

Table of Contents

Part I: Mixture Sums and Single Radionuclide Guidelines

Dose Conversion Factor (and Related) Parameter Summary ...	2
Site-Specific Parameter Summary	14
Summary of Pathway Selections	38
Contaminated Zone and Total Dose Summary	39
Total Dose Components	
Time = 0.000E+00	45
Time = 1.000E+00	49
Time = 3.000E+00	53
Time = 1.000E+01	57
Time = 3.000E+01	61
Time = 1.000E+02	65
Time = 3.000E+02	69
Time = 1.000E+03	73
Time = 5.000E+03	77
Dose/Source Ratios Summed Over All Pathways	81
Single Radionuclide Soil Guidelines	87
Dose Per Nuclide Summed Over All Pathways	91
Soil Concentration Per Nuclide	97

Dose Conversion Factor (and Related) Parameter Summary
 File: HEAST 1995 Morbidity

Menu	Parameter	Current Value	Default	Parameter Name
B-1	Dose conversion factors for inhalation, mrem/pCi:			
B-1	Ac-227+D	6.720E+00	6.720E+00	DCF2 (1)
B-1	Ag-108m+D	2.830E-04	2.830E-04	DCF2 (2)
B-1	Ag-110m+D	8.030E-05	8.030E-05	DCF2 (3)
B-1	Am-241	4.440E-01	4.440E-01	DCF2 (4)
B-1	Am-243+D	4.400E-01	4.400E-01	DCF2 (5)
B-1	Au-195	1.300E-05	1.300E-05	DCF2 (6)
B-1	Ba-133	7.860E-06	7.860E-06	DCF2 (7)
B-1	C-14	2.090E-06	2.090E-06	DCF2 (8)
B-1	Ca-41	1.350E-06	1.350E-06	DCF2 (9)
B-1	Cd-109	1.140E-04	1.140E-04	DCF2 (10)
B-1	Ce-144+D	3.740E-04	3.740E-04	DCF2 (11)
B-1	Cf-252	1.570E-01	1.570E-01	DCF2 (12)
B-1	Cm-243	3.070E-01	3.070E-01	DCF2 (13)
B-1	Cm-244	2.480E-01	2.480E-01	DCF2 (15)
B-1	Cm-245	4.550E-01	4.550E-01	DCF2 (16)
B-1	Cm-246	4.510E-01	4.510E-01	DCF2 (18)
B-1	Cm-247+D	4.140E-01	4.140E-01	DCF2 (19)
B-1	Cm-248	1.650E+00	1.650E+00	DCF2 (20)
B-1	Co-57	9.070E-06	9.070E-06	DCF2 (21)
B-1	Co-60	2.190E-04	2.190E-04	DCF2 (22)
B-1	Cs-134	4.630E-05	4.630E-05	DCF2 (23)
B-1	Cs-135	4.550E-06	4.550E-06	DCF2 (24)
B-1	Cs-137+D	3.190E-05	3.190E-05	DCF2 (25)
B-1	Eu-152	2.210E-04	2.210E-04	DCF2 (26)
B-1	Eu-154	2.860E-04	2.860E-04	DCF2 (28)
B-1	Eu-155	4.140E-05	4.140E-05	DCF2 (29)
B-1	Fe-55	2.690E-06	2.690E-06	DCF2 (30)
B-1	Gd-152	2.430E-01	2.430E-01	DCF2 (31)
B-1	Gd-153	2.380E-05	2.380E-05	DCF2 (32)
B-1	Ge-68+D	5.190E-05	5.190E-05	DCF2 (33)
B-1	H-3	6.400E-08	6.400E-08	DCF2 (34)
B-1	I-129	1.740E-04	1.740E-04	DCF2 (35)
B-1	K-40	1.240E-05	1.240E-05	DCF2 (36)
B-1	Mn-54	6.700E-06	6.700E-06	DCF2 (37)
B-1	Na-22	7.660E-06	7.660E-06	DCF2 (38)
B-1	Nb-93m	2.920E-05	2.920E-05	DCF2 (39)
B-1	Nb-94	4.140E-04	4.140E-04	DCF2 (40)
B-1	Ni-59	2.700E-06	2.700E-06	DCF2 (41)
B-1	Ni-63	6.290E-06	6.290E-06	DCF2 (42)
B-1	Np-237+D	5.400E-01	5.400E-01	DCF2 (43)
B-1	Pa-231	1.280E+00	1.280E+00	DCF2 (44)
B-1	Pb-210+D	2.320E-02	2.320E-02	DCF2 (45)
B-1	Pm-147	3.920E-05	3.920E-05	DCF2 (46)
B-1	Pu-238	3.920E-01	3.920E-01	DCF2 (47)
B-1	Pu-239	4.290E-01	4.290E-01	DCF2 (48)
B-1	Pu-240	4.290E-01	4.290E-01	DCF2 (49)
B-1	Pu-241+D	8.250E-03	8.250E-03	DCF2 (50)
B-1	Pu-242	4.110E-01	4.110E-01	DCF2 (52)
B-1	Pu-244+D	4.030E-01	4.030E-01	DCF2 (53)
B-1	Ra-226+D	8.600E-03	8.600E-03	DCF2 (54)

Dose Conversion Factor (and Related) Parameter Summary (continued)
 File: HEAST 1995 Morbidity

Menu	Parameter	Current Value	Default	Parameter Name
B-1	Ra-228+D	5.080E-03	5.080E-03	DCF2 (55)
B-1	Ru-106+D	4.770E-04	4.770E-04	DCF2 (56)
B-1	Sb-125+D	1.386E-05	1.386E-05	DCF2 (57)
B-1	Sm-147	7.470E-02	7.470E-02	DCF2 (58)
B-1	Sm-151	3.000E-05	3.000E-05	DCF2 (59)
B-1	Sr-90+D	1.310E-03	1.310E-03	DCF2 (60)
B-1	Tc-99	8.330E-06	8.330E-06	DCF2 (61)
B-1	Th-228+D	3.450E-01	3.450E-01	DCF2 (62)
B-1	Th-229+D	2.160E+00	2.160E+00	DCF2 (63)
B-1	Th-230	3.260E-01	3.260E-01	DCF2 (64)
B-1	Th-232	1.640E+00	1.640E+00	DCF2 (65)
B-1	Tl-204	2.410E-06	2.410E-06	DCF2 (66)
B-1	U-233	1.350E-01	1.350E-01	DCF2 (67)
B-1	U-234	1.320E-01	1.320E-01	DCF2 (68)
B-1	U-235+D	1.230E-01	1.230E-01	DCF2 (69)
B-1	U-236	1.250E-01	1.250E-01	DCF2 (70)
B-1	U-238+D	1.180E-01	1.180E-01	DCF2 (71)
B-1	Zn-65	2.040E-05	2.040E-05	DCF2 (72)
D-1	Dose conversion factors for ingestion, mrem/pCi:			
D-1	Ac-227+D	1.480E-02	1.480E-02	DCF3 (1)
D-1	Ag-108m+D	7.620E-06	7.620E-06	DCF3 (2)
D-1	Ag-110m+D	1.080E-05	1.080E-05	DCF3 (3)
D-1	Am-241	3.640E-03	3.640E-03	DCF3 (4)
D-1	Am-243+D	3.630E-03	3.630E-03	DCF3 (5)
D-1	Au-195	1.060E-06	1.060E-06	DCF3 (6)
D-1	Ba-133	3.400E-06	3.400E-06	DCF3 (7)
D-1	C-14	2.090E-06	2.090E-06	DCF3 (8)
D-1	Ca-41	1.270E-06	1.270E-06	DCF3 (9)
D-1	Cd-109	1.310E-05	1.310E-05	DCF3 (10)
D-1	Ce-144+D	2.110E-05	2.110E-05	DCF3 (11)
D-1	Cf-252	1.080E-03	1.080E-03	DCF3 (12)
D-1	Cm-243	2.510E-03	2.510E-03	DCF3 (13)
D-1	Cm-244	2.020E-03	2.020E-03	DCF3 (15)
D-1	Cm-245	3.740E-03	3.740E-03	DCF3 (16)
D-1	Cm-246	3.700E-03	3.700E-03	DCF3 (18)
D-1	Cm-247+D	3.420E-03	3.420E-03	DCF3 (19)
D-1	Cm-248	1.360E-02	1.360E-02	DCF3 (20)
D-1	Co-57	1.180E-06	1.180E-06	DCF3 (21)
D-1	Co-60	2.690E-05	2.690E-05	DCF3 (22)
D-1	Cs-134	7.330E-05	7.330E-05	DCF3 (23)
D-1	Cs-135	7.070E-06	7.070E-06	DCF3 (24)
D-1	Cs-137+D	5.000E-05	5.000E-05	DCF3 (25)
D-1	Eu-152	6.480E-06	6.480E-06	DCF3 (26)
D-1	Eu-154	9.550E-06	9.550E-06	DCF3 (28)
D-1	Eu-155	1.530E-06	1.530E-06	DCF3 (29)
D-1	Fe-55	6.070E-07	6.070E-07	DCF3 (30)
D-1	Gd-152	1.610E-04	1.610E-04	DCF3 (31)
D-1	Gd-153	1.170E-06	1.170E-06	DCF3 (32)
D-1	Ge-68+D	1.410E-06	1.410E-06	DCF3 (33)
D-1	H-3	6.400E-08	6.400E-08	DCF3 (34)

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

File: HEAST 1995 Morbidity

Menu	Parameter	Current Value	Default	Parameter Name
D-1	I-129	2.760E-04	2.760E-04	DCF3(35)
D-1	K-40	1.860E-05	1.860E-05	DCF3(36)
D-1	Mn-54	2.770E-06	2.770E-06	DCF3(37)
D-1	Na-22	1.150E-05	1.150E-05	DCF3(38)
D-1	Nb-93m	5.210E-07	5.210E-07	DCF3(39)
D-1	Nb-94	7.140E-06	7.140E-06	DCF3(40)
D-1	Ni-59	2.100E-07	2.100E-07	DCF3(41)
D-1	Ni-63	5.770E-07	5.770E-07	DCF3(42)
D-1	Np-237+D	4.440E-03	4.440E-03	DCF3(43)
D-1	Pa-231	1.060E-02	1.060E-02	DCF3(44)
D-1	Pb-210+D	7.270E-03	7.270E-03	DCF3(45)
D-1	Pm-147	1.050E-06	1.050E-06	DCF3(46)
D-1	Pu-238	3.200E-03	3.200E-03	DCF3(47)
D-1	Pu-239	3.540E-03	3.540E-03	DCF3(48)
D-1	Pu-240	3.540E-03	3.540E-03	DCF3(49)
D-1	Pu-241+D	6.850E-05	6.850E-05	DCF3(50)
D-1	Pu-242	3.360E-03	3.360E-03	DCF3(52)
D-1	Pu-244+D	3.320E-03	3.320E-03	DCF3(53)
D-1	Ra-226+D	1.330E-03	1.330E-03	DCF3(54)
D-1	Ra-228+D	1.440E-03	1.440E-03	DCF3(55)
D-1	Ru-106+D	2.740E-05	2.740E-05	DCF3(56)
D-1	Sb-125+D	3.647E-06	3.647E-06	DCF3(57)
D-1	Sm-147	1.850E-04	1.850E-04	DCF3(58)
D-1	Sm-151	3.890E-07	3.890E-07	DCF3(59)
D-1	Sr-90+D	1.530E-04	1.530E-04	DCF3(60)
D-1	Tc-99	1.460E-06	1.460E-06	DCF3(61)
D-1	Th-228+D	8.080E-04	8.080E-04	DCF3(62)
D-1	Th-229+D	4.030E-03	4.030E-03	DCF3(63)
D-1	Th-230	5.480E-04	5.480E-04	DCF3(64)
D-1	Th-232	2.730E-03	2.730E-03	DCF3(65)
D-1	Tl-204	3.360E-06	3.360E-06	DCF3(66)
D-1	U-233	2.890E-04	2.890E-04	DCF3(67)
D-1	U-234	2.830E-04	2.830E-04	DCF3(68)
D-1	U-235+D	2.670E-04	2.670E-04	DCF3(69)
D-1	U-236	2.690E-04	2.690E-04	DCF3(70)
D-1	U-238+D	2.690E-04	2.690E-04	DCF3(71)
D-1	Zn-65	1.440E-05	1.440E-05	DCF3(72)
D-34	Food transfer factors:			
D-34	Ac-227+D , plant/soil concentration ratio, dimensionless	2.500E-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-05	2.000E-05	RTF(1,3)
D-34				
D-34	Ag-108m+D, plant/soil concentration ratio, dimensionless	1.500E-01	1.500E-01	RTF(2,1)
D-34	Ag-108m+D, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.000E-03	3.000E-03	RTF(2,2)
D-34	Ag-108m+D, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.500E-02	2.500E-02	RTF(2,3)
D-34				
D-34	Ag-110m+D, plant/soil concentration ratio, dimensionless	1.500E-01	1.500E-01	RTF(3,1)
D-34	Ag-110m+D, beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.000E-03	3.000E-03	RTF(3,2)
D-34	Ag-110m+D, milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.500E-02	2.500E-02	RTF(3,3)
D-34				

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

File: HEAST 1995 Morbidity

Menu	Parameter	Current Value	Default	Parameter Name
D-34	Am-241 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(4,1)
D-34	Am-241 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	5.000E-05	5.000E-05	RTF(4,2)
D-34	Am-241 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-06	2.000E-06	RTF(4,3)
D-34				
D-34	Am-243+D , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(5,1)
D-34	Am-243+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	5.000E-05	5.000E-05	RTF(5,2)
D-34	Am-243+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-06	2.000E-06	RTF(5,3)
D-34				
D-34	Au-195 , plant/soil concentration ratio, dimensionless	1.000E-01	1.000E-01	RTF(6,1)
D-34	Au-195 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	5.000E-03	5.000E-03	RTF(6,2)
D-34	Au-195 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-05	1.000E-05	RTF(6,3)
D-34				
D-34	Ba-133 , plant/soil concentration ratio, dimensionless	5.000E-03	5.000E-03	RTF(7,1)
D-34	Ba-133 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-04	2.000E-04	RTF(7,2)
D-34	Ba-133 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-04	5.000E-04	RTF(7,3)
D-34				
D-34	C-14 , plant/soil concentration ratio, dimensionless	5.500E+00	5.500E+00	RTF(8,1)
D-34	C-14 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.100E-02	3.100E-02	RTF(8,2)
D-34	C-14 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.200E-02	1.200E-02	RTF(8,3)
D-34				
D-34	Ca-41 , plant/soil concentration ratio, dimensionless	5.000E-01	5.000E-01	RTF(9,1)
D-34	Ca-41 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.600E-03	1.600E-03	RTF(9,2)
D-34	Ca-41 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	3.000E-03	3.000E-03	RTF(9,3)
D-34				
D-34	Cd-109 , plant/soil concentration ratio, dimensionless	3.000E-01	3.000E-01	RTF(10,1)
D-34	Cd-109 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	4.000E-04	4.000E-04	RTF(10,2)
D-34	Cd-109 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-03	1.000E-03	RTF(10,3)
D-34				
D-34	Ce-144+D , plant/soil concentration ratio, dimensionless	2.000E-03	2.000E-03	RTF(11,1)
D-34	Ce-144+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-05	2.000E-05	RTF(11,2)
D-34	Ce-144+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	3.000E-05	3.000E-05	RTF(11,3)
D-34				
D-34	Cf-252 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(12,1)
D-34	Cf-252 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	6.000E-05	6.000E-05	RTF(12,2)
D-34	Cf-252 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	7.500E-07	7.500E-07	RTF(12,3)
D-34				
D-34	Cm-243 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(13,1)
D-34	Cm-243 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-05	2.000E-05	RTF(13,2)
D-34	Cm-243 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-06	2.000E-06	RTF(13,3)
D-34				
D-34	Cm-244 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(15,1)
D-34	Cm-244 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-05	2.000E-05	RTF(15,2)
D-34	Cm-244 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-06	2.000E-06	RTF(15,3)
D-34				
D-34	Cm-245 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(16,1)
D-34	Cm-245 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-05	2.000E-05	RTF(16,2)
D-34	Cm-245 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-06	2.000E-06	RTF(16,3)
D-34				
D-34	Cm-246 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(18,1)
D-34	Cm-246 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-05	2.000E-05	RTF(18,2)
D-34	Cm-246 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-06	2.000E-06	RTF(18,3)

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

File: HEAST 1995 Morbidity

Menu	Parameter	Current Value	Default	Parameter Name
D-34	Cm-247+D , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(19,1)
D-34	Cm-247+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-05	2.000E-05	RTF(19,2)
D-34	Cm-247+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-06	2.000E-06	RTF(19,3)
D-34				
D-34	Cm-248 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(20,1)
D-34	Cm-248 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-05	2.000E-05	RTF(20,2)
D-34	Cm-248 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-06	2.000E-06	RTF(20,3)
D-34				
D-34	Co-57 , plant/soil concentration ratio, dimensionless	8.000E-02	8.000E-02	RTF(21,1)
D-34	Co-57 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-02	2.000E-02	RTF(21,2)
D-34	Co-57 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-03	2.000E-03	RTF(21,3)
D-34				
D-34	Co-60 , plant/soil concentration ratio, dimensionless	8.000E-02	8.000E-02	RTF(22,1)
D-34	Co-60 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-02	2.000E-02	RTF(22,2)
D-34	Co-60 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-03	2.000E-03	RTF(22,3)
D-34				
D-34	Cs-134 , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(23,1)
D-34	Cs-134 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.000E-02	3.000E-02	RTF(23,2)
D-34	Cs-134 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	8.000E-03	8.000E-03	RTF(23,3)
D-34				
D-34	Cs-135 , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(24,1)
D-34	Cs-135 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.000E-02	3.000E-02	RTF(24,2)
D-34	Cs-135 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	8.000E-03	8.000E-03	RTF(24,3)
D-34				
D-34	Cs-137+D , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(25,1)
D-34	Cs-137+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.000E-02	3.000E-02	RTF(25,2)
D-34	Cs-137+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	8.000E-03	8.000E-03	RTF(25,3)
D-34				
D-34	Eu-152 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(26,1)
D-34	Eu-152 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-03	2.000E-03	RTF(26,2)
D-34	Eu-152 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-05	2.000E-05	RTF(26,3)
D-34				
D-34	Eu-154 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(28,1)
D-34	Eu-154 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-03	2.000E-03	RTF(28,2)
D-34	Eu-154 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-05	2.000E-05	RTF(28,3)
D-34				
D-34	Eu-155 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(29,1)
D-34	Eu-155 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-03	2.000E-03	RTF(29,2)
D-34	Eu-155 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-05	2.000E-05	RTF(29,3)
D-34				
D-34	Fe-55 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(30,1)
D-34	Fe-55 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-02	2.000E-02	RTF(30,2)
D-34	Fe-55 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	3.000E-04	3.000E-04	RTF(30,3)
D-34				
D-34	Gd-152 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(31,1)
D-34	Gd-152 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-03	2.000E-03	RTF(31,2)
D-34	Gd-152 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-05	2.000E-05	RTF(31,3)
D-34				
D-34	Gd-153 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(32,1)
D-34	Gd-153 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-03	2.000E-03	RTF(32,2)
D-34	Gd-153 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-05	2.000E-05	RTF(32,3)

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

File: HEAST 1995 Morbidity

Menu	Parameter	Current Value	Default	Parameter Name
D-34	Ge-68+D , plant/soil concentration ratio, dimensionless	4.000E-01	4.000E-01	RTF(33,1)
D-34	Ge-68+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-01	2.000E-01	RTF(33,2)
D-34	Ge-68+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-02	1.000E-02	RTF(33,3)
D-34				
D-34	H-3 , plant/soil concentration ratio, dimensionless	4.800E+00	4.800E+00	RTF(34,1)
D-34	H-3 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.200E-02	1.200E-02	RTF(34,2)
D-34	H-3 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-02	1.000E-02	RTF(34,3)
D-34				
D-34	I-129 , plant/soil concentration ratio, dimensionless	2.000E-02	2.000E-02	RTF(35,1)
D-34	I-129 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	7.000E-03	7.000E-03	RTF(35,2)
D-34	I-129 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-02	1.000E-02	RTF(35,3)
D-34				
D-34	K-40 , plant/soil concentration ratio, dimensionless	3.000E-01	3.000E-01	RTF(36,1)
D-34	K-40 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-02	2.000E-02	RTF(36,2)
D-34	K-40 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	7.000E-03	7.000E-03	RTF(36,3)
D-34				
D-34	Mn-54 , plant/soil concentration ratio, dimensionless	3.000E-01	3.000E-01	RTF(37,1)
D-34	Mn-54 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	5.000E-04	5.000E-04	RTF(37,2)
D-34	Mn-54 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	3.000E-04	3.000E-04	RTF(37,3)
D-34				
D-34	Na-22 , plant/soil concentration ratio, dimensionless	5.000E-02	5.000E-02	RTF(38,1)
D-34	Na-22 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	8.000E-02	8.000E-02	RTF(38,2)
D-34	Na-22 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	4.000E-02	4.000E-02	RTF(38,3)
D-34				
D-34	Nb-93m , plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF(39,1)
D-34	Nb-93m , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.000E-07	3.000E-07	RTF(39,2)
D-34	Nb-93m , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-06	2.000E-06	RTF(39,3)
D-34				
D-34	Nb-94 , plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF(40,1)
D-34	Nb-94 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.000E-07	3.000E-07	RTF(40,2)
D-34	Nb-94 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-06	2.000E-06	RTF(40,3)
D-34				
D-34	Ni-59 , plant/soil concentration ratio, dimensionless	5.000E-02	5.000E-02	RTF(41,1)
D-34	Ni-59 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	5.000E-03	5.000E-03	RTF(41,2)
D-34	Ni-59 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-02	2.000E-02	RTF(41,3)
D-34				
D-34	Ni-63 , plant/soil concentration ratio, dimensionless	5.000E-02	5.000E-02	RTF(42,1)
D-34	Ni-63 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	5.000E-03	5.000E-03	RTF(42,2)
D-34	Ni-63 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-02	2.000E-02	RTF(42,3)
D-34				
D-34	Np-237+D , plant/soil concentration ratio, dimensionless	2.000E-02	2.000E-02	RTF(43,1)
D-34	Np-237+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-03	1.000E-03	RTF(43,2)
D-34	Np-237+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-06	5.000E-06	RTF(43,3)
D-34				
D-34	Pa-231 , plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF(44,1)
D-34	Pa-231 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	5.000E-03	5.000E-03	RTF(44,2)
D-34	Pa-231 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-06	5.000E-06	RTF(44,3)
D-34				
D-34	Pb-210+D , plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF(45,1)
D-34	Pb-210+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	8.000E-04	8.000E-04	RTF(45,2)
D-34	Pb-210+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	3.000E-04	3.000E-04	RTF(45,3)

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

File: HEAST 1995 Morbidity

Menu	Parameter	Current Value	Default	Parameter Name
D-34	Pm-147 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(46,1)
D-34	Pm-147 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-03	2.000E-03	RTF(46,2)
D-34	Pm-147 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-05	2.000E-05	RTF(46,3)
D-34				
D-34	Pu-238 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(47,1)
D-34	Pu-238 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF(47,2)
D-34	Pu-238 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-06	1.000E-06	RTF(47,3)
D-34				
D-34	Pu-239 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(48,1)
D-34	Pu-239 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF(48,2)
D-34	Pu-239 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-06	1.000E-06	RTF(48,3)
D-34				
D-34	Pu-240 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(49,1)
D-34	Pu-240 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF(49,2)
D-34	Pu-240 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-06	1.000E-06	RTF(49,3)
D-34				
D-34	Pu-241+D , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(50,1)
D-34	Pu-241+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF(50,2)
D-34	Pu-241+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-06	1.000E-06	RTF(50,3)
D-34				
D-34	Pu-242 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(52,1)
D-34	Pu-242 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF(52,2)
D-34	Pu-242 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-06	1.000E-06	RTF(52,3)
D-34				
D-34	Pu-244+D , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(53,1)
D-34	Pu-244+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF(53,2)
D-34	Pu-244+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-06	1.000E-06	RTF(53,3)
D-34				
D-34	Ra-226+D , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(54,1)
D-34	Ra-226+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-03	1.000E-03	RTF(54,2)
D-34	Ra-226+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-03	1.000E-03	RTF(54,3)
D-34				
D-34	Ra-228+D , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(55,1)
D-34	Ra-228+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-03	1.000E-03	RTF(55,2)
D-34	Ra-228+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-03	1.000E-03	RTF(55,3)
D-34				
D-34	Ru-106+D , plant/soil concentration ratio, dimensionless	3.000E-02	3.000E-02	RTF(56,1)
D-34	Ru-106+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-03	2.000E-03	RTF(56,2)
D-34	Ru-106+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	3.300E-06	3.300E-06	RTF(56,3)
D-34				
D-34	Sb-125+D , plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF(57,1)
D-34	Sb-125+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-03	1.000E-03	RTF(57,2)
D-34	Sb-125+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-04	1.000E-04	RTF(57,3)
D-34				
D-34	Sm-147 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(58,1)
D-34	Sm-147 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-03	2.000E-03	RTF(58,2)
D-34	Sm-147 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-05	2.000E-05	RTF(58,3)
D-34				
D-34	Sm-151 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(59,1)
D-34	Sm-151 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-03	2.000E-03	RTF(59,2)
D-34	Sm-151 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-05	2.000E-05	RTF(59,3)

Dose Conversion Factor (and Related) Parameter Summary (continued)
 File: HEAST 1995 Morbidity

Menu	Parameter	Current Value	Default	Parameter Name
D-34	Sr-90+D , plant/soil concentration ratio, dimensionless	3.000E-01	3.000E-01	RTF(60,1)
D-34	Sr-90+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	8.000E-03	8.000E-03	RTF(60,2)
D-34	Sr-90+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	2.000E-03	2.000E-03	RTF(60,3)
D-34				
D-34	Tc-99 , plant/soil concentration ratio, dimensionless	5.000E+00	5.000E+00	RTF(61,1)
D-34	Tc-99 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF(61,2)
D-34	Tc-99 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-03	1.000E-03	RTF(61,3)
D-34				
D-34	Th-228+D , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(62,1)
D-34	Th-228+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF(62,2)
D-34	Th-228+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-06	5.000E-06	RTF(62,3)
D-34				
D-34	Th-229+D , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(63,1)
D-34	Th-229+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF(63,2)
D-34	Th-229+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-06	5.000E-06	RTF(63,3)
D-34				
D-34	Th-230 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(64,1)
D-34	Th-230 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF(64,2)
D-34	Th-230 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-06	5.000E-06	RTF(64,3)
D-34				
D-34	Th-232 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(65,1)
D-34	Th-232 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF(65,2)
D-34	Th-232 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-06	5.000E-06	RTF(65,3)
D-34				
D-34	Tl-204 , plant/soil concentration ratio, dimensionless	2.000E-01	2.000E-01	RTF(66,1)
D-34	Tl-204 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	2.000E-02	2.000E-02	RTF(66,2)
D-34	Tl-204 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	3.000E-03	3.000E-03	RTF(66,3)
D-34				
D-34	U-233 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(67,1)
D-34	U-233 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.400E-04	3.400E-04	RTF(67,2)
D-34	U-233 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	6.000E-04	6.000E-04	RTF(67,3)
D-34				
D-34	U-234 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(68,1)
D-34	U-234 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.400E-04	3.400E-04	RTF(68,2)
D-34	U-234 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	6.000E-04	6.000E-04	RTF(68,3)
D-34				
D-34	U-235+D , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(69,1)
D-34	U-235+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.400E-04	3.400E-04	RTF(69,2)
D-34	U-235+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	6.000E-04	6.000E-04	RTF(69,3)
D-34				
D-34	U-236 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(70,1)
D-34	U-236 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.400E-04	3.400E-04	RTF(70,2)
D-34	U-236 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	6.000E-04	6.000E-04	RTF(70,3)
D-34				
D-34	U-238+D , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(71,1)
D-34	U-238+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.400E-04	3.400E-04	RTF(71,2)
D-34	U-238+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	6.000E-04	6.000E-04	RTF(71,3)
D-34				
D-34	Zn-65 , plant/soil concentration ratio, dimensionless	4.000E-01	4.000E-01	RTF(72,1)
D-34	Zn-65 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-01	1.000E-01	RTF(72,2)
D-34	Zn-65 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-02	1.000E-02	RTF(72,3)

