E-05	6.844E-08
Pu-238	Pu-238	2.771E-10	2.771E-10	2.749E-10	2.705E-10	2.558E-10	1.814E-10	1.242E-10	2.493E-11	9.034E-14
Pu-238	ΣS(j):		2.100E-04	2.083E-04	2.050E-04	1.938E-04	1.374E-04	9.407E-05	1.888E-05	6.844E-08
Ra-226	Pu-238	2.100E-04	0.000E+00	3.927E-19	1.056E-17	3.852E-16	5.184E-14	3.205E-13	6.077E-12	9.547E-11
Ra-226	Pu-238	2.771E-10	0.000E+00	5.184E-25	1.394E-23	5.085E-22	6.843E-20	4.231E-19	8.022E-18	1.260E-16
Ra-226	Pu-238	3.989E-12	0.000E+00	7.462E-27	2.006E-25	7.319E-24	9.850E-22	6.089E-21	1.155E-19	1.814E-18
Ra-226	ΣS(j):		0.000E+00	3.927E-19	1.056E-17	3.852E-16	5.184E-14	3.205E-13	6.077E-12	9.547E-11
Pb-210	Pu-238	2.771E-10	0.000E+00	4.023E-27	3.207E-25	3.749E-23	2.134E-20	2.026E-19	6.175E-18	1.180E-16
Pb-210	Pu-238	2.637E-10	0.000E+00	3.828E-27	3.052E-25	3.567E-23	2.030E-20	1.928E-19	5.875E-18	1.122E-16
Pb-210	Pu-238	5.538E-14	0.000E+00	8.040E-31	6.410E-29	7.491E-27	4.264E-24	4.049E-23	1.234E-21	2.357E-20
Pb-210	Pu-238	2.640E-13	0.000E+00	3.832E-30	3.055E-28	3.571E-26	2.032E-23	1.930E-22	5.883E-21	1.124E-19
Pb-210	ΣS(j):		0.000E+00	7.855E-27	6.263E-25	7.320E-23	4.166E-20	3.957E-19	1.206E-17	2.303E-16
Pu-238	Pu-238	3.989E-12	3.989E-12	3.957E-12	3.894E-12	3.681E-12	2.611E-12	1.787E-12	3.588E-13	1.300E-15
Pu-238	Pu-238	1.998E-04	1.998E-04	1.982E-04	1.950E-04	1.843E-04	1.307E-04	8.950E-05	1.797E-05	6.511E-08
Pu-238	ΣS(j):		1.998E-04	1.982E-04	1.950E-04	1.843E-04	1.307E-04	8.950E-05	1.797E-05	6.511E-08
Ra-226	Pu-238	1.998E-04	0.000E+00	3.736E-19	1.004E-17	3.665E-16	4.932E-14	3.049E-13	5.782E-12	9.083E-11
Ra-226	Pu-238	3.795E-12	0.000E+00	7.099E-27	1.909E-25	6.963E-24	9.371E-22	5.794E-21	1.099E-19	1.726E-18
Ra-226	ΣS(j):		0.000E+00	3.736E-19	1.004E-17	3.665E-16	4.932E-14	3.049E-13	5.782E-12	9.083E-11
Pu-238	Pu-238	2.637E-10	2.637E-10	2.616E-10	2.574E-10	2.433E-10	1.726E-10	1.181E-10	2.372E-11	8.595E-14