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

File: HEAST 1995 Morbidity

Menu	Parameter	Current Value	Default	Parameter Name
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				
D-5	Ag-108m+D, fish	5.000E+00	5.000E+00	BIOFAC(2,1)
D-5	Ag-108m+D, crustacea and mollusks	7.700E+02	7.700E+02	BIOFAC(2,2)
D-5				
D-5	Ag-110m+D, fish	5.000E+00	5.000E+00	BIOFAC(3,1)
D-5	Ag-110m+D, crustacea and mollusks	7.700E+02	7.700E+02	BIOFAC(3,2)
D-5				
D-5	Am-241 , fish	3.000E+01	3.000E+01	BIOFAC(4,1)
D-5	Am-241 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC(4,2)
D-5				
D-5	Am-243+D , fish	3.000E+01	3.000E+01	BIOFAC(5,1)
D-5	Am-243+D , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC(5,2)
D-5				
D-5	Au-195 , fish	3.500E+01	3.500E+01	BIOFAC(6,1)
D-5	Au-195 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC(6,2)
D-5				
D-5	Ba-133 , fish	4.000E+00	4.000E+00	BIOFAC(7,1)
D-5	Ba-133 , crustacea and mollusks	2.000E+02	2.000E+02	BIOFAC(7,2)
D-5				
D-5	C-14 , fish	5.000E+04	5.000E+04	BIOFAC(8,1)
D-5	C-14 , crustacea and mollusks	9.100E+03	9.100E+03	BIOFAC(8,2)
D-5				
D-5	Ca-41 , fish	1.000E+03	1.000E+03	BIOFAC(9,1)
D-5	Ca-41 , crustacea and mollusks	3.300E+02	3.300E+02	BIOFAC(9,2)
D-5				
D-5	Cd-109 , fish	2.000E+02	2.000E+02	BIOFAC(10,1)
D-5	Cd-109 , crustacea and mollusks	2.000E+03	2.000E+03	BIOFAC(10,2)
D-5				
D-5	Ce-144+D , fish	3.000E+01	3.000E+01	BIOFAC(11,1)
D-5	Ce-144+D , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC(11,2)
D-5				
D-5	Cf-252 , fish	2.500E+01	2.500E+01	BIOFAC(12,1)
D-5	Cf-252 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC(12,2)
D-5				
D-5	Cm-243 , fish	3.000E+01	3.000E+01	BIOFAC(13,1)
D-5	Cm-243 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC(13,2)
D-5				
D-5	Cm-244 , fish	3.000E+01	3.000E+01	BIOFAC(15,1)
D-5	Cm-244 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC(15,2)
D-5				
D-5	Cm-245 , fish	3.000E+01	3.000E+01	BIOFAC(16,1)
D-5	Cm-245 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC(16,2)
D-5				
D-5	Cm-246 , fish	3.000E+01	3.000E+01	BIOFAC(18,1)
D-5	Cm-246 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC(18,2)
D-5				
D-5	Cm-247+D , fish	3.000E+01	3.000E+01	BIOFAC(19,1)
D-5	Cm-247+D , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC(19,2)

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

File: HEAST 1995 Morbidity

Menu	Parameter	Current Value	Default	Parameter Name
D-5	Cm-248 , fish	3.000E+01	3.000E+01	BIOFAC (20,1)
D-5	Cm-248 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC (20,2)
D-5				
D-5	Co-57 , fish	3.000E+02	3.000E+02	BIOFAC (21,1)
D-5	Co-57 , crustacea and mollusks	2.000E+02	2.000E+02	BIOFAC (21,2)
D-5				
D-5	Co-60 , fish	3.000E+02	3.000E+02	BIOFAC (22,1)
D-5	Co-60 , crustacea and mollusks	2.000E+02	2.000E+02	BIOFAC (22,2)
D-5				
D-5	Cs-134 , fish	2.000E+03	2.000E+03	BIOFAC (23,1)
D-5	Cs-134 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC (23,2)
D-5				
D-5	Cs-135 , fish	2.000E+03	2.000E+03	BIOFAC (24,1)
D-5	Cs-135 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC (24,2)
D-5				
D-5	Cs-137+D , fish	2.000E+03	2.000E+03	BIOFAC (25,1)
D-5	Cs-137+D , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC (25,2)
D-5				
D-5	Eu-152 , fish	5.000E+01	5.000E+01	BIOFAC (26,1)
D-5	Eu-152 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC (26,2)
D-5				
D-5	Eu-154 , fish	5.000E+01	5.000E+01	BIOFAC (28,1)
D-5	Eu-154 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC (28,2)
D-5				
D-5	Eu-155 , fish	5.000E+01	5.000E+01	BIOFAC (29,1)
D-5	Eu-155 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC (29,2)
D-5				
D-5	Fe-55 , fish	2.000E+02	2.000E+02	BIOFAC (30,1)
D-5	Fe-55 , crustacea and mollusks	3.200E+03	3.200E+03	BIOFAC (30,2)
D-5				
D-5	Gd-152 , fish	2.500E+01	2.500E+01	BIOFAC (31,1)
D-5	Gd-152 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC (31,2)
D-5				
D-5	Gd-153 , fish	2.500E+01	2.500E+01	BIOFAC (32,1)
D-5	Gd-153 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC (32,2)
D-5				
D-5	Ge-68+D , fish	4.000E+03	4.000E+03	BIOFAC (33,1)
D-5	Ge-68+D , crustacea and mollusks	2.000E+04	2.000E+04	BIOFAC (33,2)
D-5				
D-5	H-3 , fish	1.000E+00	1.000E+00	BIOFAC (34,1)
D-5	H-3 , crustacea and mollusks	1.000E+00	1.000E+00	BIOFAC (34,2)
D-5				
D-5	I-129 , fish	4.000E+01	4.000E+01	BIOFAC (35,1)
D-5	I-129 , crustacea and mollusks	5.000E+00	5.000E+00	BIOFAC (35,2)
D-5				
D-5	K-40 , fish	1.000E+03	1.000E+03	BIOFAC (36,1)
D-5	K-40 , crustacea and mollusks	2.000E+02	2.000E+02	BIOFAC (36,2)
D-5				
D-5	Mn-54 , fish	4.000E+02	4.000E+02	BIOFAC (37,1)
D-5	Mn-54 , crustacea and mollusks	9.000E+04	9.000E+04	BIOFAC (37,2)
D-5				

Dose Conversion Factor (and Related) Parameter Summary (continued)
 File: HEAST 1995 Morbidity

Menu	Parameter	Current Value	Default	Parameter Name
D-5	Na-22 , fish	2.000E+01	2.000E+01	BIOFAC(38,1)
D-5	Na-22 , crustacea and mollusks	2.000E+02	2.000E+02	BIOFAC(38,2)
D-5				
D-5	Nb-93m , fish	3.000E+02	3.000E+02	BIOFAC(39,1)
D-5	Nb-93m , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC(39,2)
D-5				
D-5	Nb-94 , fish	3.000E+02	3.000E+02	BIOFAC(40,1)
D-5	Nb-94 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC(40,2)
D-5				
D-5	Ni-59 , fish	1.000E+02	1.000E+02	BIOFAC(41,1)
D-5	Ni-59 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC(41,2)
D-5				
D-5	Ni-63 , fish	1.000E+02	1.000E+02	BIOFAC(42,1)
D-5	Ni-63 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC(42,2)
D-5				
D-5	Np-237+D , fish	3.000E+01	3.000E+01	BIOFAC(43,1)
D-5	Np-237+D , crustacea and mollusks	4.000E+02	4.000E+02	BIOFAC(43,2)
D-5				
D-5	Pa-231 , fish	1.000E+01	1.000E+01	BIOFAC(44,1)
D-5	Pa-231 , crustacea and mollusks	1.100E+02	1.100E+02	BIOFAC(44,2)
D-5				
D-5	Pb-210+D , fish	3.000E+02	3.000E+02	BIOFAC(45,1)
D-5	Pb-210+D , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC(45,2)
D-5				
D-5	Pm-147 , fish	3.000E+01	3.000E+01	BIOFAC(46,1)
D-5	Pm-147 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC(46,2)
D-5				
D-5	Pu-238 , fish	3.000E+01	3.000E+01	BIOFAC(47,1)
D-5	Pu-238 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC(47,2)
D-5				
D-5	Pu-239 , fish	3.000E+01	3.000E+01	BIOFAC(48,1)
D-5	Pu-239 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC(48,2)
D-5				
D-5	Pu-240 , fish	3.000E+01	3.000E+01	BIOFAC(49,1)
D-5	Pu-240 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC(49,2)
D-5				
D-5	Pu-241+D , fish	3.000E+01	3.000E+01	BIOFAC(50,1)
D-5	Pu-241+D , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC(50,2)
D-5				
D-5	Pu-242 , fish	3.000E+01	3.000E+01	BIOFAC(52,1)
D-5	Pu-242 , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC(52,2)
D-5				
D-5	Pu-244+D , fish	3.000E+01	3.000E+01	BIOFAC(53,1)
D-5	Pu-244+D , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC(53,2)
D-5				
D-5	Ra-226+D , fish	5.000E+01	5.000E+01	BIOFAC(54,1)
D-5	Ra-226+D , crustacea and mollusks	2.500E+02	2.500E+02	BIOFAC(54,2)
D-5				
D-5	Ra-228+D , fish	5.000E+01	5.000E+01	BIOFAC(55,1)
D-5	Ra-228+D , crustacea and mollusks	2.500E+02	2.500E+02	BIOFAC(55,2)
D-5				

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

File: HEAST 1995 Morbidity

Menu	Parameter	Current Value	Default	Parameter Name
D-5	Ru-106+D , fish	1.000E+01	1.000E+01	BIOFAC (56,1)
D-5	Ru-106+D , crustacea and mollusks	3.000E+02	3.000E+02	BIOFAC (56,2)
D-5				
D-5	Sb-125+D , fish	1.000E+02	1.000E+02	BIOFAC (57,1)
D-5	Sb-125+D , crustacea and mollusks	1.000E+01	1.000E+01	BIOFAC (57,2)
D-5				
D-5	Sm-147 , fish	2.500E+01	2.500E+01	BIOFAC (58,1)
D-5	Sm-147 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC (58,2)
D-5				
D-5	Sm-151 , fish	2.500E+01	2.500E+01	BIOFAC (59,1)
D-5	Sm-151 , crustacea and mollusks	1.000E+03	1.000E+03	BIOFAC (59,2)
D-5				
D-5	Sr-90+D , fish	6.000E+01	6.000E+01	BIOFAC (60,1)
D-5	Sr-90+D , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC (60,2)
D-5				
D-5	Tc-99 , fish	2.000E+01	2.000E+01	BIOFAC (61,1)
D-5	Tc-99 , crustacea and mollusks	5.000E+00	5.000E+00	BIOFAC (61,2)
D-5				
D-5	Th-228+D , fish	1.000E+02	1.000E+02	BIOFAC (62,1)
D-5	Th-228+D , crustacea and mollusks	5.000E+02	5.000E+02	BIOFAC (62,2)
D-5				
D-5	Th-229+D , fish	1.000E+02	1.000E+02	BIOFAC (63,1)
D-5	Th-229+D , crustacea and mollusks	5.000E+02	5.000E+02	BIOFAC (63,2)
D-5				
D-5	Th-230 , fish	1.000E+02	1.000E+02	BIOFAC (64,1)
D-5	Th-230 , crustacea and mollusks	5.000E+02	5.000E+02	BIOFAC (64,2)
D-5				
D-5	Th-232 , fish	1.000E+02	1.000E+02	BIOFAC (65,1)
D-5	Th-232 , crustacea and mollusks	5.000E+02	5.000E+02	BIOFAC (65,2)
D-5				
D-5	Tl-204 , fish	1.000E+04	1.000E+04	BIOFAC (66,1)
D-5	Tl-204 , crustacea and mollusks	1.500E+04	1.500E+04	BIOFAC (66,2)
D-5				
D-5	U-233 , fish	1.000E+01	1.000E+01	BIOFAC (67,1)
D-5	U-233 , crustacea and mollusks	6.000E+01	6.000E+01	BIOFAC (67,2)
D-5				
D-5	U-234 , fish	1.000E+01	1.000E+01	BIOFAC (68,1)
D-5	U-234 , crustacea and mollusks	6.000E+01	6.000E+01	BIOFAC (68,2)
D-5				
D-5	U-235+D , fish	1.000E+01	1.000E+01	BIOFAC (69,1)
D-5	U-235+D , crustacea and mollusks	6.000E+01	6.000E+01	BIOFAC (69,2)
D-5				
D-5	U-236 , fish	1.000E+01	1.000E+01	BIOFAC (70,1)
D-5	U-236 , crustacea and mollusks	6.000E+01	6.000E+01	BIOFAC (70,2)
D-5				
D-5	U-238+D , fish	1.000E+01	1.000E+01	BIOFAC (71,1)
D-5	U-238+D , crustacea and mollusks	6.000E+01	6.000E+01	BIOFAC (71,2)
D-5				
D-5	Zn-65 , fish	1.000E+03	1.000E+03	BIOFAC (72,1)
D-5	Zn-65 , crustacea and mollusks	1.000E+04	1.000E+04	BIOFAC (72,2)

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)	8.822E+04	1.000E+04	---	AREA
R011	Thickness of contaminated zone (m)	3.360E+01	2.000E+00	---	THICK0
R011	Length parallel to aquifer flow (m)	5.820E+02	1.000E+02	---	LCZPAQ
R011	Basic radiation dose limit (mrem/yr)	2.500E+01	2.500E+01	---	BRDL
R011	Time since placement of material (yr)	0.000E+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)	3.000E+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)	5.000E+03	0.000E+00	---	T(9)
R011	Times for calculations (yr)	not used	0.000E+00	---	T(10)
R012	Initial principal radionuclide (pCi/g): Ac-227	3.200E+00	0.000E+00	---	S1(1)
R012	Initial principal radionuclide (pCi/g): Ag-108m	2.500E+01	0.000E+00	---	S1(2)
R012	Initial principal radionuclide (pCi/g): Ag-110m	2.500E+01	0.000E+00	---	S1(3)
R012	Initial principal radionuclide (pCi/g): Am-241	1.000E-01	0.000E+00	---	S1(4)
R012	Initial principal radionuclide (pCi/g): Am-243	1.000E-01	0.000E+00	---	S1(5)
R012	Initial principal radionuclide (pCi/g): Au-195	1.000E+02	0.000E+00	---	S1(6)
R012	Initial principal radionuclide (pCi/g): Ba-133	2.500E+01	0.000E+00	---	S1(7)
R012	Initial principal radionuclide (pCi/g): C-14	1.000E+01	0.000E+00	---	S1(8)
R012	Initial principal radionuclide (pCi/g): Ca-41	2.500E+01	0.000E+00	---	S1(9)
R012	Initial principal radionuclide (pCi/g): Cd-109	2.500E+01	0.000E+00	---	S1(10)
R012	Initial principal radionuclide (pCi/g): Ce-144	2.500E+01	0.000E+00	---	S1(11)
R012	Initial principal radionuclide (pCi/g): Cf-252	1.000E-01	0.000E+00	---	S1(12)
R012	Initial principal radionuclide (pCi/g): Cm-243	1.000E-01	0.000E+00	---	S1(13)
R012	Initial principal radionuclide (pCi/g): Cm-244	1.000E-01	0.000E+00	---	S1(15)
R012	Initial principal radionuclide (pCi/g): Cm-245	1.000E-01	0.000E+00	---	S1(16)
R012	Initial principal radionuclide (pCi/g): Cm-246	1.000E-01	0.000E+00	---	S1(18)
R012	Initial principal radionuclide (pCi/g): Cm-247	1.000E-01	0.000E+00	---	S1(19)
R012	Initial principal radionuclide (pCi/g): Co-57	2.500E+01	0.000E+00	---	S1(21)
R012	Initial principal radionuclide (pCi/g): Co-60	2.500E+01	0.000E+00	---	S1(22)
R012	Initial principal radionuclide (pCi/g): Cs-134	2.500E+01	0.000E+00	---	S1(23)
R012	Initial principal radionuclide (pCi/g): Cs-135	2.500E+01	0.000E+00	---	S1(24)
R012	Initial principal radionuclide (pCi/g): Cs-137	2.500E+01	0.000E+00	---	S1(25)
R012	Initial principal radionuclide (pCi/g): Eu-152	2.500E+01	0.000E+00	---	S1(26)
R012	Initial principal radionuclide (pCi/g): Eu-154	2.500E+01	0.000E+00	---	S1(28)
R012	Initial principal radionuclide (pCi/g): Eu-155	2.500E+01	0.000E+00	---	S1(29)
R012	Initial principal radionuclide (pCi/g): Fe-55	2.500E+01	0.000E+00	---	S1(30)
R012	Initial principal radionuclide (pCi/g): Gd-152	2.500E+01	0.000E+00	---	S1(31)
R012	Initial principal radionuclide (pCi/g): Gd-153	2.500E+01	0.000E+00	---	S1(32)
R012	Initial principal radionuclide (pCi/g): Ge-68	2.500E+01	0.000E+00	---	S1(33)
R012	Initial principal radionuclide (pCi/g): H-3	1.000E+03	0.000E+00	---	S1(34)
R012	Initial principal radionuclide (pCi/g): I-129	1.000E-02	0.000E+00	---	S1(35)
R012	Initial principal radionuclide (pCi/g): K-40	8.000E+02	0.000E+00	---	S1(36)
R012	Initial principal radionuclide (pCi/g): Mn-54	2.500E+01	0.000E+00	---	S1(37)
R012	Initial principal radionuclide (pCi/g): Na-22	2.500E+01	0.000E+00	---	S1(38)
R012	Initial principal radionuclide (pCi/g): Nb-93m	2.500E+01	0.000E+00	---	S1(39)
R012	Initial principal radionuclide (pCi/g): Nb-94	2.500E+01	0.000E+00	---	S1(40)

Site-Specific Parameter Summary (continued)

Menu	Parameter	User		Used by RESRAD		Parameter Name
		Input	Default	(If different from user input)		
R012	Initial principal radionuclide (pCi/g): Ni-59	2.500E+01	0.000E+00	---		S1(41)
R012	Initial principal radionuclide (pCi/g): Ni-63	2.500E+01	0.000E+00	---		S1(42)
R012	Initial principal radionuclide (pCi/g): Np-237	1.000E-01	0.000E+00	---		S1(43)
R012	Initial principal radionuclide (pCi/g): Pa-231	3.200E+00	0.000E+00	---		S1(44)
R012	Initial principal radionuclide (pCi/g): Pb-210	3.330E+02	0.000E+00	---		S1(45)
R012	Initial principal radionuclide (pCi/g): Pm-147	2.500E+01	0.000E+00	---		S1(46)
R012	Initial principal radionuclide (pCi/g): Pu-238	1.000E-01	0.000E+00	---		S1(47)
R012	Initial principal radionuclide (pCi/g): Pu-239	1.000E-01	0.000E+00	---		S1(48)
R012	Initial principal radionuclide (pCi/g): Pu-240	1.000E-01	0.000E+00	---		S1(49)
R012	Initial principal radionuclide (pCi/g): Pu-241	1.000E-01	0.000E+00	---		S1(50)
R012	Initial principal radionuclide (pCi/g): Pu-242	1.000E-01	0.000E+00	---		S1(52)
R012	Initial principal radionuclide (pCi/g): Pu-244	1.000E-01	0.000E+00	---		S1(53)
R012	Initial principal radionuclide (pCi/g): Ra-226	1.120E+02	0.000E+00	---		S1(54)
R012	Initial principal radionuclide (pCi/g): Ra-228	2.800E+01	0.000E+00	---		S1(55)
R012	Initial principal radionuclide (pCi/g): Ru-106	2.500E+01	0.000E+00	---		S1(56)
R012	Initial principal radionuclide (pCi/g): Sb-125	2.500E+01	0.000E+00	---		S1(57)
R012	Initial principal radionuclide (pCi/g): Sm-147	2.500E+01	0.000E+00	---		S1(58)
R012	Initial principal radionuclide (pCi/g): Sm-151	2.500E+01	0.000E+00	---		S1(59)
R012	Initial principal radionuclide (pCi/g): Sr-90	2.500E+01	0.000E+00	---		S1(60)
R012	Initial principal radionuclide (pCi/g): Tc-99	1.000E+00	0.000E+00	---		S1(61)
R012	Initial principal radionuclide (pCi/g): Th-228	2.800E+01	0.000E+00	---		S1(62)
R012	Initial principal radionuclide (pCi/g): Th-229	2.800E+01	0.000E+00	---		S1(63)
R012	Initial principal radionuclide (pCi/g): Th-230	8.300E+01	0.000E+00	---		S1(64)
R012	Initial principal radionuclide (pCi/g): Th-232	2.800E+01	0.000E+00	---		S1(65)
R012	Initial principal radionuclide (pCi/g): Tl-204	2.500E+01	0.000E+00	---		S1(66)
R012	Initial principal radionuclide (pCi/g): U-233	3.300E+00	0.000E+00	---		S1(67)
R012	Initial principal radionuclide (pCi/g): U-234	8.300E+01	0.000E+00	---		S1(68)
R012	Initial principal radionuclide (pCi/g): U-235	3.200E+00	0.000E+00	---		S1(69)
R012	Initial principal radionuclide (pCi/g): U-236	3.200E+00	0.000E+00	---		S1(70)
R012	Initial principal radionuclide (pCi/g): U-238	8.300E+01	0.000E+00	---		S1(71)
R012	Initial principal radionuclide (pCi/g): Zn-65	2.500E+01	0.000E+00	---		S1(72)
R012	Concentration in groundwater (pCi/L): Ac-227	not used	0.000E+00	---		W1(1)
R012	Concentration in groundwater (pCi/L): Ag-108m	not used	0.000E+00	---		W1(2)
R012	Concentration in groundwater (pCi/L): Ag-110m	not used	0.000E+00	---		W1(3)
R012	Concentration in groundwater (pCi/L): Am-241	not used	0.000E+00	---		W1(4)
R012	Concentration in groundwater (pCi/L): Am-243	not used	0.000E+00	---		W1(5)
R012	Concentration in groundwater (pCi/L): Au-195	not used	0.000E+00	---		W1(6)
R012	Concentration in groundwater (pCi/L): Ba-133	not used	0.000E+00	---		W1(7)
R012	Concentration in groundwater (pCi/L): C-14	not used	0.000E+00	---		W1(8)
R012	Concentration in groundwater (pCi/L): Ca-41	not used	0.000E+00	---		W1(9)
R012	Concentration in groundwater (pCi/L): Cd-109	not used	0.000E+00	---		W1(10)
R012	Concentration in groundwater (pCi/L): Ce-144	not used	0.000E+00	---		W1(11)
R012	Concentration in groundwater (pCi/L): Cf-252	not used	0.000E+00	---		W1(12)
R012	Concentration in groundwater (pCi/L): Cm-243	not used	0.000E+00	---		W1(13)
R012	Concentration in groundwater (pCi/L): Cm-244	not used	0.000E+00	---		W1(15)
R012	Concentration in groundwater (pCi/L): Cm-245	not used	0.000E+00	---		W1(16)
R012	Concentration in groundwater (pCi/L): Cm-246	not used	0.000E+00	---		W1(18)
R012	Concentration in groundwater (pCi/L): Cm-247	not used	0.000E+00	---		W1(19)
R012	Concentration in groundwater (pCi/L): Co-57	not used	0.000E+00	---		W1(21)
R012	Concentration in groundwater (pCi/L): Co-60	not used	0.000E+00	---		W1(22)
R012	Concentration in groundwater (pCi/L): Cs-134	not used	0.000E+00	---		W1(23)

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-135	not used	0.000E+00	---	W1 (24)
R012	Concentration in groundwater (pCi/L): Cs-137	not used	0.000E+00	---	W1 (25)
R012	Concentration in groundwater (pCi/L): Eu-152	not used	0.000E+00	---	W1 (26)
R012	Concentration in groundwater (pCi/L): Eu-154	not used	0.000E+00	---	W1 (28)
R012	Concentration in groundwater (pCi/L): Eu-155	not used	0.000E+00	---	W1 (29)
R012	Concentration in groundwater (pCi/L): Fe-55	not used	0.000E+00	---	W1 (30)
R012	Concentration in groundwater (pCi/L): Gd-152	not used	0.000E+00	---	W1 (31)
R012	Concentration in groundwater (pCi/L): Gd-153	not used	0.000E+00	---	W1 (32)
R012	Concentration in groundwater (pCi/L): Ge-68	not used	0.000E+00	---	W1 (33)
R012	Concentration in groundwater (pCi/L): H-3	not used	0.000E+00	---	W1 (34)
R012	Concentration in groundwater (pCi/L): I-129	not used	0.000E+00	---	W1 (35)
R012	Concentration in groundwater (pCi/L): K-40	not used	0.000E+00	---	W1 (36)
R012	Concentration in groundwater (pCi/L): Mn-54	not used	0.000E+00	---	W1 (37)
R012	Concentration in groundwater (pCi/L): Na-22	not used	0.000E+00	---	W1 (38)
R012	Concentration in groundwater (pCi/L): Nb-93m	not used	0.000E+00	---	W1 (39)
R012	Concentration in groundwater (pCi/L): Nb-94	not used	0.000E+00	---	W1 (40)
R012	Concentration in groundwater (pCi/L): Ni-59	not used	0.000E+00	---	W1 (41)
R012	Concentration in groundwater (pCi/L): Ni-63	not used	0.000E+00	---	W1 (42)
R012	Concentration in groundwater (pCi/L): Np-237	not used	0.000E+00	---	W1 (43)
R012	Concentration in groundwater (pCi/L): Pa-231	not used	0.000E+00	---	W1 (44)
R012	Concentration in groundwater (pCi/L): Pb-210	not used	0.000E+00	---	W1 (45)
R012	Concentration in groundwater (pCi/L): Pm-147	not used	0.000E+00	---	W1 (46)
R012	Concentration in groundwater (pCi/L): Pu-238	not used	0.000E+00	---	W1 (47)
R012	Concentration in groundwater (pCi/L): Pu-239	not used	0.000E+00	---	W1 (48)
R012	Concentration in groundwater (pCi/L): Pu-240	not used	0.000E+00	---	W1 (49)
R012	Concentration in groundwater (pCi/L): Pu-241	not used	0.000E+00	---	W1 (50)
R012	Concentration in groundwater (pCi/L): Pu-242	not used	0.000E+00	---	W1 (52)
R012	Concentration in groundwater (pCi/L): Pu-244	not used	0.000E+00	---	W1 (53)
R012	Concentration in groundwater (pCi/L): Ra-226	not used	0.000E+00	---	W1 (54)
R012	Concentration in groundwater (pCi/L): Ra-228	not used	0.000E+00	---	W1 (55)
R012	Concentration in groundwater (pCi/L): Ru-106	not used	0.000E+00	---	W1 (56)
R012	Concentration in groundwater (pCi/L): Sb-125	not used	0.000E+00	---	W1 (57)
R012	Concentration in groundwater (pCi/L): Sm-147	not used	0.000E+00	---	W1 (58)
R012	Concentration in groundwater (pCi/L): Sm-151	not used	0.000E+00	---	W1 (59)
R012	Concentration in groundwater (pCi/L): Sr-90	not used	0.000E+00	---	W1 (60)
R012	Concentration in groundwater (pCi/L): Tc-99	not used	0.000E+00	---	W1 (61)
R012	Concentration in groundwater (pCi/L): Th-228	not used	0.000E+00	---	W1 (62)
R012	Concentration in groundwater (pCi/L): Th-229	not used	0.000E+00	---	W1 (63)
R012	Concentration in groundwater (pCi/L): Th-230	not used	0.000E+00	---	W1 (64)
R012	Concentration in groundwater (pCi/L): Th-232	not used	0.000E+00	---	W1 (65)
R012	Concentration in groundwater (pCi/L): Tl-204	not used	0.000E+00	---	W1 (66)
R012	Concentration in groundwater (pCi/L): U-233	not used	0.000E+00	---	W1 (67)
R012	Concentration in groundwater (pCi/L): U-234	not used	0.000E+00	---	W1 (68)
R012	Concentration in groundwater (pCi/L): U-235	not used	0.000E+00	---	W1 (69)
R012	Concentration in groundwater (pCi/L): U-236	not used	0.000E+00	---	W1 (70)
R012	Concentration in groundwater (pCi/L): U-238	not used	0.000E+00	---	W1 (71)
R012	Concentration in groundwater (pCi/L): Zn-65	not used	0.000E+00	---	W1 (72)
R013	Cover depth (m)	3.600E+00	0.000E+00	---	COVER0
R013	Density of cover material (g/cm**3)	1.780E+00	1.500E+00	---	DENSCV
R013	Cover depth erosion rate (m/yr)	1.000E-04	1.000E-03	---	VCV

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R013	Density of contaminated zone (g/cm**3)	1.500E+00	1.500E+00	---	DENSCZ
R013	Contaminated zone erosion rate (m/yr)	1.000E-03	1.000E-03	---	VCZ
R013	Contaminated zone total porosity	4.000E-01	4.000E-01	---	TPCZ
R013	Contaminated zone field capacity	2.000E-01	2.000E-01	---	FCCZ
R013	Contaminated zone hydraulic conductivity (m/yr)	5.000E+01	1.000E+01	---	HCCZ
R013	Contaminated zone b parameter	5.000E+00	5.300E+00	---	BCZ
R013	Average annual wind speed (m/sec)	2.000E+00	2.000E+00	---	WIND
R013	Humidity in air (g/m**3)	8.000E+00	8.000E+00	---	HUMID
R013	Evapotranspiration coefficient	7.500E-01	5.000E-01	---	EVAPTR
R013	Precipitation (m/yr)	1.840E-01	1.000E+00	---	PRECIP
R013	Irrigation (m/yr)	2.000E-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	---	EPS
R014	Density of saturated zone (g/cm**3)	1.500E+00	1.500E+00	---	DENSAQ
R014	Saturated zone total porosity	4.000E-01	4.000E-01	---	TPSZ
R014	Saturated zone effective porosity	2.000E-01	2.000E-01	---	EPSZ
R014	Saturated zone field capacity	2.500E-01	2.000E-01	---	FCSZ
R014	Saturated zone hydraulic conductivity (m/yr)	2.500E+01	1.000E+02	---	HCSZ
R014	Saturated zone hydraulic gradient	1.100E-02	2.000E-02	---	HGWT
R014	Saturated zone b parameter	5.000E+00	5.300E+00	---	BSZ
R014	Water table drop rate (m/yr)	1.000E-03	1.000E-03	---	VWT
R014	Well pump intake depth (m below water table)	1.000E+01	1.000E+01	---	DWIBWT
R014	Model: Nondispersion (ND) or Mass-Balance (MB)	ND	ND	---	MODEL
R014	Well pumping rate (m**3/yr)	2.500E+02	2.500E+02	---	UW
R015	Number of unsaturated zone strata	5	1	---	NS
R015	Unsat. zone 1, thickness (m)	1.000E+00	4.000E+00	---	H(1)
R015	Unsat. zone 1, soil density (g/cm**3)	1.630E+00	1.500E+00	---	DENSUZ(1)
R015	Unsat. zone 1, total porosity	5.200E-01	4.000E-01	---	TPUZ(1)
R015	Unsat. zone 1, effective porosity	1.000E-01	2.000E-01	---	EPUZ(1)
R015	Unsat. zone 1, field capacity	4.500E-01	2.000E-01	---	FCUZ(1)
R015	Unsat. zone 1, soil-specific b parameter	1.100E+01	5.300E+00	---	BUZ(1)
R015	Unsat. zone 1, hydraulic conductivity (m/yr)	1.500E-02	1.000E+01	---	HCUZ(1)
R015	Unsat. zone 2, thickness (m)	4.600E+00	0.000E+00	---	H(2)
R015	Unsat. zone 2, soil density (g/cm**3)	1.690E+00	1.500E+00	---	DENSUZ(2)
R015	Unsat. zone 2, total porosity	5.100E-01	4.000E-01	---	TPUZ(2)
R015	Unsat. zone 2, effective porosity	3.300E-01	2.000E-01	---	EPUZ(2)
R015	Unsat. zone 2, field capacity	7.000E-02	2.000E-01	---	FCUZ(2)
R015	Unsat. zone 2, soil-specific b parameter	2.000E+00	5.300E+00	---	BUZ(2)
R015	Unsat. zone 2, hydraulic conductivity (m/yr)	2.200E+03	1.000E+01	---	HCUZ(2)

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R015	Unsat. zone 3, thickness (m)	2.130E+01	0.000E+00	---	H(3)
R015	Unsat. zone 3, soil density (g/cm**3)	1.300E+00	1.500E+00	---	DENSUZ(3)
R015	Unsat. zone 3, total porosity	5.200E-01	4.000E-01	---	TPUZ(3)
R015	Unsat. zone 3, effective porosity	4.000E-01	2.000E-01	---	EPUZ(3)
R015	Unsat. zone 3, field capacity	4.900E-01	2.000E-01	---	FCUZ(3)
R015	Unsat. zone 3, soil-specific b parameter	3.000E+00	5.300E+00	---	BUZ(3)
R015	Unsat. zone 3, hydraulic conductivity (m/yr)	9.000E+02	1.000E+01	---	HCUZ(3)
R015	Unsat. zone 4, thickness (m)	1.680E+01	0.000E+00	---	H(4)
R015	Unsat. zone 4, soil density (g/cm**3)	1.310E+00	1.500E+00	---	DENSUZ(4)
R015	Unsat. zone 4, total porosity	5.100E-01	4.000E-01	---	TPUZ(4)
R015	Unsat. zone 4, effective porosity	4.300E-01	2.000E-01	---	EPUZ(4)
R015	Unsat. zone 4, field capacity	4.800E-01	2.000E-01	---	FCUZ(4)
R015	Unsat. zone 4, soil-specific b parameter	5.000E+00	5.300E+00	---	BUZ(4)
R015	Unsat. zone 4, hydraulic conductivity (m/yr)	6.000E+01	1.000E+01	---	HCUZ(4)
R015	Unsat. zone 5, thickness (m)	1.220E+01	0.000E+00	---	H(5)
R015	Unsat. zone 5, soil density (g/cm**3)	1.500E+00	1.500E+00	---	DENSUZ(5)
R015	Unsat. zone 5, total porosity	5.200E-01	4.000E-01	---	TPUZ(5)
R015	Unsat. zone 5, effective porosity	1.500E-01	2.000E-01	---	EPUZ(5)
R015	Unsat. zone 5, field capacity	3.200E-01	2.000E-01	---	FCUZ(5)
R015	Unsat. zone 5, soil-specific b parameter	8.000E+00	5.300E+00	---	BUZ(5)
R015	Unsat. zone 5, hydraulic conductivity (m/yr)	1.000E-01	1.000E+01	---	HCUZ(5)
R016	Distribution coefficients for Ac-227				
R016	Contaminated zone (cm**3/g)	4.500E+02	2.000E+01	---	DCNUCC(1)
R016	Unsaturated zone 1 (cm**3/g)	2.400E+03	2.000E+01	---	DCNUCU(1,1)
R016	Unsaturated zone 2 (cm**3/g)	4.500E+02	2.000E+01	---	DCNUCU(1,2)
R016	Unsaturated zone 3 (cm**3/g)	4.500E+02	2.000E+01	---	DCNUCU(1,3)
R016	Unsaturated zone 4 (cm**3/g)	4.500E+02	2.000E+01	---	DCNUCU(1,4)
R016	Unsaturated zone 5 (cm**3/g)	4.500E+02	2.000E+01	---	DCNUCU(1,5)
R016	Saturated zone (cm**3/g)	4.500E+02	2.000E+01	---	DCNUCS(1)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	3.826E-06	ALEACH(1)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(1)
R016	Distribution coefficients for Ag-108m				
R016	Contaminated zone (cm**3/g)	9.000E+01	0.000E+00	---	DCNUCC(2)
R016	Unsaturated zone 1 (cm**3/g)	1.800E+02	0.000E+00	---	DCNUCU(2,1)
R016	Unsaturated zone 2 (cm**3/g)	9.000E+01	0.000E+00	---	DCNUCU(2,2)
R016	Unsaturated zone 3 (cm**3/g)	9.000E+01	0.000E+00	---	DCNUCU(2,3)
R016	Unsaturated zone 4 (cm**3/g)	9.000E+01	0.000E+00	---	DCNUCU(2,4)
R016	Unsaturated zone 5 (cm**3/g)	9.000E+01	0.000E+00	---	DCNUCU(2,5)
R016	Saturated zone (cm**3/g)	9.000E+01	0.000E+00	---	DCNUCS(2)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.910E-05	ALEACH(2)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(2)

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R016	Distribution coefficients for Ag-110m				
R016	Contaminated zone (cm**3/g)	9.000E+01	0.000E+00	---	DCNUCC (3)
R016	Unsaturated zone 1 (cm**3/g)	1.800E+02	0.000E+00	---	DCNUCU (3,1)
R016	Unsaturated zone 2 (cm**3/g)	9.000E+01	0.000E+00	---	DCNUCU (3,2)
R016	Unsaturated zone 3 (cm**3/g)	9.000E+01	0.000E+00	---	DCNUCU (3,3)
R016	Unsaturated zone 4 (cm**3/g)	9.000E+01	0.000E+00	---	DCNUCU (3,4)
R016	Unsaturated zone 5 (cm**3/g)	9.000E+01	0.000E+00	---	DCNUCU (3,5)
R016	Saturated zone (cm**3/g)	9.000E+01	0.000E+00	---	DCNUCS (3)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.910E-05	ALEACH (3)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (3)
R016	Distribution coefficients for Am-241				
R016	Contaminated zone (cm**3/g)	1.900E+03	2.000E+01	---	DCNUCC (4)
R016	Unsaturated zone 1 (cm**3/g)	8.400E+03	2.000E+01	---	DCNUCU (4,1)
R016	Unsaturated zone 2 (cm**3/g)	1.900E+03	2.000E+01	---	DCNUCU (4,2)
R016	Unsaturated zone 3 (cm**3/g)	1.900E+03	2.000E+01	---	DCNUCU (4,3)
R016	Unsaturated zone 4 (cm**3/g)	1.900E+03	2.000E+01	---	DCNUCU (4,4)
R016	Unsaturated zone 5 (cm**3/g)	1.900E+03	2.000E+01	---	DCNUCU (4,5)
R016	Saturated zone (cm**3/g)	1.900E+03	2.000E+01	---	DCNUCS (4)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	9.064E-07	ALEACH (4)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (4)
R016	Distribution coefficients for Am-243				
R016	Contaminated zone (cm**3/g)	1.900E+03	2.000E+01	---	DCNUCC (5)
R016	Unsaturated zone 1 (cm**3/g)	8.400E+03	2.000E+01	---	DCNUCU (5,1)
R016	Unsaturated zone 2 (cm**3/g)	1.900E+03	2.000E+01	---	DCNUCU (5,2)
R016	Unsaturated zone 3 (cm**3/g)	1.900E+03	2.000E+01	---	DCNUCU (5,3)
R016	Unsaturated zone 4 (cm**3/g)	1.900E+03	2.000E+01	---	DCNUCU (5,4)
R016	Unsaturated zone 5 (cm**3/g)	1.900E+03	2.000E+01	---	DCNUCU (5,5)
R016	Saturated zone (cm**3/g)	1.900E+03	2.000E+01	---	DCNUCS (5)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	9.064E-07	ALEACH (5)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (5)
R016	Distribution coefficients for Au-195				
R016	Contaminated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCC (6)
R016	Unsaturated zone 1 (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCU (6,1)
R016	Unsaturated zone 2 (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCU (6,2)
R016	Unsaturated zone 3 (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCU (6,3)
R016	Unsaturated zone 4 (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCU (6,4)
R016	Unsaturated zone 5 (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCU (6,5)
R016	Saturated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCS (6)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.053E-02	ALEACH (6)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (6)

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R016	Distribution coefficients for Ba-133				
R016	Contaminated zone (cm**3/g)	5.000E+01	5.000E+01	---	DCNUCC (7)
R016	Unsaturated zone 1 (cm**3/g)	5.000E+01	5.000E+01	---	DCNUCU (7,1)
R016	Unsaturated zone 2 (cm**3/g)	5.000E+01	5.000E+01	---	DCNUCU (7,2)
R016	Unsaturated zone 3 (cm**3/g)	5.000E+01	5.000E+01	---	DCNUCU (7,3)
R016	Unsaturated zone 4 (cm**3/g)	5.000E+01	5.000E+01	---	DCNUCU (7,4)
R016	Unsaturated zone 5 (cm**3/g)	5.000E+01	5.000E+01	---	DCNUCU (7,5)
R016	Saturated zone (cm**3/g)	5.000E+01	5.000E+01	---	DCNUCS (7)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	3.433E-05	ALEACH (7)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (7)
R016	Distribution coefficients for C-14				
R016	Contaminated zone (cm**3/g)	5.000E+00	0.000E+00	---	DCNUCC (8)
R016	Unsaturated zone 1 (cm**3/g)	1.000E+00	0.000E+00	---	DCNUCU (8,1)
R016	Unsaturated zone 2 (cm**3/g)	1.000E+00	0.000E+00	---	DCNUCU (8,2)
R016	Unsaturated zone 3 (cm**3/g)	1.000E+00	0.000E+00	---	DCNUCU (8,3)
R016	Unsaturated zone 4 (cm**3/g)	1.000E+00	0.000E+00	---	DCNUCU (8,4)
R016	Unsaturated zone 5 (cm**3/g)	1.000E+00	0.000E+00	---	DCNUCU (8,5)
R016	Saturated zone (cm**3/g)	1.000E+00	0.000E+00	---	DCNUCS (8)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	3.335E-04	ALEACH (8)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (8)
R016	Distribution coefficients for Ca-41				
R016	Contaminated zone (cm**3/g)	5.000E+00	5.000E+01	---	DCNUCC (9)
R016	Unsaturated zone 1 (cm**3/g)	5.000E+01	5.000E+01	---	DCNUCU (9,1)
R016	Unsaturated zone 2 (cm**3/g)	5.000E+00	5.000E+01	---	DCNUCU (9,2)
R016	Unsaturated zone 3 (cm**3/g)	5.000E+00	5.000E+01	---	DCNUCU (9,3)
R016	Unsaturated zone 4 (cm**3/g)	5.000E+00	5.000E+01	---	DCNUCU (9,4)
R016	Unsaturated zone 5 (cm**3/g)	5.000E+00	5.000E+01	---	DCNUCU (9,5)
R016	Saturated zone (cm**3/g)	5.000E+00	5.000E+01	---	DCNUCS (9)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	3.335E-04	ALEACH (9)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (9)
R016	Distribution coefficients for Cd-109				
R016	Contaminated zone (cm**3/g)	1.100E+01	0.000E+00	---	DCNUCC (10)
R016	Unsaturated zone 1 (cm**3/g)	5.600E+02	0.000E+00	---	DCNUCU (10,1)
R016	Unsaturated zone 2 (cm**3/g)	1.100E+01	0.000E+00	---	DCNUCU (10,2)
R016	Unsaturated zone 3 (cm**3/g)	1.100E+01	0.000E+00	---	DCNUCU (10,3)
R016	Unsaturated zone 4 (cm**3/g)	1.100E+01	0.000E+00	---	DCNUCU (10,4)
R016	Unsaturated zone 5 (cm**3/g)	1.100E+01	0.000E+00	---	DCNUCU (10,5)
R016	Saturated zone (cm**3/g)	1.100E+01	0.000E+00	---	DCNUCS (10)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.543E-04	ALEACH (10)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (10)

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R016	Distribution coefficients for Ce-144				
R016	Contaminated zone (cm**3/g)	5.000E+02	1.000E+03	---	DCNUCC(11)
R016	Unsaturated zone 1 (cm**3/g)	2.000E+04	1.000E+03	---	DCNUCU(11,1)
R016	Unsaturated zone 2 (cm**3/g)	5.000E+02	1.000E+03	---	DCNUCU(11,2)
R016	Unsaturated zone 3 (cm**3/g)	5.000E+02	1.000E+03	---	DCNUCU(11,3)
R016	Unsaturated zone 4 (cm**3/g)	5.000E+02	1.000E+03	---	DCNUCU(11,4)
R016	Unsaturated zone 5 (cm**3/g)	5.000E+02	1.000E+03	---	DCNUCU(11,5)
R016	Saturated zone (cm**3/g)	5.000E+02	1.000E+03	---	DCNUCS(11)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	3.443E-06	ALEACH(11)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(11)
R016	Distribution coefficients for Cf-252				
R016	Contaminated zone (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCC(12)
R016	Unsaturated zone 1 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU(12,1)
R016	Unsaturated zone 2 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU(12,2)
R016	Unsaturated zone 3 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU(12,3)
R016	Unsaturated zone 4 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU(12,4)
R016	Unsaturated zone 5 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU(12,5)
R016	Saturated zone (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCS(12)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.250E-06	ALEACH(12)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(12)
R016	Distribution coefficients for Cm-243				
R016	Contaminated zone (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCC(13)
R016	Unsaturated zone 1 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU(13,1)
R016	Unsaturated zone 2 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU(13,2)
R016	Unsaturated zone 3 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU(13,3)
R016	Unsaturated zone 4 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU(13,4)
R016	Unsaturated zone 5 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU(13,5)
R016	Saturated zone (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCS(13)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.250E-06	ALEACH(13)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(13)
R016	Distribution coefficients for Cm-244				
R016	Contaminated zone (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCC(15)
R016	Unsaturated zone 1 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU(15,1)
R016	Unsaturated zone 2 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU(15,2)
R016	Unsaturated zone 3 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU(15,3)
R016	Unsaturated zone 4 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU(15,4)
R016	Unsaturated zone 5 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU(15,5)
R016	Saturated zone (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCS(15)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.250E-06	ALEACH(15)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(15)

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R016	Distribution coefficients for Cm-245				
R016	Contaminated zone (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCC (16)
R016	Unsaturated zone 1 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU (16,1)
R016	Unsaturated zone 2 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU (16,2)
R016	Unsaturated zone 3 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU (16,3)
R016	Unsaturated zone 4 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU (16,4)
R016	Unsaturated zone 5 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU (16,5)
R016	Saturated zone (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCS (16)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.250E-06	ALEACH (16)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (16)
R016	Distribution coefficients for Cm-246				
R016	Contaminated zone (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCC (18)
R016	Unsaturated zone 1 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU (18,1)
R016	Unsaturated zone 2 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU (18,2)
R016	Unsaturated zone 3 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU (18,3)
R016	Unsaturated zone 4 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU (18,4)
R016	Unsaturated zone 5 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU (18,5)
R016	Saturated zone (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCS (18)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.250E-06	ALEACH (18)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (18)
R016	Distribution coefficients for Cm-247				
R016	Contaminated zone (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCC (19)
R016	Unsaturated zone 1 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU (19,1)
R016	Unsaturated zone 2 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU (19,2)
R016	Unsaturated zone 3 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU (19,3)
R016	Unsaturated zone 4 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU (19,4)
R016	Unsaturated zone 5 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU (19,5)
R016	Saturated zone (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCS (19)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.250E-06	ALEACH (19)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (19)
R016	Distribution coefficients for Co-57				
R016	Contaminated zone (cm**3/g)	6.000E+01	1.000E+03	---	DCNUCC (21)
R016	Unsaturated zone 1 (cm**3/g)	5.500E+02	1.000E+03	---	DCNUCU (21,1)
R016	Unsaturated zone 2 (cm**3/g)	6.000E+01	1.000E+03	---	DCNUCU (21,2)
R016	Unsaturated zone 3 (cm**3/g)	6.000E+01	1.000E+03	---	DCNUCU (21,3)
R016	Unsaturated zone 4 (cm**3/g)	6.000E+01	1.000E+03	---	DCNUCU (21,4)
R016	Unsaturated zone 5 (cm**3/g)	6.000E+01	1.000E+03	---	DCNUCU (21,5)
R016	Saturated zone (cm**3/g)	6.000E+01	1.000E+03	---	DCNUCS (21)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	2.863E-05	ALEACH (21)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (21)

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R016	Distribution coefficients for Co-60				
R016	Contaminated zone (cm**3/g)	6.000E+01	1.000E+03	---	DCNUCC (22)
R016	Unsaturated zone 1 (cm**3/g)	5.500E+02	1.000E+03	---	DCNUCU (22,1)
R016	Unsaturated zone 2 (cm**3/g)	6.000E+01	1.000E+03	---	DCNUCU (22,2)
R016	Unsaturated zone 3 (cm**3/g)	6.000E+01	1.000E+03	---	DCNUCU (22,3)
R016	Unsaturated zone 4 (cm**3/g)	6.000E+01	1.000E+03	---	DCNUCU (22,4)
R016	Unsaturated zone 5 (cm**3/g)	6.000E+01	1.000E+03	---	DCNUCU (22,5)
R016	Saturated zone (cm**3/g)	6.000E+01	1.000E+03	---	DCNUCS (22)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	2.863E-05	ALEACH (22)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (22)
R016	Distribution coefficients for Cs-134				
R016	Contaminated zone (cm**3/g)	2.800E+02	1.000E+03	---	DCNUCC (23)
R016	Unsaturated zone 1 (cm**3/g)	5.000E+02	1.000E+03	---	DCNUCU (23,1)
R016	Unsaturated zone 2 (cm**3/g)	2.800E+02	1.000E+03	---	DCNUCU (23,2)
R016	Unsaturated zone 3 (cm**3/g)	2.800E+02	1.000E+03	---	DCNUCU (23,3)
R016	Unsaturated zone 4 (cm**3/g)	2.800E+02	1.000E+03	---	DCNUCU (23,4)
R016	Unsaturated zone 5 (cm**3/g)	2.800E+02	1.000E+03	---	DCNUCU (23,5)
R016	Saturated zone (cm**3/g)	2.800E+02	1.000E+03	---	DCNUCS (23)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	6.147E-06	ALEACH (23)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (23)
R016	Distribution coefficients for Cs-135				
R016	Contaminated zone (cm**3/g)	2.800E+02	1.000E+03	---	DCNUCC (24)
R016	Unsaturated zone 1 (cm**3/g)	5.000E+02	1.000E+03	---	DCNUCU (24,1)
R016	Unsaturated zone 2 (cm**3/g)	2.800E+02	1.000E+03	---	DCNUCU (24,2)
R016	Unsaturated zone 3 (cm**3/g)	2.800E+02	1.000E+03	---	DCNUCU (24,3)
R016	Unsaturated zone 4 (cm**3/g)	2.800E+02	1.000E+03	---	DCNUCU (24,4)
R016	Unsaturated zone 5 (cm**3/g)	2.800E+02	1.000E+03	---	DCNUCU (24,5)
R016	Saturated zone (cm**3/g)	2.800E+02	1.000E+03	---	DCNUCS (24)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	6.147E-06	ALEACH (24)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (24)
R016	Distribution coefficients for Cs-137				
R016	Contaminated zone (cm**3/g)	2.800E+02	1.000E+03	---	DCNUCC (25)
R016	Unsaturated zone 1 (cm**3/g)	5.000E+02	1.000E+03	---	DCNUCU (25,1)
R016	Unsaturated zone 2 (cm**3/g)	2.800E+02	1.000E+03	---	DCNUCU (25,2)
R016	Unsaturated zone 3 (cm**3/g)	2.800E+02	1.000E+03	---	DCNUCU (25,3)
R016	Unsaturated zone 4 (cm**3/g)	2.800E+02	1.000E+03	---	DCNUCU (25,4)
R016	Unsaturated zone 5 (cm**3/g)	2.800E+02	1.000E+03	---	DCNUCU (25,5)
R016	Saturated zone (cm**3/g)	2.800E+02	1.000E+03	---	DCNUCS (25)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	6.147E-06	ALEACH (25)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (25)