Pu-238	Pu-238	3.795E-12	3.795E-12	3.765E-12	3.705E-12	3.503E-12	2.484E-12	1.700E-12	3.414E-13	1.237E-15
Pu-238	ΣS(j):		2.675E-10	2.653E-10	2.611E-10	2.468E-10	1.751E-10	1.198E-10	2.406E-11	8.719E-14
Ra-226	Pu-238	2.637E-10	0.000E+00	4.932E-25	1.326E-23	4.838E-22	6.510E-20	4.025E-19	7.633E-18	1.199E-16
Pu-238	Pu-238	4.196E-08	4.196E-08	4.162E-08	4.096E-08	3.872E-08	2.746E-08	1.880E-08	3.774E-09	1.368E-11
Pu-238	Pu-238	5.538E-14	5.538E-14	5.494E-14	5.407E-14	5.111E-14	3.625E-14	2.481E-14	4.981E-15	1.805E-17
Pu-238	ΣS(j):		4.196E-08	4.162E-08	4.096E-08	3.872E-08	2.746E-08	1.880E-08	3.774E-09	1.368E-11
Ra-226	Pu-238	4.196E-08	0.000E+00	7.848E-23	2.110E-21	7.698E-20	1.036E-17	6.405E-17	1.215E-15	1.908E-14
Ra-226	Pu-238	5.538E-14	0.000E+00	1.036E-28	2.785E-27	1.016E-25	1.367E-23	8.454E-23	1.603E-21	2.518E-20
Ra-226	Pu-238	7.972E-16	0.000E+00	1.491E-30	4.009E-29	1.463E-27	1.968E-25	1.217E-24	2.308E-23	3.625E-22
Ra-226	ΣS(j):		0.000E+00	7.848E-23	2.110E-21	7.698E-20	1.036E-17	6.405E-17	1.215E-15	1.908E-14
Pu-238	Pu-238	7.972E-16	7.972E-16	7.908E-16	7.782E-16	7.357E-16	5.218E-16	3.572E-16	7.170E-17	2.599E-19
Pu-238	Pu-238	2.000E-07	2.000E-07	1.984E-07	1.952E-07	1.846E-07	1.309E-07	8.961E-08	1.799E-08	6.519E-11
Pu-238	ΣS(j):		2.000E-07	1.984E-07	1.952E-07	1.846E-07	1.309E-07	8.961E-08	1.799E-08	6.519E-11
Ra-226	Pu-238	2.000E-07	0.000E+00	3.741E-22	1.006E-20	3.669E-19	4.938E-17	3.053E-16	5.789E-15	9.094E-14
Ra-226	Pu-238	3.800E-15	0.000E+00	7.108E-30	1.911E-28	6.972E-27	9.382E-25	5.801E-24	1.100E-22	1.728E-21
Ra-226	ΣS(j):		0.000E+00	3.741E-22	1.006E-20	3.669E-19	4.938E-17	3.053E-16	5.789E-15	9.094E-14
Pu-238	Pu-238	2.640E-13	2.640E-13	2.619E-13	2.577E-13	2.436E-13	1.728E-13	1.183E-13	2.374E-14	8.606E-17
Pu-238	Pu-238	3.800E-15	3.800E-15	3.770E-15	3.710E-15	3.507E-15	2.487E-15	1.703E-15	3.418E-16	1.239E-18
Pu-238	ΣS(j):		2.678E-13	2.657E-13	2.614E-13	2.471E-13	1.753E-13	1.200E-13	2.409E-14	8.729E-17