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R016	Distribution coefficients for Eu-152				
R016	Contaminated zone (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCC (26)
R016	Unsaturated zone 1 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (26,1)
R016	Unsaturated zone 2 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (26,2)
R016	Unsaturated zone 3 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (26,3)
R016	Unsaturated zone 4 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (26,4)
R016	Unsaturated zone 5 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (26,5)
R016	Saturated zone (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCS (26)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	2.087E-06	ALEACH (26)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (26)
R016	Distribution coefficients for Eu-154				
R016	Contaminated zone (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCC (28)
R016	Unsaturated zone 1 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (28,1)
R016	Unsaturated zone 2 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (28,2)
R016	Unsaturated zone 3 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (28,3)
R016	Unsaturated zone 4 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (28,4)
R016	Unsaturated zone 5 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (28,5)
R016	Saturated zone (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCS (28)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	2.087E-06	ALEACH (28)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (28)
R016	Distribution coefficients for Eu-155				
R016	Contaminated zone (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCC (29)
R016	Unsaturated zone 1 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (29,1)
R016	Unsaturated zone 2 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (29,2)
R016	Unsaturated zone 3 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (29,3)
R016	Unsaturated zone 4 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (29,4)
R016	Unsaturated zone 5 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (29,5)
R016	Saturated zone (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCS (29)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	2.087E-06	ALEACH (29)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (29)
R016	Distribution coefficients for Fe-55				
R016	Contaminated zone (cm**3/g)	2.200E+02	1.000E+03	---	DCNUCC (30)
R016	Unsaturated zone 1 (cm**3/g)	1.650E+02	1.000E+03	---	DCNUCU (30,1)
R016	Unsaturated zone 2 (cm**3/g)	2.200E+02	1.000E+03	---	DCNUCU (30,2)
R016	Unsaturated zone 3 (cm**3/g)	2.200E+02	1.000E+03	---	DCNUCU (30,3)
R016	Unsaturated zone 4 (cm**3/g)	2.200E+02	1.000E+03	---	DCNUCU (30,4)
R016	Unsaturated zone 5 (cm**3/g)	2.200E+02	1.000E+03	---	DCNUCU (30,5)
R016	Saturated zone (cm**3/g)	2.200E+02	1.000E+03	---	DCNUCS (30)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	7.822E-06	ALEACH (30)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (30)

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R016	Distribution coefficients for Gd-152				
R016	Contaminated zone (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCC (31)
R016	Unsaturated zone 1 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (31, 1)
R016	Unsaturated zone 2 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (31, 2)
R016	Unsaturated zone 3 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (31, 3)
R016	Unsaturated zone 4 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (31, 4)
R016	Unsaturated zone 5 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (31, 5)
R016	Saturated zone (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCS (31)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	2.087E-06	ALEACH (31)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (31)
R016	Distribution coefficients for Gd-153				
R016	Contaminated zone (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCC (32)
R016	Unsaturated zone 1 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (32, 1)
R016	Unsaturated zone 2 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (32, 2)
R016	Unsaturated zone 3 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (32, 3)
R016	Unsaturated zone 4 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (32, 4)
R016	Unsaturated zone 5 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (32, 5)
R016	Saturated zone (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCS (32)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	2.087E-06	ALEACH (32)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (32)
R016	Distribution coefficients for Ge-68				
R016	Contaminated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCC (33)
R016	Unsaturated zone 1 (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCU (33, 1)
R016	Unsaturated zone 2 (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCU (33, 2)
R016	Unsaturated zone 3 (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCU (33, 3)
R016	Unsaturated zone 4 (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCU (33, 4)
R016	Unsaturated zone 5 (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCU (33, 5)
R016	Saturated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCS (33)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.053E-02	ALEACH (33)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (33)
R016	Distribution coefficients for H-3				
R016	Contaminated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCC (34)
R016	Unsaturated zone 1 (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCU (34, 1)
R016	Unsaturated zone 2 (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCU (34, 2)
R016	Unsaturated zone 3 (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCU (34, 3)
R016	Unsaturated zone 4 (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCU (34, 4)
R016	Unsaturated zone 5 (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCU (34, 5)
R016	Saturated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCS (34)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.053E-02	ALEACH (34)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (34)

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R016	Distribution coefficients for I-129				
R016	Contaminated zone (cm**3/g)	2.000E-01	1.000E-01	---	DCNUCC (35)
R016	Unsaturated zone 1 (cm**3/g)	1.000E-01	1.000E-01	---	DCNUCU (35,1)
R016	Unsaturated zone 2 (cm**3/g)	1.000E-01	1.000E-01	---	DCNUCU (35,2)
R016	Unsaturated zone 3 (cm**3/g)	1.000E-01	1.000E-01	---	DCNUCU (35,3)
R016	Unsaturated zone 4 (cm**3/g)	1.000E-01	1.000E-01	---	DCNUCU (35,4)
R016	Unsaturated zone 5 (cm**3/g)	1.000E-01	1.000E-01	---	DCNUCU (35,5)
R016	Saturated zone (cm**3/g)	1.000E-01	1.000E-01	---	DCNUCS (35)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	4.737E-03	ALEACH (35)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (35)
R016	Distribution coefficients for K-40				
R016	Contaminated zone (cm**3/g)	1.500E+01	5.500E+00	---	DCNUCC (36)
R016	Unsaturated zone 1 (cm**3/g)	7.500E+01	5.500E+00	---	DCNUCU (36,1)
R016	Unsaturated zone 2 (cm**3/g)	1.500E+01	5.500E+00	---	DCNUCU (36,2)
R016	Unsaturated zone 3 (cm**3/g)	1.500E+01	5.500E+00	---	DCNUCU (36,3)
R016	Unsaturated zone 4 (cm**3/g)	1.500E+01	5.500E+00	---	DCNUCU (36,4)
R016	Unsaturated zone 5 (cm**3/g)	1.500E+01	5.500E+00	---	DCNUCU (36,5)
R016	Saturated zone (cm**3/g)	1.500E+01	5.500E+00	---	DCNUCS (36)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.136E-04	ALEACH (36)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (36)
R016	Distribution coefficients for Mn-54				
R016	Contaminated zone (cm**3/g)	5.000E+01	2.000E+02	---	DCNUCC (37)
R016	Unsaturated zone 1 (cm**3/g)	1.800E+02	2.000E+02	---	DCNUCU (37,1)
R016	Unsaturated zone 2 (cm**3/g)	5.000E+01	2.000E+02	---	DCNUCU (37,2)
R016	Unsaturated zone 3 (cm**3/g)	5.000E+01	2.000E+02	---	DCNUCU (37,3)
R016	Unsaturated zone 4 (cm**3/g)	5.000E+01	2.000E+02	---	DCNUCU (37,4)
R016	Unsaturated zone 5 (cm**3/g)	5.000E+01	2.000E+02	---	DCNUCU (37,5)
R016	Saturated zone (cm**3/g)	5.000E+01	2.000E+02	---	DCNUCS (37)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	3.433E-05	ALEACH (37)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (37)
R016	Distribution coefficients for Na-22				
R016	Contaminated zone (cm**3/g)	1.000E+01	1.000E+01	---	DCNUCC (38)
R016	Unsaturated zone 1 (cm**3/g)	1.000E+01	1.000E+01	---	DCNUCU (38,1)
R016	Unsaturated zone 2 (cm**3/g)	1.000E+01	1.000E+01	---	DCNUCU (38,2)
R016	Unsaturated zone 3 (cm**3/g)	1.000E+01	1.000E+01	---	DCNUCU (38,3)
R016	Unsaturated zone 4 (cm**3/g)	1.000E+01	1.000E+01	---	DCNUCU (38,4)
R016	Unsaturated zone 5 (cm**3/g)	1.000E+01	1.000E+01	---	DCNUCU (38,5)
R016	Saturated zone (cm**3/g)	1.000E+01	1.000E+01	---	DCNUCS (38)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.695E-04	ALEACH (38)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (38)

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R016	Distribution coefficients for Nb-93m				
R016	Contaminated zone (cm**3/g)	1.600E+02	0.000E+00	---	DCNUCC (39)
R016	Unsaturated zone 1 (cm**3/g)	9.000E+02	0.000E+00	---	DCNUCU (39,1)
R016	Unsaturated zone 2 (cm**3/g)	1.600E+02	0.000E+00	---	DCNUCU (39,2)
R016	Unsaturated zone 3 (cm**3/g)	1.600E+02	0.000E+00	---	DCNUCU (39,3)
R016	Unsaturated zone 4 (cm**3/g)	1.600E+02	0.000E+00	---	DCNUCU (39,4)
R016	Unsaturated zone 5 (cm**3/g)	1.600E+02	0.000E+00	---	DCNUCU (39,5)
R016	Saturated zone (cm**3/g)	1.600E+02	0.000E+00	---	DCNUCS (39)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.075E-05	ALEACH (39)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (39)
R016	Distribution coefficients for Nb-94				
R016	Contaminated zone (cm**3/g)	1.600E+02	0.000E+00	---	DCNUCC (40)
R016	Unsaturated zone 1 (cm**3/g)	9.000E+02	0.000E+00	---	DCNUCU (40,1)
R016	Unsaturated zone 2 (cm**3/g)	1.600E+02	0.000E+00	---	DCNUCU (40,2)
R016	Unsaturated zone 3 (cm**3/g)	1.600E+02	0.000E+00	---	DCNUCU (40,3)
R016	Unsaturated zone 4 (cm**3/g)	1.600E+02	0.000E+00	---	DCNUCU (40,4)
R016	Unsaturated zone 5 (cm**3/g)	1.600E+02	0.000E+00	---	DCNUCU (40,5)
R016	Saturated zone (cm**3/g)	1.600E+02	0.000E+00	---	DCNUCS (40)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.075E-05	ALEACH (40)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (40)
R016	Distribution coefficients for Ni-59				
R016	Contaminated zone (cm**3/g)	4.000E+02	1.000E+03	---	DCNUCC (41)
R016	Unsaturated zone 1 (cm**3/g)	6.500E+02	1.000E+03	---	DCNUCU (41,1)
R016	Unsaturated zone 2 (cm**3/g)	4.000E+02	1.000E+03	---	DCNUCU (41,2)
R016	Unsaturated zone 3 (cm**3/g)	4.000E+02	1.000E+03	---	DCNUCU (41,3)
R016	Unsaturated zone 4 (cm**3/g)	4.000E+02	1.000E+03	---	DCNUCU (41,4)
R016	Unsaturated zone 5 (cm**3/g)	4.000E+02	1.000E+03	---	DCNUCU (41,5)
R016	Saturated zone (cm**3/g)	4.000E+02	1.000E+03	---	DCNUCS (41)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	4.304E-06	ALEACH (41)
R016	Solubility constant	4.000E+02	0.000E+00	Sol. Kd =-1.635E-01 not used	SOLUBK (41)
R016	Distribution coefficients for Ni-63				
R016	Contaminated zone (cm**3/g)	4.000E+02	1.000E+03	---	DCNUCC (42)
R016	Unsaturated zone 1 (cm**3/g)	6.500E+02	1.000E+03	---	DCNUCU (42,1)
R016	Unsaturated zone 2 (cm**3/g)	4.000E+02	1.000E+03	---	DCNUCU (42,2)
R016	Unsaturated zone 3 (cm**3/g)	4.000E+02	1.000E+03	---	DCNUCU (42,3)
R016	Unsaturated zone 4 (cm**3/g)	4.000E+02	1.000E+03	---	DCNUCU (42,4)
R016	Unsaturated zone 5 (cm**3/g)	4.000E+02	1.000E+03	---	DCNUCU (42,5)
R016	Saturated zone (cm**3/g)	4.000E+02	1.000E+03	---	DCNUCS (42)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	4.304E-06	ALEACH (42)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (42)

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R016	Distribution coefficients for Np-237				
R016	Contaminated zone (cm**3/g)	-1.000E+00	-1.000E+00	2.574E+02	DCNUCC (43)
R016	Unsaturated zone 1 (cm**3/g)	-1.000E+00	-1.000E+00	2.574E+02	DCNUCU (43, 1)
R016	Unsaturated zone 2 (cm**3/g)	-1.000E+00	-1.000E+00	2.574E+02	DCNUCU (43, 2)
R016	Unsaturated zone 3 (cm**3/g)	-1.000E+00	-1.000E+00	2.574E+02	DCNUCU (43, 3)
R016	Unsaturated zone 4 (cm**3/g)	-1.000E+00	-1.000E+00	2.574E+02	DCNUCU (43, 4)
R016	Unsaturated zone 5 (cm**3/g)	-1.000E+00	-1.000E+00	2.574E+02	DCNUCU (43, 5)
R016	Saturated zone (cm**3/g)	-1.000E+00	-1.000E+00	2.574E+02	DCNUCS (43)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	6.686E-06	ALEACH (43)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (43)
R016	Distribution coefficients for Pa-231				
R016	Contaminated zone (cm**3/g)	5.500E+02	5.000E+01	---	DCNUCC (44)
R016	Unsaturated zone 1 (cm**3/g)	2.700E+03	5.000E+01	---	DCNUCU (44, 1)
R016	Unsaturated zone 2 (cm**3/g)	5.500E+02	5.000E+01	---	DCNUCU (44, 2)
R016	Unsaturated zone 3 (cm**3/g)	5.500E+02	5.000E+01	---	DCNUCU (44, 3)
R016	Unsaturated zone 4 (cm**3/g)	5.500E+02	5.000E+01	---	DCNUCU (44, 4)
R016	Unsaturated zone 5 (cm**3/g)	5.500E+02	5.000E+01	---	DCNUCU (44, 5)
R016	Saturated zone (cm**3/g)	5.500E+02	5.000E+01	---	DCNUCS (44)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	3.130E-06	ALEACH (44)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (44)
R016	Distribution coefficients for Pb-210				
R016	Contaminated zone (cm**3/g)	2.700E+02	1.000E+02	---	DCNUCC (45)
R016	Unsaturated zone 1 (cm**3/g)	5.500E+02	1.000E+02	---	DCNUCU (45, 1)
R016	Unsaturated zone 2 (cm**3/g)	2.700E+02	1.000E+02	---	DCNUCU (45, 2)
R016	Unsaturated zone 3 (cm**3/g)	2.700E+02	1.000E+02	---	DCNUCU (45, 3)
R016	Unsaturated zone 4 (cm**3/g)	2.700E+02	1.000E+02	---	DCNUCU (45, 4)
R016	Unsaturated zone 5 (cm**3/g)	2.700E+02	1.000E+02	---	DCNUCU (45, 5)
R016	Saturated zone (cm**3/g)	2.701E+05	1.000E+02	---	DCNUCS (45)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	6.375E-06	ALEACH (45)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (45)
R016	Distribution coefficients for Pm-147				
R016	Contaminated zone (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCC (46)
R016	Unsaturated zone 1 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (46, 1)
R016	Unsaturated zone 2 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (46, 2)
R016	Unsaturated zone 3 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (46, 3)
R016	Unsaturated zone 4 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (46, 4)
R016	Unsaturated zone 5 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (46, 5)
R016	Saturated zone (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCS (46)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	2.087E-06	ALEACH (46)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (46)

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R016	Distribution coefficients for Pu-238				
R016	Contaminated zone (cm**3/g)	5.500E+02	2.000E+03	---	DCNUCC(47)
R016	Unsaturated zone 1 (cm**3/g)	5.100E+03	2.000E+03	---	DCNUCU(47,1)
R016	Unsaturated zone 2 (cm**3/g)	5.500E+02	2.000E+03	---	DCNUCU(47,2)
R016	Unsaturated zone 3 (cm**3/g)	5.500E+02	2.000E+03	---	DCNUCU(47,3)
R016	Unsaturated zone 4 (cm**3/g)	5.500E+02	2.000E+03	---	DCNUCU(47,4)
R016	Unsaturated zone 5 (cm**3/g)	5.500E+02	2.000E+03	---	DCNUCU(47,5)
R016	Saturated zone (cm**3/g)	5.500E+02	2.000E+03	---	DCNUCS(47)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	3.130E-06	ALEACH(47)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(47)
R016	Distribution coefficients for Pu-239				
R016	Contaminated zone (cm**3/g)	5.500E+02	2.000E+03	---	DCNUCC(48)
R016	Unsaturated zone 1 (cm**3/g)	5.100E+03	2.000E+03	---	DCNUCU(48,1)
R016	Unsaturated zone 2 (cm**3/g)	5.500E+02	2.000E+03	---	DCNUCU(48,2)
R016	Unsaturated zone 3 (cm**3/g)	5.500E+02	2.000E+03	---	DCNUCU(48,3)
R016	Unsaturated zone 4 (cm**3/g)	5.500E+02	2.000E+03	---	DCNUCU(48,4)
R016	Unsaturated zone 5 (cm**3/g)	5.500E+02	2.000E+03	---	DCNUCU(48,5)
R016	Saturated zone (cm**3/g)	5.500E+02	2.000E+03	---	DCNUCS(48)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	3.130E-06	ALEACH(48)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(48)
R016	Distribution coefficients for Pu-240				
R016	Contaminated zone (cm**3/g)	5.500E+02	2.000E+03	---	DCNUCC(49)
R016	Unsaturated zone 1 (cm**3/g)	5.100E+03	2.000E+03	---	DCNUCU(49,1)
R016	Unsaturated zone 2 (cm**3/g)	5.500E+02	2.000E+03	---	DCNUCU(49,2)
R016	Unsaturated zone 3 (cm**3/g)	5.500E+02	2.000E+03	---	DCNUCU(49,3)
R016	Unsaturated zone 4 (cm**3/g)	5.500E+02	2.000E+03	---	DCNUCU(49,4)
R016	Unsaturated zone 5 (cm**3/g)	5.500E+02	2.000E+03	---	DCNUCU(49,5)
R016	Saturated zone (cm**3/g)	5.500E+02	2.000E+03	---	DCNUCS(49)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	3.130E-06	ALEACH(49)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(49)
R016	Distribution coefficients for Pu-241				
R016	Contaminated zone (cm**3/g)	5.500E+02	2.000E+03	---	DCNUCC(50)
R016	Unsaturated zone 1 (cm**3/g)	5.100E+03	2.000E+03	---	DCNUCU(50,1)
R016	Unsaturated zone 2 (cm**3/g)	5.500E+02	2.000E+03	---	DCNUCU(50,2)
R016	Unsaturated zone 3 (cm**3/g)	5.500E+02	2.000E+03	---	DCNUCU(50,3)
R016	Unsaturated zone 4 (cm**3/g)	5.500E+02	2.000E+03	---	DCNUCU(50,4)
R016	Unsaturated zone 5 (cm**3/g)	5.500E+02	2.000E+03	---	DCNUCU(50,5)
R016	Saturated zone (cm**3/g)	5.500E+02	2.000E+03	---	DCNUCS(50)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	3.130E-06	ALEACH(50)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(50)

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R016	Distribution coefficients for Pu-242				
R016	Contaminated zone (cm**3/g)	5.500E+02	2.000E+03	---	DCNUCC (52)
R016	Unsaturated zone 1 (cm**3/g)	5.100E+03	2.000E+03	---	DCNUCU (52, 1)
R016	Unsaturated zone 2 (cm**3/g)	5.500E+02	2.000E+03	---	DCNUCU (52, 2)
R016	Unsaturated zone 3 (cm**3/g)	5.500E+02	2.000E+03	---	DCNUCU (52, 3)
R016	Unsaturated zone 4 (cm**3/g)	5.500E+02	2.000E+03	---	DCNUCU (52, 4)
R016	Unsaturated zone 5 (cm**3/g)	5.500E+02	2.000E+03	---	DCNUCU (52, 5)
R016	Saturated zone (cm**3/g)	5.500E+02	2.000E+03	---	DCNUCS (52)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	3.130E-06	ALEACH (52)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (52)
R016	Distribution coefficients for Pu-244				
R016	Contaminated zone (cm**3/g)	5.500E+02	2.000E+03	---	DCNUCC (53)
R016	Unsaturated zone 1 (cm**3/g)	5.100E+03	2.000E+03	---	DCNUCU (53, 1)
R016	Unsaturated zone 2 (cm**3/g)	5.500E+02	2.000E+03	---	DCNUCU (53, 2)
R016	Unsaturated zone 3 (cm**3/g)	5.500E+02	2.000E+03	---	DCNUCU (53, 3)
R016	Unsaturated zone 4 (cm**3/g)	5.500E+02	2.000E+03	---	DCNUCU (53, 4)
R016	Unsaturated zone 5 (cm**3/g)	5.500E+02	2.000E+03	---	DCNUCU (53, 5)
R016	Saturated zone (cm**3/g)	5.500E+02	2.000E+03	---	DCNUCS (53)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	3.130E-06	ALEACH (53)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (53)
R016	Distribution coefficients for Ra-226				
R016	Contaminated zone (cm**3/g)	7.000E+01	7.000E+01	---	DCNUCC (54)
R016	Unsaturated zone 1 (cm**3/g)	7.000E+01	7.000E+01	---	DCNUCU (54, 1)
R016	Unsaturated zone 2 (cm**3/g)	7.000E+01	7.000E+01	---	DCNUCU (54, 2)
R016	Unsaturated zone 3 (cm**3/g)	7.000E+01	7.000E+01	---	DCNUCU (54, 3)
R016	Unsaturated zone 4 (cm**3/g)	7.000E+01	7.000E+01	---	DCNUCU (54, 4)
R016	Unsaturated zone 5 (cm**3/g)	7.000E+01	7.000E+01	---	DCNUCU (54, 5)
R016	Saturated zone (cm**3/g)	7.000E+01	7.000E+01	---	DCNUCS (54)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	2.455E-05	ALEACH (54)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (54)
R016	Distribution coefficients for Ra-228				
R016	Contaminated zone (cm**3/g)	7.000E+01	7.000E+01	---	DCNUCC (55)
R016	Unsaturated zone 1 (cm**3/g)	7.000E+01	7.000E+01	---	DCNUCU (55, 1)
R016	Unsaturated zone 2 (cm**3/g)	7.000E+01	7.000E+01	---	DCNUCU (55, 2)
R016	Unsaturated zone 3 (cm**3/g)	7.000E+01	7.000E+01	---	DCNUCU (55, 3)
R016	Unsaturated zone 4 (cm**3/g)	7.000E+01	7.000E+01	---	DCNUCU (55, 4)
R016	Unsaturated zone 5 (cm**3/g)	7.000E+01	7.000E+01	---	DCNUCU (55, 5)
R016	Saturated zone (cm**3/g)	7.000E+01	7.000E+01	---	DCNUCS (55)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	2.455E-05	ALEACH (55)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (55)

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R016	Distribution coefficients for Ru-106				
R016	Contaminated zone (cm**3/g)	5.500E+01	0.000E+00	---	DCNUCC (56)
R016	Unsaturated zone 1 (cm**3/g)	8.000E+02	0.000E+00	---	DCNUCU (56,1)
R016	Unsaturated zone 2 (cm**3/g)	5.500E+01	0.000E+00	---	DCNUCU (56,2)
R016	Unsaturated zone 3 (cm**3/g)	5.500E+01	0.000E+00	---	DCNUCU (56,3)
R016	Unsaturated zone 4 (cm**3/g)	5.500E+01	0.000E+00	---	DCNUCU (56,4)
R016	Unsaturated zone 5 (cm**3/g)	5.500E+01	0.000E+00	---	DCNUCU (56,5)
R016	Saturated zone (cm**3/g)	5.500E+01	0.000E+00	---	DCNUCS (56)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	3.122E-05	ALEACH (56)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (56)
R016	Distribution coefficients for Sb-125				
R016	Contaminated zone (cm**3/g)	4.500E+01	0.000E+00	---	DCNUCC (57)
R016	Unsaturated zone 1 (cm**3/g)	2.500E+02	0.000E+00	---	DCNUCU (57,1)
R016	Unsaturated zone 2 (cm**3/g)	4.500E+01	0.000E+00	---	DCNUCU (57,2)
R016	Unsaturated zone 3 (cm**3/g)	4.500E+01	0.000E+00	---	DCNUCU (57,3)
R016	Unsaturated zone 4 (cm**3/g)	4.500E+01	0.000E+00	---	DCNUCU (57,4)
R016	Unsaturated zone 5 (cm**3/g)	4.500E+01	0.000E+00	---	DCNUCU (57,5)
R016	Saturated zone (cm**3/g)	4.500E+01	0.000E+00	---	DCNUCS (57)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	3.813E-05	ALEACH (57)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (57)
R016	Distribution coefficients for Sm-147				
R016	Contaminated zone (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCC (58)
R016	Unsaturated zone 1 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (58,1)
R016	Unsaturated zone 2 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (58,2)
R016	Unsaturated zone 3 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (58,3)
R016	Unsaturated zone 4 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (58,4)
R016	Unsaturated zone 5 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (58,5)
R016	Saturated zone (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCS (58)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	2.087E-06	ALEACH (58)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (58)
R016	Distribution coefficients for Sm-151				
R016	Contaminated zone (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCC (59)
R016	Unsaturated zone 1 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (59,1)
R016	Unsaturated zone 2 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (59,2)
R016	Unsaturated zone 3 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (59,3)
R016	Unsaturated zone 4 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (59,4)
R016	Unsaturated zone 5 (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCU (59,5)
R016	Saturated zone (cm**3/g)	-1.000E+00	-1.000E+00	8.249E+02	DCNUCS (59)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	2.087E-06	ALEACH (59)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (59)

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)	1.500E+01	3.000E+01	---	DCNUCC (60)
R016	Unsaturated zone 1 (cm**3/g)	1.100E+02	3.000E+01	---	DCNUCU (60,1)
R016	Unsaturated zone 2 (cm**3/g)	1.500E+01	3.000E+01	---	DCNUCU (60,2)
R016	Unsaturated zone 3 (cm**3/g)	1.500E+01	3.000E+01	---	DCNUCU (60,3)
R016	Unsaturated zone 4 (cm**3/g)	1.500E+01	3.000E+01	---	DCNUCU (60,4)
R016	Unsaturated zone 5 (cm**3/g)	1.500E+01	3.000E+01	---	DCNUCU (60,5)
R016	Saturated zone (cm**3/g)	1.500E+01	3.000E+01	---	DCNUCS (60)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.136E-04	ALEACH (60)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (60)
R016	Distribution coefficients for Tc-99				
R016	Contaminated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCC (61)
R016	Unsaturated zone 1 (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCU (61,1)
R016	Unsaturated zone 2 (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCU (61,2)
R016	Unsaturated zone 3 (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCU (61,3)
R016	Unsaturated zone 4 (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCU (61,4)
R016	Unsaturated zone 5 (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCU (61,5)
R016	Saturated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCS (61)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.053E-02	ALEACH (61)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (61)
R016	Distribution coefficients for Th-228				
R016	Contaminated zone (cm**3/g)	3.200E+03	6.000E+04	---	DCNUCC (62)
R016	Unsaturated zone 1 (cm**3/g)	5.800E+03	6.000E+04	---	DCNUCU (62,1)
R016	Unsaturated zone 2 (cm**3/g)	3.200E+03	6.000E+04	---	DCNUCU (62,2)
R016	Unsaturated zone 3 (cm**3/g)	3.200E+03	6.000E+04	---	DCNUCU (62,3)
R016	Unsaturated zone 4 (cm**3/g)	3.200E+03	6.000E+04	---	DCNUCU (62,4)
R016	Unsaturated zone 5 (cm**3/g)	3.200E+03	6.000E+04	---	DCNUCU (62,5)
R016	Saturated zone (cm**3/g)	3.200E+03	6.000E+04	---	DCNUCS (62)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	5.382E-07	ALEACH (62)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (62)
R016	Distribution coefficients for Th-229				
R016	Contaminated zone (cm**3/g)	3.200E+03	6.000E+04	---	DCNUCC (63)
R016	Unsaturated zone 1 (cm**3/g)	5.800E+03	6.000E+04	---	DCNUCU (63,1)
R016	Unsaturated zone 2 (cm**3/g)	3.200E+03	6.000E+04	---	DCNUCU (63,2)
R016	Unsaturated zone 3 (cm**3/g)	3.200E+03	6.000E+04	---	DCNUCU (63,3)
R016	Unsaturated zone 4 (cm**3/g)	3.200E+03	6.000E+04	---	DCNUCU (63,4)
R016	Unsaturated zone 5 (cm**3/g)	3.200E+03	6.000E+04	---	DCNUCU (63,5)
R016	Saturated zone (cm**3/g)	3.200E+03	6.000E+04	---	DCNUCS (63)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	5.382E-07	ALEACH (63)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (63)

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R016	Distribution coefficients for Th-230				
R016	Contaminated zone (cm**3/g)	3.200E+03	6.000E+04	---	DCNUCC (64)
R016	Unsaturated zone 1 (cm**3/g)	5.800E+03	6.000E+04	---	DCNUCU (64, 1)
R016	Unsaturated zone 2 (cm**3/g)	3.200E+03	6.000E+04	---	DCNUCU (64, 2)
R016	Unsaturated zone 3 (cm**3/g)	3.200E+03	6.000E+04	---	DCNUCU (64, 3)
R016	Unsaturated zone 4 (cm**3/g)	3.200E+03	6.000E+04	---	DCNUCU (64, 4)
R016	Unsaturated zone 5 (cm**3/g)	3.200E+03	6.000E+04	---	DCNUCU (64, 5)
R016	Saturated zone (cm**3/g)	3.200E+03	6.000E+04	---	DCNUCS (64)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	5.382E-07	ALEACH (64)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (64)
R016	Distribution coefficients for Th-232				
R016	Contaminated zone (cm**3/g)	3.200E+03	6.000E+04	---	DCNUCC (65)
R016	Unsaturated zone 1 (cm**3/g)	5.800E+03	6.000E+04	---	DCNUCU (65, 1)
R016	Unsaturated zone 2 (cm**3/g)	3.200E+03	6.000E+04	---	DCNUCU (65, 2)
R016	Unsaturated zone 3 (cm**3/g)	3.200E+03	6.000E+04	---	DCNUCU (65, 3)
R016	Unsaturated zone 4 (cm**3/g)	3.200E+03	6.000E+04	---	DCNUCU (65, 4)
R016	Unsaturated zone 5 (cm**3/g)	3.200E+03	6.000E+04	---	DCNUCU (65, 5)
R016	Saturated zone (cm**3/g)	3.200E+03	6.000E+04	---	DCNUCS (65)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	5.382E-07	ALEACH (65)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (65)
R016	Distribution coefficients for Tl-204				
R016	Contaminated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCC (66)
R016	Unsaturated zone 1 (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCU (66, 1)
R016	Unsaturated zone 2 (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCU (66, 2)
R016	Unsaturated zone 3 (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCU (66, 3)
R016	Unsaturated zone 4 (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCU (66, 4)
R016	Unsaturated zone 5 (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCU (66, 5)
R016	Saturated zone (cm**3/g)	0.000E+00	0.000E+00	---	DCNUCS (66)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.053E-02	ALEACH (66)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (66)
R016	Distribution coefficients for U-233				
R016	Contaminated zone (cm**3/g)	3.500E+01	5.000E+01	---	DCNUCC (67)
R016	Unsaturated zone 1 (cm**3/g)	1.600E+03	5.000E+01	---	DCNUCU (67, 1)
R016	Unsaturated zone 2 (cm**3/g)	3.500E+01	5.000E+01	---	DCNUCU (67, 2)
R016	Unsaturated zone 3 (cm**3/g)	3.500E+01	5.000E+01	---	DCNUCU (67, 3)
R016	Unsaturated zone 4 (cm**3/g)	3.500E+01	5.000E+01	---	DCNUCU (67, 4)
R016	Unsaturated zone 5 (cm**3/g)	3.500E+01	5.000E+01	---	DCNUCU (67, 5)
R016	Saturated zone (cm**3/g)	3.500E+01	5.000E+01	---	DCNUCS (67)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	4.898E-05	ALEACH (67)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (67)

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R016	Distribution coefficients for U-234				
R016	Contaminated zone (cm**3/g)	3.500E+01	5.000E+01	---	DCNUCC (68)
R016	Unsaturated zone 1 (cm**3/g)	1.600E+03	5.000E+01	---	DCNUCU (68,1)
R016	Unsaturated zone 2 (cm**3/g)	3.500E+01	5.000E+01	---	DCNUCU (68,2)
R016	Unsaturated zone 3 (cm**3/g)	3.500E+01	5.000E+01	---	DCNUCU (68,3)
R016	Unsaturated zone 4 (cm**3/g)	3.500E+01	5.000E+01	---	DCNUCU (68,4)
R016	Unsaturated zone 5 (cm**3/g)	3.500E+01	5.000E+01	---	DCNUCU (68,5)
R016	Saturated zone (cm**3/g)	3.500E+01	5.000E+01	---	DCNUCS (68)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	4.898E-05	ALEACH (68)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (68)
R016	Distribution coefficients for U-235				
R016	Contaminated zone (cm**3/g)	3.500E+01	5.000E+01	---	DCNUCC (69)
R016	Unsaturated zone 1 (cm**3/g)	1.600E+03	5.000E+01	---	DCNUCU (69,1)
R016	Unsaturated zone 2 (cm**3/g)	3.500E+01	5.000E+01	---	DCNUCU (69,2)
R016	Unsaturated zone 3 (cm**3/g)	3.500E+01	5.000E+01	---	DCNUCU (69,3)
R016	Unsaturated zone 4 (cm**3/g)	3.500E+01	5.000E+01	---	DCNUCU (69,4)
R016	Unsaturated zone 5 (cm**3/g)	3.500E+01	5.000E+01	---	DCNUCU (69,5)
R016	Saturated zone (cm**3/g)	3.500E+01	5.000E+01	---	DCNUCS (69)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	4.898E-05	ALEACH (69)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (69)
R016	Distribution coefficients for U-236				
R016	Contaminated zone (cm**3/g)	3.500E+01	5.000E+01	---	DCNUCC (70)
R016	Unsaturated zone 1 (cm**3/g)	1.600E+03	5.000E+01	---	DCNUCU (70,1)
R016	Unsaturated zone 2 (cm**3/g)	3.500E+01	5.000E+01	---	DCNUCU (70,2)
R016	Unsaturated zone 3 (cm**3/g)	3.500E+01	5.000E+01	---	DCNUCU (70,3)
R016	Unsaturated zone 4 (cm**3/g)	3.500E+01	5.000E+01	---	DCNUCU (70,4)
R016	Unsaturated zone 5 (cm**3/g)	3.500E+01	5.000E+01	---	DCNUCU (70,5)
R016	Saturated zone (cm**3/g)	3.500E+01	5.000E+01	---	DCNUCS (70)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	4.898E-05	ALEACH (70)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (70)
R016	Distribution coefficients for U-238				
R016	Contaminated zone (cm**3/g)	3.500E+01	5.000E+01	---	DCNUCC (71)
R016	Unsaturated zone 1 (cm**3/g)	1.600E+03	5.000E+01	---	DCNUCU (71,1)
R016	Unsaturated zone 2 (cm**3/g)	3.500E+01	5.000E+01	---	DCNUCU (71,2)
R016	Unsaturated zone 3 (cm**3/g)	3.500E+01	5.000E+01	---	DCNUCU (71,3)
R016	Unsaturated zone 4 (cm**3/g)	3.500E+01	5.000E+01	---	DCNUCU (71,4)
R016	Unsaturated zone 5 (cm**3/g)	3.500E+01	5.000E+01	---	DCNUCU (71,5)
R016	Saturated zone (cm**3/g)	3.500E+01	5.000E+01	---	DCNUCS (71)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	4.898E-05	ALEACH (71)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK (71)

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R016	Distribution coefficients for Zn-65				
R016	Contaminated zone (cm**3/g)	2.000E+02	0.000E+00	---	DCNUCC(72)
R016	Unsaturated zone 1 (cm**3/g)	2.400E+03	0.000E+00	---	DCNUCU(72,1)
R016	Unsaturated zone 2 (cm**3/g)	2.000E+02	0.000E+00	---	DCNUCU(72,2)
R016	Unsaturated zone 3 (cm**3/g)	2.000E+02	0.000E+00	---	DCNUCU(72,3)
R016	Unsaturated zone 4 (cm**3/g)	2.000E+02	0.000E+00	---	DCNUCU(72,4)
R016	Unsaturated zone 5 (cm**3/g)	2.000E+02	0.000E+00	---	DCNUCU(72,5)
R016	Saturated zone (cm**3/g)	2.000E+02	0.000E+00	---	DCNUCS(72)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	8.604E-06	ALEACH(72)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(72)
R016	Distribution coefficients for daughter Cm-248				
R016	Contaminated zone (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCC(20)
R016	Unsaturated zone 1 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU(20,1)
R016	Unsaturated zone 2 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU(20,2)
R016	Unsaturated zone 3 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU(20,3)
R016	Unsaturated zone 4 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU(20,4)
R016	Unsaturated zone 5 (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCU(20,5)
R016	Saturated zone (cm**3/g)	-1.000E+00	-1.000E+00	1.378E+03	DCNUCS(20)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.250E-06	ALEACH(20)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(20)
R017	Inhalation rate (m**3/yr)	8.400E+03	8.400E+03	---	INHALR
R017	Mass loading for inhalation (g/m**3)	1.000E-04	1.000E-04	---	MLINH
R017	Exposure duration	3.000E+01	3.000E+01	---	ED
R017	Shielding factor, inhalation	4.000E-01	4.000E-01	---	SHF3
R017	Shielding factor, external gamma	7.000E-01	7.000E-01	---	SHF1
R017	Fraction of time spent indoors	5.000E-01	5.000E-01	---	FIND
R017	Fraction of time spent outdoors (on site)	2.500E-01	2.500E-01	---	FOTD
R017	Shape factor flag, external gamma	1.000E+00	1.000E+00	>0 shows circular AREA.	FS
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)

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
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)	1.600E+02	1.600E+02	---	DIET(1)
R018	Leafy vegetable consumption (kg/yr)	1.400E+01	1.400E+01	---	DIET(2)
R018	Milk consumption (L/yr)	9.200E+01	9.200E+01	---	DIET(3)
R018	Meat and poultry consumption (kg/yr)	6.300E+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)	3.650E+01	3.650E+01	---	SOIL
R018	Drinking water intake (L/yr)	5.100E+02	5.100E+02	---	DWI
R018	Contamination fraction of drinking water	1.000E+00	1.000E+00	---	FDW
R018	Contamination fraction of household water	1.000E+00	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	-1	0.500E+00	FPLANT
R018	Contamination fraction of meat	-1	-1	0.100E+01	FMEAT
R018	Contamination fraction of milk	-1	-1	0.100E+01	FMILK
R019	Livestock fodder intake for meat (kg/day)	6.800E+01	6.800E+01	---	LFI5
R019	Livestock fodder intake for milk (kg/day)	5.500E+01	5.500E+01	---	LFI6
R019	Livestock water intake for meat (L/day)	5.000E+01	5.000E+01	---	LWI5
R019	Livestock water intake for milk (L/day)	1.600E+02	1.600E+02	---	LWI6
R019	Livestock soil intake (kg/day)	5.000E-01	5.000E-01	---	LSI
R019	Mass loading for foliar deposition (g/m**3)	1.000E-04	1.000E-04	---	MLFD
R019	Depth of soil mixing layer (m)	1.500E-01	1.500E-01	---	DM
R019	Depth of roots (m)	9.000E-01	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	1.000E+00	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)	7.000E-01	7.000E-01	---	YV(1)
R19B	Wet weight crop yield for Leafy (kg/m**2)	1.500E+00	1.500E+00	---	YV(2)
R19B	Wet weight crop yield for Fodder (kg/m**2)	1.100E+00	1.100E+00	---	YV(3)
R19B	Growing Season for Non-Leafy (years)	1.700E-01	1.700E-01	---	TE(1)
R19B	Growing Season for Leafy (years)	2.500E-01	2.500E-01	---	TE(2)
R19B	Growing Season for Fodder (years)	8.000E-02	8.000E-02	---	TE(3)
R19B	Translocation Factor for Non-Leafy	1.000E-01	1.000E-01	---	TIV(1)

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
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	2.500E-01	2.500E-01	---	RDRY(1)
R19B	Dry Foliar Interception Fraction for Leafy	2.500E-01	2.500E-01	---	RDRY(2)
R19B	Dry Foliar Interception Fraction for Fodder	2.500E-01	2.500E-01	---	RDRY(3)
R19B	Wet Foliar Interception Fraction for Non-Leafy	2.500E-01	2.500E-01	---	RWET(1)
R19B	Wet Foliar Interception Fraction for Leafy	2.500E-01	2.500E-01	---	RWET(2)
R19B	Wet Foliar Interception Fraction for Fodder	2.500E-01	2.500E-01	---	RWET(3)
R19B	Weathering Removal Constant for Vegetation	2.000E+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)	3.000E-01	3.000E-01	---	DMC
C14	C-14 evasion flux rate from soil (l/sec)	7.000E-07	7.000E-07	---	EVSN
C14	C-12 evasion flux rate from soil (l/sec)	1.000E-10	1.000E-10	---	REVSN
C14	Fraction of grain in beef cattle feed	8.000E-01	8.000E-01	---	AVFG4
C14	Fraction of grain in milk cow feed	2.000E-01	2.000E-01	---	AVFG5
C14	DCF correction factor for gaseous forms of C14	1.234E+02	8.894E+01	---	CO2F
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	2.000E+01	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)	1.500E-01	1.500E-01	---	FLOOR1
R021	Bulk density of building foundation (g/cm**3)	2.400E+00	2.400E+00	---	DENSFL
R021	Total porosity of the cover material	4.130E-01	4.000E-01	---	TPCV
R021	Total porosity of the building foundation	1.000E-01	1.000E-01	---	TPFL
R021	Volumetric water content of the cover material	2.650E-02	5.000E-02	---	PH2OCV
R021	Volumetric water content of the foundation	3.000E-02	3.000E-02	---	PH2OFL
R021	Diffusion coefficient for radon gas (m/sec):				
R021	in cover material	7.233E-07	2.000E-06	---	DIFCV
R021	in foundation material	3.000E-07	3.000E-07	---	DIFFL
R021	in contaminated zone soil	3.000E-07	2.000E-06	---	DIFCZ
R021	Radon vertical dimension of mixing (m)	2.000E+00	2.000E+00	---	HMIX
R021	Average building air exchange rate (1/hr)	1.500E+00	5.000E-01	---	REXG
R021	Height of the building (room) (m)	2.500E+00	2.500E+00	---	HRM
R021	Building interior area factor	1.000E+00	0.000E+00	---	FAI
R021	Building depth below ground surface (m)	0.000E+00	-1.000E+00	---	DMFL
R021	Emanating power of Rn-222 gas	2.500E-01	2.500E-01	---	EMANA(1)
R021	Emanating power of Rn-220 gas	1.500E-01	1.500E-01	---	EMANA(2)
TITL	Number of graphical time points	512	---	---	NPTS
TITL	Maximum number of integration points for dose	17	---	---	LYMAX

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
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	active
Find peak pathway doses	active

Contaminated Zone Dimensions

Area: 88221.00 square meters
Thickness: 33.60 meters
Cover Depth: 3.60 meters

Initial Soil Concentrations, pCi/g

Ac-227	3.200E+00
Ag-108m	2.500E+01
Ag-110m	2.500E+01
Am-241	1.000E-01
Am-243	1.000E-01
Au-195	1.000E+02
Ba-133	2.500E+01
C-14	1.000E+01
Ca-41	2.500E+01
Cd-109	2.500E+01
Ce-144	2.500E+01
Cf-252	1.000E-01
Cm-243	1.000E-01
Cm-244	1.000E-01
Cm-245	1.000E-01
Cm-246	1.000E-01
Cm-247	1.000E-01
Co-57	2.500E+01
Co-60	2.500E+01
Cs-134	2.500E+01
Cs-135	2.500E+01
Cs-137	2.500E+01
Eu-152	2.500E+01
Eu-154	2.500E+01
Eu-155	2.500E+01
Fe-55	2.500E+01
Gd-152	2.500E+01
Gd-153	2.500E+01
Ge-68	2.500E+01
H-3	1.000E+03
I-129	1.000E-02
K-40	8.000E+02
Mn-54	2.500E+01
Na-22	2.500E+01
Nb-93m	2.500E+01
Nb-94	2.500E+01
Ni-59	2.500E+01
Ni-63	2.500E+01
Np-237	1.000E-01
Pa-231	3.200E+00
Pb-210	3.330E+02
Pm-147	2.500E+01
Pu-238	1.000E-01
Pu-239	1.000E-01
Pu-240	1.000E-01
Pu-241	1.000E-01
Pu-242	1.000E-01
Pu-244	1.000E-01
Ra-226	1.120E+02
Ra-228	2.800E+01
Ru-106	2.500E+01
Sb-125	2.500E+01
Sm-147	2.500E+01
Sm-151	2.500E+01

Sr-90	2.500E+01
Tc-99	1.000E+00
Th-228	2.800E+01
Th-229	2.800E+01
Th-230	8.300E+01
Th-232	2.800E+01
Tl-204	2.500E+01
U-233	3.300E+00
U-234	8.300E+01
U-235	3.200E+00
U-236	3.200E+00
U-238	8.300E+01
Zn-65	2.500E+01

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	3.000E+01	1.000E+02	3.000E+02	1.000E+03	5.000E+03
TDOSE(t):	2.172E+00	2.172E+00	2.172E+00	2.173E+00	2.174E+00	2.180E+00	1.007E+01	7.617E+00	7.087E+00
M(t):	8.689E-02	8.689E-02	8.690E-02	8.692E-02	8.698E-02	8.720E-02	4.029E-01	3.047E-01	2.835E-01

Maximum TDOSE(t): 1.072E+01 mrem/yr at t = 287.3 ± 0.6 years

Summary : EGL Vadose Zone Analysis

File: USEI_EGL_FINAL_03_25_05.RAD

Pu-242	0.000E+00	0.0000	0.000E+00	0.0000	9.662E-19	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Pu-244	9.077E-27	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
Ra-226	7.457E-21	0.0000	0.000E+00	0.0000	2.000E+00	0.1864	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Ra-228	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
Ru-106	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
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
Sm-147	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
Sm-151	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	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	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
Th-228	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
Th-229	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
Th-230	7.353E-22	0.0000	0.000E+00	0.0000	1.972E-01	0.0184	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-232	3.134E-19	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
Tl-204	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
U-233	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
U-234	9.690E-25	0.0000	0.000E+00	0.0000	2.599E-04	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-235	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
U-236	4.856E-28	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
U-238	2.732E-25	0.0000	0.000E+00	0.0000	7.129E-08	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Zn-65	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	5.691E-19	0.0000	0.000E+00	0.0000	2.197E+00	0.2049	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

Summary : EGL Vadose Zone Analysis

File: USEI_EGL_FINAL_03_25_05.RAD

Pu-242	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	9.662E-19	0.0000
Pu-244	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	9.077E-27	0.0000
Ra-226	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	2.000E+00	0.1864
Ra-228	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
Ru-106	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
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
Sm-147	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
Sm-151	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	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Tc-99	1.988E+00	0.1854	0.000E+00	0.0000	0.000E+00	0.0000	3.522E-01	0.0328	4.710E-03	0.0004	9.848E-02	0.0092	2.444E+00	0.2278
Th-228	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
Th-229	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
Th-230	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	1.972E-01	0.0184
Th-232	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	3.134E-19	0.0000
Tl-204	1.364E-21	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.104E-22	0.0000	5.875E-22	0.0000	1.923E-22	0.0000	2.254E-21	0.0000
U-233	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
U-234	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	2.599E-04	0.0000
U-235	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
U-236	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	4.856E-28	0.0000
U-238	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	7.129E-08	0.0000
Zn-65	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	5.577E+00	0.5200	0.000E+00	0.0000	0.000E+00	0.0000	6.295E-01	0.0587	5.421E-01	0.0505	1.780E+00	0.1659	1.072E+01	1.0000

*Sum of all water independent and dependent pathways.

Summary : EGL Vadose Zone Analysis

File: USEI_EGL_FINAL_03_25_05.RAD

Pu-242	0.000E+00	0.0000	0.000E+00	0.0000	2.772E-29	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Pu-244	5.647E-27	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
Ra-226	5.563E-21	0.0000	0.000E+00	0.0000	2.172E+00	0.9998	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Ra-228	3.307E-20	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
Ru-106	2.494E-26	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
Sb-125	2.355E-27	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
Sm-147	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
Sm-151	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	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	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
Th-228	1.792E-19	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
Th-229	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
Th-230	8.933E-25	0.0000	0.000E+00	0.0000	3.487E-04	0.0002	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-232	1.383E-21	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
Tl-204	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
U-233	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
U-234	0.000E+00	0.0000	0.000E+00	0.0000	1.046E-09	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-235	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
U-236	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
U-238	1.730E-25	0.0000	0.000E+00	0.0000	7.416E-16	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Zn-65	1.345E-22	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	4.280E-19	0.0000	0.000E+00	0.0000	2.172E+00	1.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

Summary : EGL Vadose Zone Analysis

File: USEI_EGL_FINAL_03_25_05.RAD

Pu-242	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	2.772E-29	0.0000
Pu-244	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	5.647E-27	0.0000
Ra-226	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	2.172E+00	0.9998
Ra-228	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	3.307E-20	0.0000
Ru-106	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	2.494E-26	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	2.355E-27	0.0000
Sm-147	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
Sm-151	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	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	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
Th-228	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	1.792E-19	0.0000
Th-229	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
Th-230	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	3.487E-04	0.0002
Th-232	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	1.383E-21	0.0000
Tl-204	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
U-233	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
U-234	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	1.046E-09	0.0000
U-235	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
U-236	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
U-238	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	7.416E-16	0.0000
Zn-65	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	1.345E-22	0.0000
Total	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	2.172E+00	1.0000

*Sum of all water independent and dependent pathways.

Summary : EGL Vadose Zone Analysis

File: USEI_EGL_FINAL_03_25_05.RAD

Pu-242	0.000E+00	0.0000	0.000E+00	0.0000	8.594E-28	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Pu-244	5.656E-27	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
Ra-226	5.569E-21	0.0000	0.000E+00	0.0000	2.171E+00	0.9995	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Ra-228	8.053E-20	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
Ru-106	1.256E-26	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
Sb-125	1.837E-27	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
Sm-147	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
Sm-151	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	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	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
Th-228	1.249E-19	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
Th-229	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
Th-230	2.683E-24	0.0000	0.000E+00	0.0000	1.046E-03	0.0005	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-232	8.490E-21	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
Tl-204	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
U-233	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
U-234	0.000E+00	0.0000	0.000E+00	0.0000	7.324E-09	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-235	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
U-236	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
U-238	1.733E-25	0.0000	0.000E+00	0.0000	1.112E-14	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Zn-65	4.771E-23	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	4.241E-19	0.0000	0.000E+00	0.0000	2.172E+00	1.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

Summary : EGL Vadose Zone Analysis File: USEI_EGL_FINAL_03_25_05.RAD

Pu-242	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	8.594E-28	0.0000
Pu-244	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	5.656E-27	0.0000
Ra-226	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	2.171E+00	0.9995
Ra-228	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	8.053E-20	0.0000
Ru-106	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	1.256E-26	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	1.837E-27	0.0000
Sm-147	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
Sm-151	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	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	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
Th-228	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	1.249E-19	0.0000
Th-229	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
Th-230	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	1.046E-03	0.0005
Th-232	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	8.490E-21	0.0000
Tl-204	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
U-233	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
U-234	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	7.324E-09	0.0000
U-235	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
U-236	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
U-238	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	1.112E-14	0.0000
Zn-65	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	4.771E-23	0.0000
Total	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	2.172E+00	1.0000

*Sum of all water independent and dependent pathways.

Summary : EGL Vadose Zone Analysis

File: USEI_EGL_FINAL_03_25_05.RAD

Pu-242	0.000E+00	0.0000	0.000E+00	0.0000	2.165E-26	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Pu-244	5.675E-27	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
Ra-226	5.580E-21	0.0000	0.000E+00	0.0000	2.170E+00	0.9989	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Ra-228	1.200E-19	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
Ru-106	3.186E-27	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
Sb-125	1.118E-27	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
Sm-147	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
Sm-151	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	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	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
Th-228	6.066E-20	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
Th-229	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
Th-230	6.275E-24	0.0000	0.000E+00	0.0000	2.440E-03	0.0011	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-232	3.383E-20	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
Tl-204	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
U-233	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
U-234	9.956E-29	0.0000	0.000E+00	0.0000	3.871E-08	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-235	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
U-236	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
U-238	1.738E-25	0.0000	0.000E+00	0.0000	1.298E-13	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Zn-65	6.002E-24	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	4.179E-19	0.0000	0.000E+00	0.0000	2.172E+00	1.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

Summary : EGL Vadose Zone Analysis

File: USEI_EGL_FINAL_03_25_05.RAD

Pu-242	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	2.165E-26	0.0000
Pu-244	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	5.675E-27	0.0000
Ra-226	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	2.170E+00	0.9989
Ra-228	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	1.200E-19	0.0000
Ru-106	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	3.186E-27	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	1.118E-27	0.0000
Sm-147	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
Sm-151	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	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	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
Th-228	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	6.066E-20	0.0000
Th-229	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
Th-230	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	2.440E-03	0.0011
Th-232	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	3.383E-20	0.0000
Tl-204	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
U-233	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
U-234	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	3.871E-08	0.0000
U-235	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
U-236	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
U-238	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	1.298E-13	0.0000
Zn-65	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	6.002E-24	0.0000
Total	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	2.172E+00	1.0000

*Sum of all water independent and dependent pathways.

Summary : EGL Vadose Zone Analysis

File: USEI_EGL_FINAL_03_25_05.RAD

Pu-242	0.000E+00	0.0000	0.000E+00	0.0000	1.693E-24	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Pu-244	5.741E-27	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
Ra-226	5.620E-21	0.0000	0.000E+00	0.0000	2.166E+00	0.9966	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Ra-228	8.426E-20	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
Ru-106	2.619E-29	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
Sb-125	1.963E-28	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
Sm-147	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
Sm-151	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	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	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
Th-228	4.847E-21	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
Th-229	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
Th-230	1.899E-23	0.0000	0.000E+00	0.0000	7.318E-03	0.0034	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-232	1.273E-19	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
Tl-204	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
U-233	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
U-234	8.988E-28	0.0000	0.000E+00	0.0000	3.463E-07	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-235	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
U-236	3.565E-30	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
U-238	1.758E-25	0.0000	0.000E+00	0.0000	3.443E-12	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Zn-65	4.240E-27	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	4.070E-19	0.0000	0.000E+00	0.0000	2.173E+00	1.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

Summary : EGL Vadose Zone Analysis

File: USEI_EGL_FINAL_03_25_05.RAD

Pu-242	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	1.693E-24	0.0000
Pu-244	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	5.741E-27	0.0000
Ra-226	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	2.166E+00	0.9966
Ra-228	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	8.426E-20	0.0000
Ru-106	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	2.619E-29	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	1.963E-28	0.0000
Sm-147	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
Sm-151	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	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	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
Th-228	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	4.847E-21	0.0000
Th-229	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
Th-230	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	7.318E-03	0.0034
Th-232	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	1.273E-19	0.0000
Tl-204	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
U-233	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
U-234	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	3.463E-07	0.0000
U-235	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
U-236	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	3.565E-30	0.0000
U-238	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	3.443E-12	0.0000
Zn-65	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	4.240E-27	0.0000
Total	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	2.173E+00	1.0000

*Sum of all water independent and dependent pathways.