Summary : RESRAD Default

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Individual Nuclide Soil Concentration
Parent Nuclide and Branch Fraction Indicated

Nuclide (j)	Parent (i)	THF(i)	S(j,t), pCi/g							
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	5.280E+01	1.000E+02	3.000E+02	1.000E+03
Ra-226	Pu-238	2.640E-13	0.000E+00	4.938E-28	1.328E-26	4.843E-25	6.518E-23	4.030E-22	7.642E-21	1.200E-19
Pu-239	Pu-239	1.633E-06	1.633E-06	1.633E-06	1.632E-06	1.631E-06	1.620E-06	1.608E-06	1.559E-06	1.400E-06
Pu-239	Pu-239	8.257E-06	8.257E-06	8.255E-06	8.253E-06	8.244E-06	8.190E-06	8.131E-06	7.884E-06	7.079E-06
Pu-239	ΣS(j):		9.890E-06	9.888E-06	9.885E-06	9.875E-06	9.810E-06	9.739E-06	9.444E-06	8.480E-06
Pu-239	Pu-239	2.285E-08	2.285E-08	2.285E-08	2.284E-08	2.282E-08	2.267E-08	2.250E-08	2.182E-08	1.959E-08
Pu-239	Pu-239	4.954E-10	4.954E-10	4.954E-10	4.952E-10	4.947E-10	4.914E-10	4.879E-10	4.731E-10	4.248E-10
Pu-239	ΣS(j):		2.335E-08	2.334E-08	2.334E-08	2.331E-08	2.316E-08	2.299E-08	2.229E-08	2.002E-08
Pu-239	Pu-239	1.371E-12	1.371E-12	1.371E-12	1.371E-12	1.369E-12	1.360E-12	1.350E-12	1.309E-12	1.176E-12
Pu-239	Pu-239	2.720E-03	2.720E-03	2.720E-03	2.719E-03	2.716E-03	2.698E-03	2.679E-03	2.598E-03	2.332E-03
Pu-239	Pu-239	1.375E-02	1.375E-02	1.375E-02	1.375E-02	1.373E-02	1.364E-02	1.354E-02	1.313E-02	1.179E-02
Pu-239	ΣS(j):		1.647E-02	1.647E-02	1.647E-02	1.645E-02	1.634E-02	1.622E-02	1.573E-02	1.412E-02
Pu-239	Pu-239	3.806E-05	3.806E-05	3.806E-05	3.805E-05	3.800E-05	3.775E-05	3.748E-05	3.635E-05	3.264E-05
Pu-239	Pu-239	8.252E-07	8.252E-07	8.251E-07	8.248E-07	8.240E-07	8.185E-07	8.126E-07	7.880E-07	7.076E-07
Pu-239	ΣS(j):		3.889E-05	3.888E-05	3.887E-05	3.883E-05	3.857E-05	3.829E-05	3.713E-05	3.334E-05
Pu-239	Pu-239	2.284E-09	2.284E-09	2.284E-09	2.283E-09	2.280E-09	2.265E-09	2.249E-09	2.181E-09	1.958E-09
Pu-240	Pu-240	1.000E+00	1.000E+00	9.998E-01	9.993E-01	9.977E-01	9.879E-01	9.772E-01	9.331E-01	7.940E-01
Pu-241	Pu-241	1.000E+00	1.000E+00	9.527E-01	8.648E-01	6.161E-01	7.754E-02	7.885E-03	4.902E-07	9.289E-22
Pu-241	Pu-241	2.450E-05	2.450E-05	2.334E-05	2.119E-05	1.510E-05	1.900E-06	1.932E-07	1.201E-11	2.276E-26
Pu-241	ΣS(j):		1.000E+00	9.527E-01	8.648E-01	6.161E-01	7.754E-02	7.885E-03	4.902E-07	9.289E-22
Sb-125	Sb-125	7.686E-01	7.686E-01	5.971E-01	3.603E-01	6.151E-02	1.244E-06	8.282E-12	9.616E-34	0.000E+00
Sb-125	Sb-125	2.314E-01	2.314E-01	1.797E-01	1.085E-01	1.852E-02	3.745E-07	2.493E-12	2.894E-34	0.000E+00
Sb-125	ΣS(j):		1.000E+00	7.768E-01	4.688E-01	8.003E-02	1.619E-06	1.077E-11	1.251E-33	0.000E+00
Te-125m	Sb-125	2.314E-01	0.000E+00	1.833E-01	1.122E-01	1.915E-02	3.873E-07	2.579E-12	2.994E-34	0.000E+00
Sr-90	Sr-90	1.000E+00	1.000E+00	9.678E-01	9.064E-01	7.206E-01	1.772E-01	3.773E-02	5.371E-05	5.845E-15
Tc-99	Tc-99	1.000E+00	1.000E+00	8.994E-01	7.276E-01	3.464E-01	3.707E-03	2.488E-05	1.540E-14	0.000E+00

THF(i) is the thread fraction of the parent nuclide.

RESMASCALC.EXE execution time = 272.14 seconds

Total water/soil iteration failures = 1.500E+01.