Summary : EGL Vadose Zone Analysis File: USEI_EGL_FINAL_03_25_05.RAD

Pu-242	0.000E+00	0.0000	0.000E+00	0.0000	1.202E-22	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Pu-244	5.933E-27	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
Ra-226	5.736E-21	0.0000	0.000E+00	0.0000	2.153E+00	0.9902	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Ra-228	8.426E-21	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
Ru-106	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
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
Sm-147	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
Sm-151	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	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	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
Th-228	3.549E-24	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
Th-229	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
Th-230	5.655E-23	0.0000	0.000E+00	0.0000	2.123E-02	0.0098	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-232	2.139E-19	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
Tl-204	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
U-233	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
U-234	7.779E-27	0.0000	0.000E+00	0.0000	2.920E-06	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-235	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
U-236	2.475E-29	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
U-238	1.814E-25	0.0000	0.000E+00	0.0000	8.425E-11	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Zn-65	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	4.082E-19	0.0000	0.000E+00	0.0000	2.174E+00	1.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

Summary : EGL Vadose Zone Analysis File: USEI_EGL_FINAL_03_25_05.RAD

Pu-242	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	1.202E-22	0.0000
Pu-244	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	5.933E-27	0.0000
Ra-226	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	2.153E+00	0.9902
Ra-228	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	8.426E-21	0.0000
Ru-106	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
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
Sm-147	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
Sm-151	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	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	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
Th-228	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	3.549E-24	0.0000
Th-229	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
Th-230	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	2.123E-02	0.0098
Th-232	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	2.139E-19	0.0000
Tl-204	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
U-233	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
U-234	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	2.920E-06	0.0000
U-235	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
U-236	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	2.475E-29	0.0000
U-238	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	8.425E-11	0.0000
Zn-65	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	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	2.174E+00	1.0000

*Sum of all water independent and dependent pathways.

Summary : EGL Vadose Zone Analysis File: USEI_EGL_FINAL_03_25_05.RAD

Pu-242	0.000E+00	0.0000	0.000E+00	0.0000	1.422E-20	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Pu-244	6.661E-27	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
Ra-226	6.160E-21	0.0000	0.000E+00	0.0000	2.110E+00	0.9680	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Ra-228	2.000E-24	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
Ru-106	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
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
Sm-147	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
Sm-151	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	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	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
Th-228	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
Th-229	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
Th-230	2.033E-22	0.0000	0.000E+00	0.0000	6.965E-02	0.0319	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-232	2.441E-19	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
Tl-204	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
U-233	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
U-234	9.253E-26	0.0000	0.000E+00	0.0000	3.170E-05	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-235	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
U-236	1.228E-28	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
U-238	2.027E-25	0.0000	0.000E+00	0.0000	3.020E-09	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Zn-65	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	4.461E-19	0.0000	0.000E+00	0.0000	2.180E+00	1.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

Summary : EGL Vadose Zone Analysis File: USEI_EGL_FINAL_03_25_05.RAD

Pu-242	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	1.422E-20	0.0000
Pu-244	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	6.661E-27	0.0000
Ra-226	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	2.110E+00	0.9680
Ra-228	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	2.000E-24	0.0000
Ru-106	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
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
Sm-147	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
Sm-151	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	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	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
Th-228	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
Th-229	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
Th-230	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	6.965E-02	0.0319
Th-232	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	2.441E-19	0.0000
Tl-204	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
U-233	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
U-234	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	3.170E-05	0.0000
U-235	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
U-236	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	1.228E-28	0.0000
U-238	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	3.020E-09	0.0000
Zn-65	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	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	2.180E+00	1.0000

*Sum of all water independent and dependent pathways.

Summary : EGL Vadose Zone Analysis

File: USEI_EGL_FINAL_03_25_05.RAD

Pu-242	0.000E+00	0.0000	0.000E+00	0.0000	1.149E-18	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Pu-244	9.269E-27	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
Ra-226	7.554E-21	0.0000	0.000E+00	0.0000	1.992E+00	0.1978	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Ra-228	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
Ru-106	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
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
Sm-147	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
Sm-151	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	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	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
Th-228	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
Th-229	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
Th-230	7.801E-22	0.0000	0.000E+00	0.0000	2.057E-01	0.0204	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-232	3.187E-19	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
Tl-204	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
U-233	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
U-234	1.074E-24	0.0000	0.000E+00	0.0000	2.833E-04	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-235	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
U-236	5.164E-28	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
U-238	2.788E-25	0.0000	0.000E+00	0.0000	8.119E-08	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Zn-65	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	5.786E-19	0.0000	0.000E+00	0.0000	2.198E+00	0.2183	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

Summary : EGL Vadose Zone Analysis File: USEI_EGL_FINAL_03_25_05.RAD

Pu-242	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	1.149E-18	0.0000
Pu-244	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	9.269E-27	0.0000
Ra-226	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	1.992E+00	0.1978
Ra-228	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
Ru-106	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
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
Sm-147	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
Sm-151	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	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Tc-99	1.739E+00	0.1727	0.000E+00	0.0000	0.000E+00	0.0000	3.081E-01	0.0306	4.120E-03	0.0004	8.615E-02	0.0086	2.138E+00	0.2123
Th-228	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
Th-229	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
Th-230	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	2.057E-01	0.0204
Th-232	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	3.187E-19	0.0000
Tl-204	1.159E-22	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	9.375E-24	0.0000	4.991E-23	0.0000	1.633E-23	0.0000	1.915E-22	0.0000
U-233	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
U-234	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	2.833E-04	0.0000
U-235	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
U-236	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	5.164E-28	0.0000
U-238	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	8.119E-08	0.0000
Zn-65	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	5.121E+00	0.5084	0.000E+00	0.0000	0.000E+00	0.0000	5.695E-01	0.0565	5.115E-01	0.0508	1.671E+00	0.1660	1.007E+01	1.0000

*Sum of all water independent and dependent pathways.

Summary : EGL Vadose Zone Analysis File: USEI_EGL_FINAL_03_25_05.RAD

Pu-242	0.000E+00	0.0000	0.000E+00	0.0000	1.480E-16	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Pu-244	2.947E-26	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
Ra-226	1.542E-20	0.0000	0.000E+00	0.0000	1.638E+00	0.2150	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Ra-228	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
Ru-106	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
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
Sm-147	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
Sm-151	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	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	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
Th-228	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
Th-229	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
Th-230	6.251E-21	0.0000	0.000E+00	0.0000	6.639E-01	0.0872	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-232	8.111E-19	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
Tl-204	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
U-233	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
U-234	2.981E-23	0.0000	0.000E+00	0.0000	3.166E-03	0.0004	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-235	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
U-236	4.418E-27	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
U-238	8.746E-25	0.0000	0.000E+00	0.0000	3.082E-06	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Zn-65	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	1.439E-18	0.0000	0.000E+00	0.0000	2.305E+00	0.3026	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

Summary : EGL Vadose Zone Analysis

File: USEI_EGL_FINAL_03_25_05.RAD

Pu-242	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	1.480E-16	0.0000
Pu-244	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	2.947E-26	0.0000
Ra-226	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	1.638E+00	0.2150
Ra-228	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	0.000E+00	0.0000
Ru-106	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	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	0.000E+00	0.0000
Sm-147	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	0.000E+00	0.0000
Sm-151	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	0.000E+00	0.0000
Sr-90	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	0.000E+00	0.0000
Tc-99	1.103E-03	0.0001	0.000E+00	0.0000	0.000E+00	0.0000	1.955E-04	0.0000	2.614E-06	0.0000	5.465E-05	0.0000	1.356E-03	0.0002	1.356E-03	0.0002
Th-228	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	0.000E+00	0.0000
Th-229	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	0.000E+00	0.0000
Th-230	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	6.639E-01	0.0872
Th-232	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	8.111E-19	0.0000
Tl-204	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	0.000E+00	0.0000
U-233	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	0.000E+00	0.0000
U-234	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	3.166E-03	0.0004
U-235	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	0.000E+00	0.0000
U-236	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	4.418E-27	0.0000
U-238	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	3.082E-06	0.0000
Zn-65	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	0.000E+00	0.0000
Total	1.860E+00	0.2442	0.000E+00	0.0000	0.000E+00	0.0000	2.177E+00	0.2858	5.989E-01	0.0786	6.758E-01	0.0887	7.617E+00	1.0000		

*Sum of all water independent and dependent pathways.

Summary : EGL Vadose Zone Analysis

File: USEI_EGL_FINAL_03_25_05.RAD

Pu-242	7.184E-31	0.0000	0.000E+00	0.0000	1.215E-13	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Pu-244	2.186E-23	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
Ra-226	9.108E-19	0.0000	0.000E+00	0.0000	5.182E-01	0.0731	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Ra-228	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
Ru-106	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
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
Sm-147	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
Sm-151	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	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	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
Th-228	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
Th-229	1.272E-26	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
Th-230	5.484E-18	0.0000	0.000E+00	0.0000	3.120E+00	0.4402	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-232	1.688E-16	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
Tl-204	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
U-233	7.867E-28	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
U-234	1.533E-19	0.0000	0.000E+00	0.0000	8.721E-02	0.0123	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-235	3.341E-29	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
U-236	4.218E-24	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
U-238	1.295E-21	0.0000	0.000E+00	0.0000	4.622E-04	0.0001	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Zn-65	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	2.679E-16	0.0000	0.000E+00	0.0000	3.726E+00	0.5257	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

Summary : EGL Vadose Zone Analysis

File: USEI_EGL_FINAL_03_25_05.RAD

Pu-242	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	1.215E-13	0.0000
Pu-244	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	2.186E-23	0.0000
Ra-226	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	5.182E-01	0.0731
Ra-228	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
Ru-106	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
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
Sm-147	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
Sm-151	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	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Tc-99	5.894E-22	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	1.044E-22	0.0000	1.396E-24	0.0000	2.919E-23	0.0000	7.244E-22	0.0000
Th-228	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
Th-229	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	1.272E-26	0.0000
Th-230	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	3.120E+00	0.4402
Th-232	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	1.688E-16	0.0000
Tl-204	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
U-233	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	7.867E-28	0.0000
U-234	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	8.721E-02	0.0123
U-235	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	3.341E-29	0.0000
U-236	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	4.218E-24	0.0000
U-238	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	4.622E-04	0.0001
Zn-65	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	2.282E+00	0.3221	0.000E+00	0.0000	0.000E+00	0.0000	5.301E-01	0.0748	1.646E-01	0.0232	3.839E-01	0.0542	7.087E+00	1.0000

*Sum of all water independent and dependent pathways.

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

Parent (i)	Product (j)	Branch Fraction*	DSR(j,t) (mrem/yr)/(pCi/g)								
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03	5.000E+03
Ac-227	Ac-227	1.000E+00	3.016E-33	2.928E-33	2.759E-33	2.240E-33	1.235E-33	1.539E-34	4.005E-37	0.000E+00	0.000E+00
Ag-108m	Ag-108m	1.000E+00	5.429E-27	5.409E-27	5.368E-27	5.229E-27	4.851E-27	3.731E-27	1.762E-27	1.276E-28	3.899E-35
Ag-110m	Ag-110m	1.000E+00	3.692E-24	1.343E-24	1.776E-25	1.493E-28	2.443E-37	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Am-241	Am-241	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Am-241	Np-237	1.000E+00	5.828E-42	1.751E-41	4.096E-41	1.241E-40	3.705E-40	1.346E-39	5.355E-39	5.162E-38	4.000E-34
Am-241	U-233	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.237E-42
Am-241	Th-229	1.000E+00	0.000E+00	0.000E+00	0.000E+00	1.401E-45	2.102E-44	8.296E-43	3.047E-41	3.507E-39	4.724E-34
Am-241	ΣDSR(j)		5.828E-42	1.751E-41	4.096E-41	1.241E-40	3.706E-40	1.347E-39	5.385E-39	5.513E-38	8.723E-34
Am-243	Am-243	1.000E+00	6.027E-42	6.042E-42	6.072E-42	6.180E-42	6.499E-42	7.755E-42	1.284E-41	7.503E-41	1.803E-36
Am-243	Pu-239	1.000E+00	0.000E+00	0.000E+00	0.000E+00	1.401E-45	4.204E-45	1.401E-44	6.726E-44	1.141E-42	6.642E-38
Am-243	U-235	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.517E-41
Am-243	Pa-231	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.803E-45	4.176E-43	1.655E-37
Am-243	Ac-227	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.121E-44	2.140E-42	9.784E-37
Am-243	ΣDSR(j)		6.027E-42	6.042E-42	6.072E-42	6.181E-42	6.503E-42	7.769E-42	1.292E-41	7.873E-41	3.014E-36
Au-195	Au-195	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ba-133	Ba-133	1.000E+00	3.781E-32	3.552E-32	3.134E-32	2.023E-32	5.788E-33	7.255E-35	2.670E-40	0.000E+00	0.000E+00
C-14	C-14	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.101E-01	8.394E-02
Ca-41	Ca-41	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.009E-01
Cd-109	Cd-109	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ce-144	Ce-144	1.000E+00	8.130E-28	3.343E-28	5.650E-29	1.122E-31	2.138E-39	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Cf-252	Cf-252	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Cf-252	Cm-248	9.691E-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	0.000E+00
Cf-252	Pu-244	8.890E-01	1.347E-40	8.791E-40	4.006E-39	2.312E-38	9.196E-38	3.739E-37	1.597E-36	1.705E-35	6.338E-32
Cf-252	Pu-240	8.879E-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	0.000E+00
Cf-252	U-236	8.879E-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	0.000E+00
Cf-252	Th-232	8.879E-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	0.000E+00
Cf-252	Ra-228	8.879E-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	5.353E-43
Cf-252	Th-228	8.879E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.809E-45	1.189E-39
Cf-252	ΣDSR(j)		1.347E-40	8.791E-40	4.006E-39	2.312E-38	9.196E-38	3.739E-37	1.597E-36	1.705E-35	6.338E-32
Cm-243	Cm-243	9.976E-01	8.594E-39	8.408E-39	8.048E-39	6.903E-39	4.453E-39	9.600E-40	1.198E-41	0.000E+00	0.000E+00
Cm-243	Pu-239	9.976E-01	0.000E+00	0.000E+00	0.000E+00	1.401E-45	2.803E-45	5.605E-45	9.809E-45	4.764E-44	6.358E-40
Cm-243	U-235	9.976E-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	1.696E-42
Cm-243	Pa-231	9.976E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.401E-45	4.764E-44	4.317E-39
Cm-243	Ac-227	9.976E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.204E-45	2.522E-43	2.566E-38
Cm-243	ΣDSR(j)		8.594E-39	8.408E-39	8.048E-39	6.903E-39	4.453E-39	9.600E-40	1.199E-41	3.475E-43	3.062E-38

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

Parent (i)	Product (j)	Branch Fraction*	DSR(j,t) (mrem/yr) / (pCi/g)									
			t=	0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03	5.000E+03
Cm-243	Cm-243	2.400E-03	2.068E-41	2.023E-41	1.936E-41	1.661E-41	1.071E-41	2.309E-42	2.803E-44	0.000E+00	0.000E+00	
Cm-243	Am-243	2.400E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.678E-41	
Cm-243	Pu-239	2.400E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.110E-43	
Cm-243	U-235	2.400E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.401E-45	
Cm-243	Pa-231	2.400E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.499E-42	
Cm-243	Ac-227	2.400E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.865E-42	
Cm-243	ΣDSR(j)		2.068E-41	2.023E-41	1.936E-41	1.661E-41	1.071E-41	2.309E-42	2.803E-44	0.000E+00	2.775E-41	
Cm-244	Cm-244	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Cm-244	Pu-240	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Cm-244	U-236	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Cm-244	Th-232	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Cm-244	Ra-228	1.000E+00	0.000E+00	0.000E+00	0.000E+00	7.006E-45	3.335E-43	1.288E-41	2.458E-40	9.261E-39	1.047E-34	
Cm-244	Th-228	1.000E+00	0.000E+00	4.204E-45	1.794E-43	2.517E-41	1.768E-39	8.289E-38	1.591E-36	5.175E-35	2.330E-31	
Cm-244	ΣDSR(j)		0.000E+00	4.204E-45	1.794E-43	2.518E-41	1.768E-39	8.290E-38	1.592E-36	5.176E-35	2.331E-31	
Cm-245	Cm-245	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.401E-45	6.211E-41	
Cm-245	Pu-241	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.389E-44	
Cm-245	Am-241	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Cm-245	Np-237	1.000E+00	0.000E+00	0.000E+00	5.605E-45	1.569E-43	3.224E-42	7.515E-41	1.216E-39	4.894E-38	2.373E-33	
Cm-245	U-233	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.055E-42	
Cm-245	Th-229	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.682E-44	2.913E-42	1.384E-39	1.086E-33	
Cm-245	ΣDSR(j)		0.000E+00	0.000E+00	5.605E-45	1.569E-43	3.224E-42	7.516E-41	1.219E-39	5.033E-38	3.458E-33	
Cm-245	Cm-245	2.450E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.401E-45	
Cm-245	Pu-241	2.450E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Cm-245	Np-237	2.450E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.204E-45	2.803E-44	1.513E-43	2.392E-42	6.496E-38	
Cm-245	U-233	2.450E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Cm-245	Th-229	2.450E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.135E-43	3.672E-38	
Cm-245	ΣDSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.204E-45	2.803E-44	1.513E-43	2.506E-42	1.017E-37	
Cm-246	Cm-246	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Cm-246	Pu-242	9.997E-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	0.000E+00	
Cm-246	U-238	9.997E-01	9.949E-44	6.964E-43	3.690E-42	3.337E-41	2.903E-40	3.518E-39	4.304E-38	1.431E-36	1.917E-32	
Cm-246	U-234	9.997E-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	0.000E+00	
Cm-246	Th-230	9.997E-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	0.000E+00	
Cm-246	Ra-226	9.997E-01	8.509E-35	5.361E-33	2.865E-31	6.568E-29	1.351E-26	5.260E-24	1.270E-21	5.419E-19	2.145E-15	
Cm-246	Pb-210	9.997E-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	0.000E+00	
Cm-246	ΣDSR(j)		8.509E-35	5.361E-33	2.865E-31	6.568E-29	1.351E-26	5.260E-24	1.270E-21	5.419E-19	2.145E-15	
Cm-247	Cm-247	1.000E+00	4.796E-31	4.806E-31	4.824E-31	4.890E-31	5.084E-31	5.823E-31	8.581E-31	3.334E-30	7.784E-27	
Cm-247	Am-243	1.000E+00	0.000E+00	1.401E-45	2.803E-45	5.605E-45	1.822E-44	7.287E-44	3.671E-43	7.390E-42	1.080E-36	
Cm-247	Pu-239	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.401E-45	5.465E-44	1.731E-38	
Cm-247	U-235	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.602E-41	
Cm-247	Pa-231	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.809E-45	2.041E-38	
Cm-247	Ac-227	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.905E-44	1.199E-37	
Cm-247	ΣDSR(j)		4.796E-31	4.806E-31	4.824E-31	4.890E-31	5.084E-31	5.823E-31	8.581E-31	3.334E-30	7.784E-27	

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

Parent (i)	Product (j)	Branch Fraction*	DSR(j,t) (mrem/yr) / (pCi/g)								
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03	5.000E+03
Np-237	Np-237	1.000E+00	3.599E-35	3.607E-35	3.623E-35	3.679E-35	3.843E-35	4.477E-35	6.927E-35	3.192E-34	1.973E-30
Np-237	U-233	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.401E-45	4.204E-45	7.847E-44	6.894E-39
Np-237	Th-229	1.000E+00	2.157E-42	1.512E-41	8.022E-41	7.275E-40	6.380E-39	7.945E-38	1.051E-36	4.594E-35	2.922E-30
Np-237	ΣDSR(j)		3.599E-35	3.607E-35	3.623E-35	3.679E-35	3.844E-35	4.485E-35	7.033E-35	3.651E-34	4.895E-30
Pa-231	Pa-231	1.000E+00	5.569E-34	5.581E-34	5.603E-34	5.684E-34	5.921E-34	6.830E-34	1.027E-33	4.285E-33	1.502E-29
Pa-231	Ac-227	1.000E+00	4.828E-35	1.431E-34	3.250E-34	8.889E-34	2.026E-33	3.613E-33	5.686E-33	2.402E-32	9.041E-29
Pa-231	ΣDSR(j)		6.052E-34	7.011E-34	8.854E-34	1.457E-33	2.618E-33	4.296E-33	6.713E-33	2.830E-32	1.054E-28
Pb-210	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pm-147	Pm-147	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pm-147	Sm-147	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pm-147	ΣDSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pu-238	Pu-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pu-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pu-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pu-238	Ra-226	1.000E+00	8.921E-18	1.336E-16	1.553E-15	4.063E-14	9.570E-13	3.019E-11	5.925E-10	1.083E-08	3.640E-07
Pu-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pu-238	ΣDSR(j)		8.921E-18	1.336E-16	1.553E-15	4.063E-14	9.570E-13	3.019E-11	5.925E-10	1.083E-08	3.640E-07
Pu-239	Pu-239	1.000E+00	3.817E-42	3.826E-42	3.844E-42	3.907E-42	4.097E-42	4.837E-42	7.772E-42	4.087E-41	5.374E-37
Pu-239	U-235	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.401E-45	1.822E-44	1.444E-39
Pu-239	Pa-231	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	5.605E-45	7.287E-44	9.627E-43	4.421E-41	3.709E-36
Pu-239	Ac-227	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.408E-45	2.228E-43	4.336E-42	2.328E-40	2.205E-35
Pu-239	ΣDSR(j)		3.817E-42	3.826E-42	3.844E-42	3.907E-42	4.111E-42	5.133E-42	1.307E-41	3.179E-40	2.630E-35
Pu-240	Pu-240	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pu-240	U-236	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pu-240	Th-232	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pu-240	Ra-228	1.000E+00	8.408E-45	1.121E-43	1.253E-42	2.788E-41	4.597E-40	7.843E-39	1.059E-37	3.519E-36	3.815E-32
Pu-240	Th-228	1.000E+00	3.747E-42	1.074E-40	2.294E-39	1.060E-37	2.602E-36	5.116E-35	6.864E-34	1.967E-32	8.488E-29
Pu-240	ΣDSR(j)		3.755E-42	1.075E-40	2.295E-39	1.061E-37	2.602E-36	5.116E-35	6.865E-34	1.967E-32	8.492E-29
Pu-241	Pu-241	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pu-241	Am-241	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pu-241	Np-237	1.000E+00	2.803E-45	2.102E-44	1.093E-43	8.912E-43	5.911E-42	3.610E-41	1.685E-40	1.705E-39	1.333E-35
Pu-241	U-233	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.064E-44
Pu-241	Th-229	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.682E-44	8.380E-43	1.106E-40	1.561E-35
Pu-241	ΣDSR(j)		2.803E-45	2.102E-44	1.093E-43	8.912E-43	5.911E-42	3.612E-41	1.693E-40	1.816E-39	2.893E-35
Pu-241	Pu-241	2.450E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pu-241	Np-237	2.450E-05	0.000E+00	0.000E+00	1.401E-45	2.803E-45	4.204E-45	7.006E-45	1.121E-44	5.325E-44	3.254E-40
Pu-241	U-233	2.450E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pu-241	Th-229	2.450E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.006E-45	4.782E-40
Pu-241	ΣDSR(j)		0.000E+00	0.000E+00	1.401E-45	2.803E-45	4.204E-45	7.006E-45	1.121E-44	6.026E-44	8.036E-40

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

Parent (i)	Product (j)	Branch Fraction*	DSR(j, t) (mrem/yr) / (pCi/g)											
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03	5.000E+03			
Pu-242	Pu-242	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pu-242	U-238	1.000E+00	1.617E-37	4.858E-37	1.137E-36	3.450E-36	1.035E-35	3.817E-35	1.574E-34	1.617E-33	5.048E-30			
Pu-242	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pu-242	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pu-242	Ra-226	1.000E+00	2.772E-28	8.594E-27	2.165E-25	1.693E-23	1.202E-21	1.422E-19	1.149E-17	1.480E-15	1.215E-12			
Pu-242	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pu-242	ΣDSR(j)		2.772E-28	8.594E-27	2.165E-25	1.693E-23	1.202E-21	1.422E-19	1.149E-17	1.480E-15	1.215E-12			
Pu-244	Pu-244	1.000E+00	5.647E-26	5.656E-26	5.675E-26	5.741E-26	5.933E-26	6.661E-26	9.269E-26	2.947E-25	2.186E-22			
Pu-244	Pu-240	9.987E-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	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pu-244	U-236	9.987E-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	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pu-244	Th-232	9.987E-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	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pu-244	Ra-228	9.987E-01	0.000E+00	0.000E+00	0.000E+00	8.408E-45	4.204E-43	2.593E-41	1.098E-39	1.248E-37	7.145E-33			
Pu-244	Th-228	9.987E-01	0.000E+00	4.204E-45	1.836E-43	2.702E-41	2.200E-39	1.645E-37	7.051E-36	6.955E-34	1.589E-29			
Pu-244	ΣDSR(j)		5.647E-26	5.656E-26	5.675E-26	5.741E-26	5.933E-26	6.661E-26	9.269E-26	2.947E-25	2.186E-22			
Ra-226	Ra-226	1.000E+00	1.939E-02	1.939E-02	1.938E-02	1.934E-02	1.923E-02	1.884E-02	1.779E-02	1.463E-02	4.627E-03			
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	ΣDSR(j)		1.939E-02	1.939E-02	1.938E-02	1.934E-02	1.923E-02	1.884E-02	1.779E-02	1.463E-02	4.627E-03			
Ra-228	Ra-228	1.000E+00	1.015E-24	9.008E-25	7.100E-25	3.087E-25	2.856E-26	6.886E-30	3.172E-40	0.000E+00	0.000E+00			
Ra-228	Th-228	1.000E+00	1.180E-21	2.875E-21	4.284E-21	3.009E-21	3.009E-22	7.142E-26	3.141E-36	0.000E+00	0.000E+00			
Ra-228	ΣDSR(j)		1.181E-21	2.876E-21	4.285E-21	3.009E-21	3.009E-22	7.143E-26	3.141E-36	0.000E+00	0.000E+00			
Ru-106	Ru-106	1.000E+00	9.976E-28	5.024E-28	1.274E-28	1.047E-30	1.155E-36	0.000E+00	0.000E+00	0.000E+00	0.000E+00			
Sb-125	Sb-125	1.000E+00	9.422E-29	7.349E-29	4.471E-29	7.853E-30	5.455E-32	1.524E-39	0.000E+00	0.000E+00	0.000E+00			
Sm-147	Sm-147	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00			
Sm-151	Sm-151	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00			
Sr-90	Sr-90	1.000E+00	5.327E-36	5.212E-36	4.990E-36	4.284E-36	2.771E-36	6.033E-37	7.739E-39	1.401E-45	0.000E+00			
Tc-99	Tc-99	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.138E+00	1.356E-03	7.244E-22			
Th-228	Th-228	1.000E+00	6.398E-21	4.460E-21	2.167E-21	1.731E-22	1.267E-25	1.345E-36	0.000E+00	0.000E+00	0.000E+00			
Th-229	Th-229	1.000E+00	3.131E-32	3.137E-32	3.149E-32	3.192E-32	3.317E-32	3.793E-32	5.564E-32	2.128E-31	4.541E-28			
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00			
Th-230	Ra-226	1.000E+00	4.201E-06	1.260E-05	2.940E-05	8.817E-05	2.558E-04	8.391E-04	2.479E-03	7.999E-03	3.759E-02			
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.803E-45			
Th-230	ΣDSR(j)		4.201E-06	1.260E-05	2.940E-05	8.817E-05	2.558E-04	8.391E-04	2.479E-03	7.999E-03	3.759E-02			

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

Parent (i)	Product (j)	Branch Fraction*	DSR(j,t) (mrem/yr)/(pCi/g)																
			t=	0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03	5.000E+03							
Th-232	Th-232	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-232	Ra-228	1.000E+00	6.240E-26	1.779E-25	3.720E-25	7.852E-25	1.100E-24	1.259E-24	1.723E-24	5.155E-24	2.706E-24	2.706E-24	2.706E-24	2.706E-24	2.706E-24	2.706E-24	2.706E-24	2.706E-24	2.706E-24
Th-232	Th-228	1.000E+00	4.933E-23	3.030E-22	1.208E-21	4.547E-21	7.637E-21	8.715E-21	1.138E-20	2.896E-20	6.026E-18	6.026E-18	6.026E-18	6.026E-18	6.026E-18	6.026E-18	6.026E-18	6.026E-18	6.026E-18
Th-232	ΣDSR(j)		4.940E-23	3.032E-22	1.208E-21	4.548E-21	7.638E-21	8.716E-21	1.138E-20	2.897E-20	6.029E-18	6.029E-18	6.029E-18	6.029E-18	6.029E-18	6.029E-18	6.029E-18	6.029E-18	6.029E-18
Tl-204	Tl-204	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.660E-24	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-233	U-233	1.000E+00	1.551E-42	1.555E-42	1.562E-42	1.589E-42	1.668E-42	1.976E-42	3.206E-42	1.746E-41	2.801E-37	2.801E-37	2.801E-37	2.801E-37	2.801E-37	2.801E-37	2.801E-37	2.801E-37	2.801E-37
U-233	Th-229	1.000E+00	1.479E-36	4.445E-36	1.041E-35	3.166E-35	9.559E-35	3.607E-34	1.589E-33	2.053E-32	2.384E-28	2.384E-28	2.384E-28	2.384E-28	2.384E-28	2.384E-28	2.384E-28	2.384E-28	2.384E-28
U-233	ΣDSR(j)		1.479E-36	4.445E-36	1.041E-35	3.166E-35	9.559E-35	3.607E-34	1.589E-33	2.053E-32	2.384E-28	2.384E-28	2.384E-28	2.384E-28	2.384E-28	2.384E-28	2.384E-28	2.384E-28	2.384E-28
U-234	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-234	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-234	Ra-226	1.000E+00	1.261E-11	8.824E-11	4.664E-10	4.173E-09	3.518E-08	3.819E-07	3.413E-06	3.815E-05	1.051E-03	1.051E-03	1.051E-03	1.051E-03	1.051E-03	1.051E-03	1.051E-03	1.051E-03	1.051E-03
U-234	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-234	ΣDSR(j)		1.261E-11	8.824E-11	4.664E-10	4.173E-09	3.518E-08	3.819E-07	3.413E-06	3.815E-05	1.051E-03	1.051E-03	1.051E-03	1.051E-03	1.051E-03	1.051E-03	1.051E-03	1.051E-03	1.051E-03
U-235	U-235	1.000E+00	1.663E-39	1.667E-39	1.675E-39	1.704E-39	1.788E-39	2.116E-39	3.425E-39	1.847E-38	2.809E-34	2.809E-34	2.809E-34	2.809E-34	2.809E-34	2.809E-34	2.809E-34	2.809E-34	2.809E-34
U-235	Pa-231	1.000E+00	5.894E-39	1.771E-38	4.150E-38	1.263E-37	3.819E-37	1.450E-36	6.507E-36	8.960E-35	1.495E-30	1.495E-30	1.495E-30	1.495E-30	1.495E-30	1.495E-30	1.495E-30	1.495E-30	1.495E-30
U-235	Ac-227	1.000E+00	3.415E-40	2.373E-39	1.234E-38	1.043E-37	7.576E-37	5.602E-36	3.226E-35	4.866E-34	8.946E-30	8.946E-30	8.946E-30	8.946E-30	8.946E-30	8.946E-30	8.946E-30	8.946E-30	8.946E-30
U-235	ΣDSR(j)		7.898E-39	2.175E-38	5.551E-38	2.323E-37	1.141E-36	7.055E-36	3.877E-35	5.763E-34	1.044E-29	1.044E-29	1.044E-29	1.044E-29	1.044E-29	1.044E-29	1.044E-29	1.044E-29	1.044E-29
U-236	U-236	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-236	Th-232	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-236	Ra-228	1.000E+00	1.037E-36	7.025E-36	3.459E-35	2.453E-34	1.247E-33	5.716E-33	2.466E-32	2.463E-31	5.920E-28	5.920E-28	5.920E-28	5.920E-28	5.920E-28	5.920E-28	5.920E-28	5.920E-28	5.920E-28
U-236	Th-228	1.000E+00	6.230E-34	8.481E-33	8.035E-32	1.114E-30	7.734E-30	3.837E-29	1.614E-28	1.380E-27	1.318E-24	1.318E-24	1.318E-24	1.318E-24	1.318E-24	1.318E-24	1.318E-24	1.318E-24	1.318E-24
U-236	ΣDSR(j)		6.241E-34	8.488E-33	8.038E-32	1.114E-30	7.735E-30	3.838E-29	1.614E-28	1.381E-27	1.318E-24	1.318E-24	1.318E-24	1.318E-24	1.318E-24	1.318E-24	1.318E-24	1.318E-24	1.318E-24
U-238	U-238	1.000E+00	2.084E-27	2.088E-27	2.094E-27	2.118E-27	2.186E-27	2.443E-27	3.355E-27	1.019E-26	5.817E-24	5.817E-24	5.817E-24	5.817E-24	5.817E-24	5.817E-24	5.817E-24	5.817E-24	5.817E-24
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	8.935E-18	1.340E-16	1.564E-15	4.148E-14	1.015E-12	3.638E-11	9.782E-10	3.714E-08	5.569E-06	5.569E-06	5.569E-06	5.569E-06	5.569E-06	5.569E-06	5.569E-06	5.569E-06	5.569E-06
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	ΣDSR(j)		8.935E-18	1.340E-16	1.564E-15	4.148E-14	1.015E-12	3.638E-11	9.782E-10	3.714E-08	5.569E-06	5.569E-06	5.569E-06	5.569E-06	5.569E-06	5.569E-06	5.569E-06	5.569E-06	5.569E-06
Zn-65	Zn-65	1.000E+00	5.380E-24	1.908E-24	2.401E-25	1.696E-28	1.686E-37	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Single Radionuclide Soil Guidelines G(i,t) in pCi/g

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

Nuclide	t = 0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03	5.000E+03
Ac-227	*7.230E+13	*7.230E+13	*7.230E+13	*7.230E+13	*7.230E+13	*7.230E+13	*7.230E+13	*7.230E+13	*7.230E+13
Ag-108m	*2.608E+13	*2.608E+13	*2.608E+13	*2.608E+13	*2.608E+13	*2.608E+13	*2.608E+13	*2.608E+13	*2.608E+13
Ag-110m	*4.752E+15	*4.752E+15	*4.752E+15	*4.752E+15	*4.752E+15	*4.752E+15	*4.752E+15	*4.752E+15	*4.752E+15
Am-241	*3.430E+12	*3.430E+12	*3.430E+12	*3.430E+12	*3.430E+12	*3.430E+12	*3.430E+12	*3.430E+12	*3.430E+12
Am-243	*1.992E+11	*1.992E+11	*1.992E+11	*1.992E+11	*1.992E+11	*1.992E+11	*1.992E+11	*1.992E+11	*1.992E+11
Au-195	*3.658E+15	*3.658E+15	*3.658E+15	*3.658E+15	*3.658E+15	*3.658E+15	*3.658E+15	*3.658E+15	*3.658E+15
Ba-133	*2.503E+14	*2.503E+14	*2.503E+14	*2.503E+14	*2.503E+14	*2.503E+14	*2.503E+14	*2.503E+14	*2.503E+14
C-14	*4.454E+12	*4.454E+12	*4.454E+12	*4.454E+12	*4.454E+12	*4.454E+12	*4.454E+12	4.901E+01	2.978E+02
Ca-41	*6.232E+10	*6.232E+10	*6.232E+10	*6.232E+10	*6.232E+10	*6.232E+10	*6.232E+10	*6.232E+10	2.479E+02
Cd-109	*2.584E+15	*2.584E+15	*2.584E+15	*2.584E+15	*2.584E+15	*2.584E+15	*2.584E+15	*2.584E+15	*2.584E+15
Ce-144	*3.190E+15	*3.190E+15	*3.190E+15	*3.190E+15	*3.190E+15	*3.190E+15	*3.190E+15	*3.190E+15	*3.190E+15
Cf-252	*5.374E+14	*5.374E+14	*5.374E+14	*5.374E+14	*5.374E+14	*5.374E+14	*5.374E+14	*5.374E+14	*5.374E+14
Cm-243	*5.159E+13	*5.159E+13	*5.159E+13	*5.159E+13	*5.159E+13	*5.159E+13	*5.159E+13	*5.159E+13	*5.159E+13
Cm-244	*8.086E+13	*8.086E+13	*8.086E+13	*8.086E+13	*8.086E+13	*8.086E+13	*8.086E+13	*8.086E+13	*8.086E+13
Cm-245	*1.716E+11	*1.716E+11	*1.716E+11	*1.716E+11	*1.716E+11	*1.716E+11	*1.716E+11	*1.716E+11	*1.716E+11
Cm-246	*3.071E+11	*3.071E+11	*3.071E+11	*3.071E+11	*3.071E+11	*3.071E+11	*3.071E+11	*3.071E+11	*3.071E+11
Cm-247	*9.278E+07	*9.278E+07	*9.278E+07	*9.278E+07	*9.278E+07	*9.278E+07	*9.278E+07	*9.278E+07	*9.278E+07
Co-57	*8.464E+15	*8.464E+15	*8.464E+15	*8.464E+15	*8.464E+15	*8.464E+15	*8.464E+15	*8.464E+15	*8.464E+15
Co-60	*1.131E+15	*1.131E+15	*1.131E+15	*1.131E+15	*1.131E+15	*1.131E+15	*1.131E+15	*1.131E+15	*1.131E+15
Cs-134	*1.294E+15	*1.294E+15	*1.294E+15	*1.294E+15	*1.294E+15	*1.294E+15	*1.294E+15	*1.294E+15	*1.294E+15
Cs-135	*1.152E+09	*1.152E+09	*1.152E+09	*1.152E+09	*1.152E+09	*1.152E+09	*1.152E+09	*1.152E+09	*1.152E+09
Cs-137	*8.701E+13	*8.701E+13	*8.701E+13	*8.701E+13	*8.701E+13	*8.701E+13	*8.701E+13	*8.701E+13	*8.701E+13
Eu-152	*1.765E+14	*1.765E+14	*1.765E+14	*1.765E+14	*1.765E+14	*1.765E+14	*1.765E+14	*1.765E+14	*1.765E+14
Eu-154	*2.639E+14	*2.639E+14	*2.639E+14	*2.639E+14	*2.639E+14	*2.639E+14	*2.639E+14	*2.639E+14	*2.639E+14
Eu-155	*4.651E+14	*4.651E+14	*4.651E+14	*4.651E+14	*4.651E+14	*4.651E+14	*4.651E+14	*4.651E+14	*4.651E+14
Fe-55	*2.409E+15	*2.409E+15	*2.409E+15	*2.409E+15	*2.409E+15	*2.409E+15	*2.409E+15	*2.409E+15	*2.409E+15
Gd-152	*2.178E+01	*2.178E+01	*2.178E+01	*2.178E+01	*2.178E+01	*2.178E+01	*2.178E+01	*2.178E+01	*2.178E+01
Gd-153	*3.527E+15	*3.527E+15	*3.527E+15	*3.527E+15	*3.527E+15	*3.527E+15	*3.527E+15	*3.527E+15	*3.527E+15
Ge-68	*6.672E+15	*6.672E+15	*6.672E+15	*6.672E+15	*6.672E+15	*6.672E+15	*6.672E+15	*6.672E+15	*6.672E+15
H-3	*9.594E+15	*9.594E+15	*9.594E+15	*9.594E+15	*9.594E+15	*9.594E+15	5.231E+09	*9.594E+15	*9.594E+15
I-129	*1.766E+08	*1.766E+08	*1.766E+08	*1.766E+08	*1.766E+08	*1.766E+08	4.359E-02	1.192E+00	*1.766E+08
K-40	*6.986E+06	*6.986E+06	*6.986E+06	*6.986E+06	*6.986E+06	*6.986E+06	*6.986E+06	*6.986E+06	*6.986E+06
Mn-54	*7.744E+15	*7.744E+15	*7.744E+15	*7.744E+15	*7.744E+15	*7.744E+15	*7.744E+15	*7.744E+15	*7.744E+15
Na-22	*6.244E+15	*6.244E+15	*6.244E+15	*6.244E+15	*6.244E+15	*6.244E+15	*6.244E+15	*6.244E+15	*6.244E+15
Nb-93m	*2.826E+14	*2.826E+14	*2.826E+14	*2.826E+14	*2.826E+14	*2.826E+14	*2.826E+14	*2.826E+14	*2.826E+14
Nb-94	*1.875E+11	*1.875E+11	*1.875E+11	*1.875E+11	*1.875E+11	*1.875E+11	*1.875E+11	*1.875E+11	*1.875E+11
Ni-59	*8.085E+10	*8.085E+10	*8.085E+10	*8.085E+10	*8.085E+10	*8.085E+10	*8.085E+10	*8.085E+10	*8.085E+10
Ni-63	*5.916E+13	*5.916E+13	*5.916E+13	*5.916E+13	*5.916E+13	*5.916E+13	*5.916E+13	*5.916E+13	*5.916E+13
Np-237	*7.045E+08	*7.045E+08	*7.045E+08	*7.045E+08	*7.045E+08	*7.045E+08	*7.045E+08	*7.045E+08	*7.045E+08
Pa-231	*4.722E+10	*4.722E+10	*4.722E+10	*4.722E+10	*4.722E+10	*4.722E+10	*4.722E+10	*4.722E+10	*4.722E+10
Pb-210	*7.631E+13	*7.631E+13	*7.631E+13	*7.631E+13	*7.631E+13	*7.631E+13	*7.631E+13	*7.631E+13	*7.631E+13
Pm-147	*9.267E+14	*9.267E+14	*9.267E+14	*9.267E+14	*9.267E+14	*9.267E+14	*9.267E+14	*9.267E+14	*9.267E+14
Pu-238	*1.711E+13	*1.711E+13	*1.711E+13	*1.711E+13	*1.711E+13	8.281E+11	4.220E+10	2.308E+09	6.867E+07
Pu-239	*6.212E+10	*6.212E+10	*6.212E+10	*6.212E+10	*6.212E+10	*6.212E+10	*6.212E+10	*6.212E+10	*6.212E+10
Pu-240	*2.277E+11	*2.277E+11	*2.277E+11	*2.277E+11	*2.277E+11	*2.277E+11	*2.277E+11	*2.277E+11	*2.277E+11
Pu-241	*1.030E+14	*1.030E+14	*1.030E+14	*1.030E+14	*1.030E+14	*1.030E+14	*1.030E+14	*1.030E+14	*1.030E+14
Pu-242	*3.923E+09	*3.923E+09	*3.923E+09	*3.923E+09	*3.923E+09	*3.923E+09	*3.923E+09	*3.923E+09	*3.923E+09
Pu-244	*1.773E+07	*1.773E+07	*1.773E+07	*1.773E+07	*1.773E+07	*1.773E+07	*1.773E+07	*1.773E+07	*1.773E+07
Ra-226	1.289E+03	1.290E+03	1.290E+03	1.293E+03	1.300E+03	1.327E+03	1.405E+03	1.709E+03	5.404E+03

Summary : EGL Vadose Zone Analysis File: USEI_EGL_FINAL_03_25_05.RAD

Ra-228	*2.726E+14	*2.726E+14	*2.726E+14	*2.726E+14	*2.726E+14	*2.726E+14	*2.726E+14	*2.726E+14	*2.726E+14	*2.726E+14
Ru-106	*3.347E+15	*3.347E+15	*3.347E+15	*3.347E+15	*3.347E+15	*3.347E+15	*3.347E+15	*3.347E+15	*3.347E+15	*3.347E+15
Sb-125	*1.033E+15	*1.033E+15	*1.033E+15	*1.033E+15	*1.033E+15	*1.033E+15	*1.033E+15	*1.033E+15	*1.033E+15	*1.033E+15
Sm-147	*2.294E+04	*2.294E+04	*2.294E+04	*2.294E+04	*2.294E+04	*2.294E+04	*2.294E+04	*2.294E+04	*2.294E+04	*2.294E+04
Sm-151	*2.631E+13	*2.631E+13	*2.631E+13	*2.631E+13	*2.631E+13	*2.631E+13	*2.631E+13	*2.631E+13	*2.631E+13	*2.631E+13
Sr-90	*1.365E+14	*1.365E+14	*1.365E+14	*1.365E+14	*1.365E+14	*1.365E+14	*1.365E+14	*1.365E+14	*1.365E+14	*1.365E+14
Tc-99	*1.696E+10	*1.696E+10	*1.696E+10	*1.696E+10	*1.696E+10	*1.696E+10	1.169E+01	1.843E+04	*1.696E+10	*1.696E+10
Th-228	*8.192E+14	*8.192E+14	*8.192E+14	*8.192E+14	*8.192E+14	*8.192E+14	*8.192E+14	*8.192E+14	*8.192E+14	*8.192E+14
Th-229	*2.126E+11	*2.126E+11	*2.126E+11	*2.126E+11	*2.126E+11	*2.126E+11	*2.126E+11	*2.126E+11	*2.126E+11	*2.126E+11
Th-230	5.951E+06	1.984E+06	8.503E+05	2.836E+05	9.775E+04	2.979E+04	1.009E+04	3.125E+03	6.651E+02	
Th-232	*1.096E+05	*1.096E+05	*1.096E+05	*1.096E+05	*1.096E+05	*1.096E+05	*1.096E+05	*1.096E+05	*1.096E+05	*1.096E+05
Tl-204	*4.636E+14	*4.636E+14	*4.636E+14	*4.636E+14	*4.636E+14	*4.636E+14	*4.636E+14	*4.636E+14	*4.636E+14	*4.636E+14
U-233	*9.675E+09	*9.675E+09	*9.675E+09	*9.675E+09	*9.675E+09	*9.675E+09	*9.675E+09	*9.675E+09	*9.675E+09	*9.675E+09
U-234	*6.245E+09	*6.245E+09	*6.245E+09	5.992E+09	7.106E+08	6.547E+07	7.324E+06	6.554E+05	2.379E+04	
U-235	*2.160E+06	*2.160E+06	*2.160E+06	*2.160E+06	*2.160E+06	*2.160E+06	*2.160E+06	*2.160E+06	*2.160E+06	*2.160E+06
U-236	*6.466E+07	*6.466E+07	*6.466E+07	*6.466E+07	*6.466E+07	*6.466E+07	*6.466E+07	*6.466E+07	*6.466E+07	*6.466E+07
U-238	*3.360E+05	*3.360E+05	*3.360E+05	*3.360E+05	*3.360E+05	*3.360E+05	*3.360E+05	*3.360E+05	*3.360E+05	*3.360E+05
Zn-65	*8.241E+15	*8.241E+15	*8.241E+15	*8.241E+15	*8.241E+15	*8.241E+15	*8.241E+15	*8.241E+15	*8.241E+15	*8.241E+15

*At specific activity limit

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 = 287.3 ± 0.6 years

Nuclide (i)	Initial (pCi/g)	tmin (years)	DSR(i,tmin) G(i,tmin) (pCi/g)	DSR(i,tmax) G(i,tmax) (pCi/g)
Ac-227	3.200E+00	0.000E+00	0.000E+00 *7.230E+13	0.000E+00 *7.230E+13
Ag-108m	2.500E+01	0.000E+00	5.429E-27 *2.608E+13	1.848E-27 *2.608E+13
Ag-110m	2.500E+01	0.000E+00	3.692E-24 *4.752E+15	0.000E+00 *4.752E+15
Am-241	1.000E-01	0.000E+00	0.000E+00 *3.430E+12	0.000E+00 *3.430E+12
Am-243	1.000E-01	0.000E+00	0.000E+00 *1.992E+11	0.000E+00 *1.992E+11
Au-195	1.000E+02	0.000E+00	0.000E+00 *3.658E+15	0.000E+00 *3.658E+15
Ba-133	2.500E+01	0.000E+00	0.000E+00 *2.503E+14	0.000E+00 *2.503E+14
C-14	1.000E+01	897 ± 2	5.343E-01 4.679E+01	0.000E+00 *4.454E+12
Ca-41	2.500E+01	3898 ± 8	1.441E-01 1.735E+02	0.000E+00 *6.232E+10
Cd-109	2.500E+01	0.000E+00	0.000E+00 *2.584E+15	0.000E+00 *2.584E+15
Ce-144	2.500E+01	0.000E+00	8.130E-28 *3.190E+15	0.000E+00 *3.190E+15
Cf-252	1.000E-01	0.000E+00	0.000E+00 *5.374E+14	0.000E+00 *5.374E+14
Cm-243	1.000E-01	0.000E+00	0.000E+00 *5.159E+13	0.000E+00 *5.159E+13
Cm-244	1.000E-01	0.000E+00	0.000E+00 *8.086E+13	0.000E+00 *8.086E+13
Cm-245	1.000E-01	0.000E+00	0.000E+00 *1.716E+11	0.000E+00 *1.716E+11
Cm-246	1.000E-01	5.000E+03	2.145E-15 *3.071E+11	1.022E-21 *3.071E+11
Cm-247	1.000E-01	5.000E+03	7.784E-27 *9.278E+07	0.000E+00 *9.278E+07
Co-57	2.500E+01	0.000E+00	0.000E+00 *8.464E+15	0.000E+00 *8.464E+15
Co-60	2.500E+01	0.000E+00	1.364E-21 *1.131E+15	0.000E+00 *1.131E+15
Cs-134	2.500E+01	0.000E+00	5.881E-26 *1.294E+15	0.000E+00 *1.294E+15
Cs-135	2.500E+01	0.000E+00	0.000E+00 *1.152E+09	0.000E+00 *1.152E+09
Cs-137	2.500E+01	0.000E+00	6.850E-27 *8.701E+13	1.456E-29 *8.701E+13
Eu-152	2.500E+01	0.000E+00	1.567E-23 *1.765E+14	7.829E-30 *1.765E+14
Eu-154	2.500E+01	0.000E+00	5.997E-23 *2.639E+14	0.000E+00 *2.639E+14
Eu-155	2.500E+01	0.000E+00	0.000E+00 *4.651E+14	0.000E+00 *4.651E+14
Fe-55	2.500E+01	0.000E+00	0.000E+00 *2.409E+15	0.000E+00 *2.409E+15
Gd-152	2.500E+01	0.000E+00	0.000E+00 *2.178E+01	0.000E+00 *2.178E+01
Gd-153	2.500E+01	0.000E+00	0.000E+00 *3.527E+15	0.000E+00 *3.527E+15
Ge-68	2.500E+01	0.000E+00	5.822E-28 *6.672E+15	0.000E+00 *6.672E+15
H-3	1.000E+03	213.2 ± 0.4	1.064E-06 2.350E+07	1.115E-08 2.242E+09
I-129	1.000E-02	287.3 ± 0.6	6.084E+02 4.109E-02	6.084E+02 4.109E-02
K-40	8.000E+02	5.000E+03	1.157E-19 *6.986E+06	3.094E-22 *6.986E+06
Mn-54	2.500E+01	0.000E+00	6.286E-25 *7.744E+15	0.000E+00 *7.744E+15
Na-22	2.500E+01	0.000E+00	4.106E-24 *6.244E+15	0.000E+00 *6.244E+15
Nb-93m	2.500E+01	0.000E+00	0.000E+00 *2.826E+14	0.000E+00 *2.826E+14
Nb-94	2.500E+01	5.000E+03	6.712E-22 *1.875E+11	4.013E-25 *1.875E+11
Ni-59	2.500E+01	0.000E+00	0.000E+00 *8.085E+10	0.000E+00 *8.085E+10
Ni-63	2.500E+01	0.000E+00	0.000E+00 *5.916E+13	0.000E+00 *5.916E+13
Np-237	1.000E-01	5.000E+03	4.895E-30 *7.045E+08	0.000E+00 *7.045E+08
Pa-231	3.200E+00	5.000E+03	1.054E-28 *4.722E+10	0.000E+00 *4.722E+10
Pb-210	3.330E+02	0.000E+00	0.000E+00 *7.631E+13	0.000E+00 *7.631E+13
Pm-147	2.500E+01	0.000E+00	0.000E+00 *9.267E+14	0.000E+00 *9.267E+14
Pu-238	1.000E-01	5.000E+03	3.640E-07 6.867E+07	5.297E-10 4.720E+10
Pu-239	1.000E-01	0.000E+00	0.000E+00 *6.212E+10	0.000E+00 *6.212E+10
Pu-240	1.000E-01	5.000E+03	8.488E-29 *2.277E+11	0.000E+00 *2.277E+11
Pu-241	1.000E-01	0.000E+00	0.000E+00 *1.030E+14	0.000E+00 *1.030E+14
Pu-242	1.000E-01	5.000E+03	1.215E-12 *3.923E+09	9.662E-18 *3.923E+09
Pu-244	1.000E-01	5.000E+03	2.186E-22 *1.773E+07	9.077E-26 *1.773E+07

Ra-226	1.120E+02	0.000E+00	1.939E-02	1.289E+03	1.785E-02	1.400E+03
Ra-228	2.800E+01	4.098 ± 0.008	4.423E-21	*2.726E+14	0.000E+00	*2.726E+14
Ru-106	2.500E+01	0.000E+00	9.976E-28	*3.347E+15	0.000E+00	*3.347E+15
Sb-125	2.500E+01	0.000E+00	9.422E-29	*1.033E+15	0.000E+00	*1.033E+15
Sm-147	2.500E+01	0.000E+00	0.000E+00	*2.294E+04	0.000E+00	*2.294E+04
Sm-151	2.500E+01	0.000E+00	0.000E+00	*2.631E+13	0.000E+00	*2.631E+13
Sr-90	2.500E+01	0.000E+00	0.000E+00	*1.365E+14	0.000E+00	*1.365E+14
Tc-99	1.000E+00	220.1 ± 0.4	4.944E+00	5.057E+00	2.444E+00	1.023E+01
Th-228	2.800E+01	0.000E+00	6.398E-21	*8.192E+14	0.000E+00	*8.192E+14
Th-229	2.800E+01	5.000E+03	4.541E-28	*2.126E+11	0.000E+00	*2.126E+11
Th-230	8.300E+01	5.000E+03	3.759E-02	6.651E+02	2.376E-03	1.052E+04
Th-232	2.800E+01	5.000E+03	6.029E-18	*1.096E+05	1.119E-20	*1.096E+05
Tl-204	2.500E+01	202.1 ± 0.4	2.779E-16	*4.636E+14	9.018E-23	*4.636E+14
U-233	3.300E+00	5.000E+03	2.384E-28	*9.675E+09	0.000E+00	*9.675E+09
U-234	8.300E+01	5.000E+03	1.051E-03	2.379E+04	3.131E-06	7.985E+06
U-235	3.200E+00	5.000E+03	1.044E-29	*2.160E+06	0.000E+00	*2.160E+06
U-236	3.200E+00	5.000E+03	1.318E-24	*6.466E+07	1.517E-28	*6.466E+07
U-238	8.300E+01	5.000E+03	5.569E-06	*3.360E+05	8.589E-10	*3.360E+05
Zn-65	2.500E+01	0.000E+00	5.380E-24	*8.241E+15	0.000E+00	*8.241E+15

*At specific activity limit

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

Nuclide (j)	Parent (i)	BRF(i)	DOSE(j,t), mrem/yr									
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03	5.000E+03	
Ru-106	Ru-106	1.000E+00	2.494E-26	1.256E-26	3.186E-27	2.619E-29	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Sb-125	Sb-125	1.000E+00	2.355E-27	1.837E-27	1.118E-27	1.963E-28	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Sm-151	Sm-151	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Sr-90	Sr-90	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Tc-99	Tc-99	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.138E+00	1.356E-03	7.244E-22	
Tl-204	Tl-204	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.915E-22	0.000E+00	0.000E+00	
Zn-65	Zn-65	1.000E+00	1.345E-22	4.771E-23	6.002E-24	4.240E-27	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

BRF(i) is the branch fraction of the parent nuclide.

Individual Nuclide Soil Concentration
 Parent Nuclide and Branch Fraction Indicated

Nuclide (j)	Parent (i)	BRF(i)	S(j,t), pCi/g								
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03	5.000E+03
Ac-227	Ac-227	1.000E+00	3.200E+00	3.100E+00	2.908E+00	2.327E+00	1.231E+00	1.326E-01	2.275E-04	4.760E-14	0.000E+00
Ac-227	Am-243	1.000E+00	0.000E+00	7.911E-23	6.327E-21	7.477E-19	5.382E-17	4.695E-15	1.984E-13	8.685E-12	9.588E-10
Ac-227	Cm-243	9.976E-01	0.000E+00	7.854E-23	6.221E-21	7.108E-19	4.656E-17	2.994E-15	6.639E-14	1.028E-12	2.515E-11
Ac-227	Cm-243	2.400E-03	0.000E+00	3.556E-30	8.480E-28	3.272E-25	6.654E-23	1.576E-20	1.226E-18	7.122E-17	8.686E-15
Ac-227	Cm-247	1.000E+00	0.000E+00	1.488E-27	3.577E-25	1.419E-22	3.123E-20	9.542E-18	1.294E-15	2.000E-13	1.174E-10
Ac-227	Pa-231	1.000E+00	0.000E+00	1.003E-01	2.915E-01	8.724E-01	1.968E+00	3.062E+00	3.179E+00	3.125E+00	2.836E+00
Ac-227	Pu-239	1.000E+00	0.000E+00	1.097E-17	2.915E-16	1.023E-14	2.388E-13	5.827E-12	7.545E-11	9.457E-10	2.161E-08
Ac-227	U-235	1.000E+00	0.000E+00	1.066E-06	9.397E-06	9.717E-05	7.222E-04	4.718E-03	1.800E-02	6.329E-02	2.806E-01
Ac-227	ΣS(j):		3.200E+00	3.200E+00	3.200E+00	3.200E+00	3.200E+00	3.199E+00	3.197E+00	3.189E+00	3.116E+00
Ag-108m	Ag-108m	1.000E+00	2.500E+01	2.486E+01	2.459E+01	2.367E+01	2.121E+01	1.446E+01	4.835E+00	1.046E-01	3.198E-11
Ag-110m	Ag-110m	1.000E+00	2.500E+01	9.077E+00	1.197E+00	9.957E-04	1.579E-12	2.452E-43	0.000E+00	0.000E+00	0.000E+00
Am-241	Am-241	1.000E+00	1.000E-01	9.984E-02	9.952E-02	9.841E-02	9.530E-02	8.517E-02	6.179E-02	2.010E-02	3.277E-05
Am-241	Cm-245	1.000E+00	0.000E+00	3.796E-06	3.307E-05	3.289E-04	2.224E-03	1.187E-02	3.561E-02	7.526E-02	6.974E-02
Am-241	Pu-241	1.000E+00	0.000E+00	1.564E-04	4.469E-04	1.262E-03	2.471E-03	2.907E-03	2.130E-03	6.926E-04	1.129E-06
Am-241	ΣS(j):		1.000E-01	1.000E-01	1.000E-01	1.000E-01	1.000E-01	9.995E-02	9.953E-02	9.605E-02	6.977E-02
Np-237	Am-241	1.000E+00	0.000E+00	3.236E-08	9.694E-08	3.213E-07	9.486E-07	2.991E-06	7.704E-06	1.606E-05	1.957E-05
Np-237	Cm-245	1.000E+00	0.000E+00	4.116E-13	1.084E-11	3.694E-10	8.021E-09	1.658E-07	1.746E-06	1.521E-05	1.161E-04
Np-237	Cm-245	2.450E-05	0.000E+00	1.880E-14	1.639E-13	1.637E-12	1.120E-11	6.276E-11	2.188E-10	7.438E-10	3.178E-09
Np-237	Np-237	1.000E+00	1.000E-01	1.000E-01	1.000E-01	9.999E-02	9.998E-02	9.993E-02	9.979E-02	9.930E-02	9.656E-02
Np-237	Pu-241	1.000E+00	0.000E+00	2.555E-11	2.225E-10	2.214E-09	1.498E-08	8.011E-08	2.423E-07	5.304E-07	6.520E-07
Np-237	Pu-241	2.450E-05	0.000E+00	7.748E-13	2.217E-12	6.298E-12	1.259E-11	1.634E-11	1.645E-11	1.637E-11	1.592E-11
Np-237	ΣS(j):		1.000E-01	1.000E-01	1.000E-01	9.999E-02	9.998E-02	9.993E-02	9.980E-02	9.933E-02	9.669E-02
U-233	Am-241	1.000E+00	0.000E+00	7.078E-14	6.364E-13	7.043E-12	6.269E-11	6.705E-10	5.429E-09	4.333E-08	3.383E-07
U-233	Cm-245	1.000E+00	0.000E+00	4.511E-19	3.583E-17	4.136E-15	2.806E-13	2.122E-11	7.424E-10	2.414E-08	1.108E-06
U-233	Cm-245	2.450E-05	0.000E+00	2.751E-20	7.253E-19	2.478E-17	5.425E-16	1.158E-14	1.342E-13	1.589E-12	3.402E-11
U-233	Np-237	1.000E+00	0.000E+00	4.373E-07	1.312E-06	4.372E-06	1.311E-05	4.360E-05	1.300E-04	4.244E-04	1.885E-03
U-233	Pu-241	1.000E+00	0.000E+00	3.739E-17	9.851E-16	3.357E-14	7.289E-13	1.508E-11	1.590E-10	1.397E-09	1.122E-08
U-233	Pu-241	2.450E-05	0.000E+00	1.708E-18	1.489E-17	1.487E-16	1.018E-15	5.709E-15	1.996E-14	6.854E-14	3.096E-13
U-233	U-233	1.000E+00	3.300E+00	3.300E+00	3.299E+00	3.298E+00	3.295E+00	3.282E+00	3.248E+00	3.129E+00	2.527E+00
U-233	ΣS(j):		3.300E+00	3.300E+00	3.299E+00	3.298E+00	3.295E+00	3.282E+00	3.248E+00	3.129E+00	2.529E+00
Th-229	Am-241	1.000E+00	0.000E+00	2.228E-18	6.011E-17	2.220E-15	5.941E-14	2.134E-12	5.296E-11	1.497E-09	6.468E-08
Th-229	Cm-245	1.000E+00	0.000E+00	8.534E-24	2.040E-21	7.935E-19	1.660E-16	4.464E-14	5.053E-12	5.904E-10	1.486E-07
Th-229	Cm-245	2.450E-05	0.000E+00	6.510E-25	5.173E-23	5.985E-21	4.086E-19	3.164E-17	1.188E-15	4.845E-14	5.027E-12
Th-229	Np-237	1.000E+00	0.000E+00	2.065E-11	1.858E-10	2.064E-09	1.856E-08	2.054E-07	1.830E-06	1.961E-05	4.001E-04
Th-229	Pu-241	1.000E+00	0.000E+00	8.850E-22	7.028E-20	8.113E-18	5.504E-16	4.161E-14	1.455E-12	4.721E-11	2.137E-09
Th-229	Pu-241	2.450E-05	0.000E+00	5.397E-23	1.423E-21	4.861E-20	1.064E-18	2.271E-17	2.630E-16	3.104E-15	6.548E-14
Th-229	Th-229	1.000E+00	2.800E+01	2.800E+01	2.799E+01	2.797E+01	2.792E+01	2.774E+01	2.721E+01	2.546E+01	1.742E+01
Th-229	U-233	1.000E+00	0.000E+00	3.116E-04	9.347E-04	3.114E-03	9.328E-03	3.093E-02	9.143E-02	2.894E-01	1.077E+00
Th-229	ΣS(j):		2.800E+01	2.800E+01	2.799E+01	2.798E+01	2.793E+01	2.777E+01	2.730E+01	2.575E+01	1.849E+01
Am-243	Am-243	1.000E+00	1.000E-01	9.999E-02	9.997E-02	9.991E-02	9.972E-02	9.906E-02	9.720E-02	9.095E-02	6.224E-02
Am-243	Cm-243	2.400E-03	0.000E+00	2.227E-08	6.521E-08	2.000E-07	4.792E-07	8.399E-07	9.037E-07	8.462E-07	5.791E-07
Am-243	Cm-247	1.000E+00	0.000E+00	9.392E-06	2.817E-05	9.388E-05	2.814E-04	9.347E-04	2.777E-03	8.955E-03	3.727E-02
Am-243	ΣS(j):		1.000E-01	1.000E-01	1.000E-01	1.000E-01	1.000E-01	9.999E-02	9.997E-02	9.991E-02	9.951E-02

Individual Nuclide Soil Concentration
 Parent Nuclide and Branch Fraction Indicated

Nuclide (j)	Parent (i)	BRF(i)	S(j,t), pCi/g									
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03	5.000E+03	
Pu-239	Am-243	1.000E+00	0.000E+00	2.880E-06	8.639E-06	2.878E-05	8.625E-05	2.862E-04	8.478E-04	2.704E-03	1.053E-02	
Pu-239	Cm-243	9.976E-01	0.000E+00	2.839E-06	8.313E-06	2.550E-05	6.115E-05	1.075E-04	1.171E-04	1.146E-04	1.008E-04	
Pu-239	Cm-243	2.400E-03	0.000E+00	3.220E-13	2.852E-12	2.997E-11	2.321E-10	1.660E-09	6.796E-09	2.409E-08	9.706E-08	
Pu-239	Cm-247	1.000E+00	0.000E+00	1.353E-10	1.217E-09	1.352E-08	1.216E-07	1.347E-06	1.202E-05	1.296E-04	2.745E-03	
Pu-239	Pu-239	1.000E+00	1.000E-01	1.000E-01	9.999E-02	9.997E-02	9.990E-02	9.968E-02	9.905E-02	9.686E-02	8.524E-02	
Pu-239	ΣS(j):		1.000E-01	1.000E-01	1.000E-01	1.000E-01	1.001E-01	1.001E-01	1.000E-01	9.981E-02	9.862E-02	
U-235	Am-243	1.000E+00	0.000E+00	1.418E-15	1.276E-14	1.418E-13	1.274E-12	1.410E-11	1.254E-10	1.338E-09	2.651E-08	
U-235	Cm-243	9.976E-01	0.000E+00	1.404E-15	1.243E-14	1.307E-13	1.012E-12	7.249E-12	2.980E-11	1.073E-10	4.722E-10	
U-235	Cm-243	2.400E-03	0.000E+00	1.059E-22	2.825E-21	1.004E-19	2.417E-18	6.359E-17	8.890E-16	1.145E-14	2.423E-13	
U-235	Cm-247	1.000E+00	0.000E+00	4.440E-20	1.199E-18	4.439E-17	1.197E-15	4.421E-14	1.183E-12	4.249E-11	4.461E-09	
U-235	Pu-239	1.000E+00	0.000E+00	9.848E-11	2.954E-10	9.845E-10	2.951E-09	9.809E-09	2.919E-08	9.458E-08	4.024E-07	
U-235	U-235	1.000E+00	3.200E+00	3.200E+00	3.200E+00	3.198E+00	3.195E+00	3.184E+00	3.153E+00	3.047E+00	2.505E+00	
U-235	ΣS(j):		3.200E+00	3.200E+00	3.200E+00	3.198E+00	3.195E+00	3.184E+00	3.153E+00	3.047E+00	2.505E+00	
Pa-231	Am-243	1.000E+00	0.000E+00	1.000E-20	2.701E-19	9.998E-18	2.697E-16	9.953E-15	2.661E-13	9.516E-12	9.756E-10	
Pa-231	Cm-243	9.976E-01	0.000E+00	9.919E-21	2.646E-19	9.398E-18	2.265E-16	5.966E-15	8.378E-14	1.096E-12	2.545E-11	
Pa-231	Cm-243	2.400E-03	0.000E+00	5.610E-28	4.500E-26	5.372E-24	3.968E-22	3.697E-20	1.694E-18	7.832E-17	8.840E-15	
Pa-231	Cm-247	1.000E+00	0.000E+00	2.349E-25	1.902E-23	2.348E-21	1.900E-19	2.339E-17	1.880E-15	2.256E-13	1.203E-10	
Pa-231	Pa-231	1.000E+00	3.200E+00	3.200E+00	3.200E+00	3.199E+00	3.198E+00	3.192E+00	3.177E+00	3.123E+00	2.834E+00	
Pa-231	Pu-239	1.000E+00	0.000E+00	1.042E-15	9.376E-15	1.042E-13	9.367E-13	1.038E-11	9.279E-11	1.006E-09	2.187E-08	
Pa-231	U-235	1.000E+00	0.000E+00	6.770E-05	2.031E-04	6.768E-04	2.029E-03	6.746E-03	2.009E-02	6.527E-02	2.821E-01	
Pa-231	ΣS(j):		3.200E+00	3.200E+00	3.200E+00	3.200E+00	3.200E+00	3.199E+00	3.197E+00	3.188E+00	3.116E+00	
Au-195	Au-195	1.000E+00	1.000E+02	2.481E+01	1.527E+00	8.824E-05	6.871E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Ba-133	Ba-133	1.000E+00	2.500E+01	2.344E+01	2.060E+01	1.311E+01	3.603E+00	3.922E-02	9.656E-08	2.260E-27	0.000E+00	
C-14	C-14	1.000E+00	1.000E+01	9.995E+00	9.986E+00	9.955E+00	9.865E+00	9.556E+00	8.725E+00	6.348E+00	1.031E+00	
Ca-41	Ca-41	1.000E+00	2.500E+01	2.499E+01	2.497E+01	2.492E+01	2.475E+01	2.417E+01	2.259E+01	1.782E+01	4.602E+00	
Cd-109	Cd-109	1.000E+00	2.500E+01	1.448E+01	4.860E+00	1.064E-01	1.927E-06	4.876E-23	0.000E+00	0.000E+00	0.000E+00	
Ce-144	Ce-144	1.000E+00	2.500E+01	1.026E+01	1.729E+00	3.393E-03	6.252E-11	5.307E-38	0.000E+00	0.000E+00	0.000E+00	
Cf-252	Cf-252	9.691E-01	1.000E-01	7.689E-02	4.546E-02	7.225E-03	3.772E-05	3.878E-13	5.834E-36	0.000E+00	0.000E+00	
Cm-248	Cf-252	9.691E-01	0.000E+00	1.743E-07	4.113E-07	6.996E-07	7.538E-07	7.539E-07	7.534E-07	7.516E-07	7.418E-07	
Pu-244	Cf-252	9.691E-01	0.000E+00	7.001E-16	5.367E-15	3.756E-14	1.521E-13	5.583E-13	1.718E-12	5.765E-12	2.854E-11	
Pu-244	Pu-244	9.987E-01	1.000E-01	1.000E-01	1.000E-01	1.000E-01	9.999E-02	9.997E-02	9.991E-02	9.969E-02	9.844E-02	
Pu-244	ΣS(j):		1.000E-01	1.000E-01	1.000E-01	1.000E-01	9.999E-02	9.997E-02	9.991E-02	9.969E-02	9.844E-02	
Pu-240	Cf-252	9.691E-01	0.000E+00	2.524E-20	6.036E-19	1.560E-17	2.151E-16	2.838E-15	2.667E-14	2.937E-13	6.378E-12	
Pu-240	Cm-244	1.000E+00	0.000E+00	1.040E-05	3.005E-05	8.805E-05	1.888E-04	2.688E-04	2.689E-04	2.491E-04	1.610E-04	
Pu-240	Pu-240	1.000E+00	1.000E-01	9.999E-02	9.997E-02	9.989E-02	9.967E-02	9.891E-02	9.678E-02	8.966E-02	5.794E-02	
Pu-240	Pu-244	9.987E-01	0.000E+00	1.059E-05	3.177E-05	1.058E-04	3.172E-04	1.053E-03	3.124E-03	1.002E-02	4.046E-02	
Pu-240	ΣS(j):		1.000E-01	1.000E-01	1.000E-01	1.001E-01	1.002E-01	1.002E-01	1.002E-01	9.992E-02	9.856E-02	

Individual Nuclide Soil Concentration
 Parent Nuclide and Branch Fraction Indicated

Nuclide (j)	Parent (i)	BRF(i)	S(j,t), pCi/g									
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03	5.000E+03	
U-236	Cf-252	9.691E-01	0.000E+00	1.892E-28	1.389E-26	1.275E-24	5.757E-23	2.702E-21	7.791E-20	2.879E-18	3.094E-16	
U-236	Cm-244	1.000E+00	0.000E+00	1.550E-13	1.360E-12	1.386E-11	9.956E-11	6.065E-10	2.197E-09	7.395E-09	2.763E-08	
U-236	Pu-240	1.000E+00	0.000E+00	2.960E-09	8.879E-09	2.958E-08	8.860E-08	2.937E-07	8.673E-07	2.736E-06	1.000E-05	
U-236	Pu-244	9.987E-01	0.000E+00	1.567E-13	1.411E-12	1.567E-11	1.408E-10	1.559E-09	1.388E-08	1.486E-07	3.013E-06	
U-236	U-236	1.000E+00	3.200E+00	3.200E+00	3.200E+00	3.198E+00	3.195E+00	3.184E+00	3.153E+00	3.047E+00	2.505E+00	
U-236	ΣS(j):		3.200E+00	3.200E+00	3.200E+00	3.198E+00	3.195E+00	3.184E+00	3.153E+00	3.047E+00	2.505E+00	
Th-232	Cf-252	9.691E-01	0.000E+00	1.883E-39	4.214E-37	1.346E-34	1.946E-32	3.222E-30	2.854E-28	3.566E-26	1.984E-23	
Th-232	Cm-244	1.000E+00	0.000E+00	2.556E-24	6.772E-23	2.351E-21	5.345E-20	1.230E-18	1.509E-17	1.824E-16	3.870E-15	
Th-232	Pu-240	1.000E+00	0.000E+00	7.302E-20	6.571E-19	7.298E-18	6.562E-17	7.264E-16	6.469E-15	6.928E-14	1.410E-12	
Th-232	Pu-244	9.987E-01	0.000E+00	2.578E-24	6.959E-23	2.577E-21	6.951E-20	2.567E-18	6.876E-17	2.476E-15	2.645E-13	
Th-232	Th-232	1.000E+00	2.800E+01	2.800E+01	2.800E+01	2.800E+01	2.800E+01	2.800E+01	2.800E+01	2.798E+01	2.792E+01	
Th-232	U-236	1.000E+00	0.000E+00	1.579E-10	4.736E-10	1.578E-09	4.733E-09	1.575E-08	4.701E-08	1.540E-07	6.991E-07	
Th-232	ΣS(j):		2.800E+01	2.800E+01	2.800E+01	2.800E+01	2.800E+01	2.800E+01	2.800E+01	2.798E+01	2.792E+01	
Ra-228	Cf-252	9.691E-01	0.000E+00	3.741E-41	2.455E-38	2.403E-35	8.147E-33	2.356E-30	2.560E-28	3.450E-26	1.971E-23	
Ra-228	Cm-244	1.000E+00	0.000E+00	7.536E-26	5.736E-24	5.758E-22	2.793E-20	1.009E-18	1.421E-17	1.793E-16	3.858E-15	
Ra-228	Pu-240	1.000E+00	0.000E+00	2.848E-21	7.254E-20	2.226E-18	3.910E-17	6.160E-16	6.122E-15	6.815E-14	1.406E-12	
Ra-228	Pu-244	9.987E-01	0.000E+00	7.585E-26	5.863E-24	6.213E-22	3.516E-20	2.026E-18	6.337E-17	2.416E-15	2.632E-13	
Ra-228	Ra-228	1.000E+00	2.800E+01	2.482E+01	1.950E+01	8.385E+00	7.521E-01	1.625E-04	5.471E-15	0.000E+00	0.000E+00	
Ra-228	Th-232	1.000E+00	0.000E+00	3.180E+00	8.497E+00	1.961E+01	2.724E+01	2.799E+01	2.799E+01	2.798E+01	2.792E+01	
Ra-228	U-236	1.000E+00	0.000E+00	9.144E-12	7.618E-11	6.612E-10	3.459E-09	1.444E-08	4.571E-08	1.527E-07	6.979E-07	
Ra-228	ΣS(j):		2.800E+01	2.800E+01	2.800E+01	2.800E+01	2.799E+01	2.799E+01	2.799E+01	2.798E+01	2.792E+01	
Th-228	Cf-252	9.691E-01	0.000E+00	1.865E-42	3.410E-39	8.823E-36	5.441E-33	2.093E-30	2.465E-28	3.413E-26	1.967E-23	
Th-228	Cm-244	1.000E+00	0.000E+00	5.173E-27	1.066E-24	2.625E-22	2.097E-20	9.380E-19	1.393E-17	1.784E-16	3.854E-15	
Th-228	Pu-240	1.000E+00	0.000E+00	2.417E-22	1.634E-20	1.165E-18	3.134E-17	5.804E-16	6.008E-15	6.778E-14	1.404E-12	
Th-228	Pu-244	9.987E-01	0.000E+00	5.200E-27	1.086E-24	2.807E-22	2.600E-20	1.856E-18	6.161E-17	2.396E-15	2.628E-13	
Th-228	Ra-228	1.000E+00	0.000E+00	7.988E+00	1.508E+01	1.145E+01	1.126E+00	2.435E-04	8.199E-15	0.000E+00	0.000E+00	
Th-228	Th-228	1.000E+00	2.800E+01	1.949E+01	9.443E+00	7.475E-01	5.328E-04	5.152E-15	0.000E+00	0.000E+00	0.000E+00	
Th-228	Th-232	1.000E+00	0.000E+00	5.220E-01	3.481E+00	1.580E+01	2.687E+01	2.799E+01	2.799E+01	2.798E+01	2.792E+01	
Th-228	U-236	1.000E+00	0.000E+00	1.021E-12	2.201E-11	4.154E-10	3.041E-09	1.401E-08	4.528E-08	1.523E-07	6.976E-07	
Th-228	ΣS(j):		2.800E+01	2.800E+01	2.800E+01	2.800E+01	2.799E+01	2.799E+01	2.799E+01	2.798E+01	2.792E+01	
Cm-243	Cm-243	9.976E-01	9.976E-02	9.736E-02	9.274E-02	7.822E-02	4.809E-02	8.763E-03	6.762E-05	2.729E-12	0.000E+00	
Cm-243	Cm-243	2.400E-03	2.400E-04	2.342E-04	2.231E-04	1.882E-04	1.157E-04	2.108E-05	1.627E-07	6.565E-15	0.000E+00	
Cm-243	ΣS(j):		1.000E-01	9.760E-02	9.296E-02	7.841E-02	4.821E-02	8.784E-03	6.778E-05	2.735E-12	0.000E+00	
Cm-244	Cm-244	1.000E+00	1.000E-01	9.624E-02	8.915E-02	6.820E-02	3.172E-02	2.176E-03	1.031E-06	2.383E-18	0.000E+00	
Cm-245	Cm-245	1.000E+00	1.000E-01	9.999E-02	9.997E-02	9.991E-02	9.975E-02	9.917E-02	9.754E-02	9.205E-02	6.610E-02	
Cm-245	Cm-245	2.450E-05	2.450E-06	2.450E-06	2.449E-06	2.448E-06	2.444E-06	2.430E-06	2.390E-06	2.255E-06	1.619E-06	
Cm-245	ΣS(j):		1.000E-01	9.999E-02	9.998E-02	9.992E-02	9.975E-02	9.918E-02	9.755E-02	9.205E-02	6.610E-02	
Pu-241	Cm-245	1.000E+00	0.000E+00	4.699E-03	1.344E-02	3.819E-02	7.628E-02	9.852E-02	9.771E-02	9.220E-02	6.621E-02	
Pu-241	Pu-241	1.000E+00	1.000E-01	9.530E-02	8.655E-02	6.179E-02	2.359E-02	8.116E-04	5.347E-08	1.241E-22	0.000E+00	
Pu-241	ΣS(j):		1.000E-01	1.000E-01	9.999E-02	9.998E-02	9.988E-02	9.934E-02	9.771E-02	9.220E-02	6.621E-02	
Pu-241	Cm-245	2.450E-05	0.000E+00	1.151E-07	3.294E-07	9.356E-07	1.869E-06	2.414E-06	2.394E-06	2.259E-06	1.622E-06	
Pu-241	Pu-241	2.450E-05	2.450E-06	2.335E-06	2.121E-06	1.514E-06	5.781E-07	1.989E-08	1.310E-12	3.041E-27	0.000E+00	
Pu-241	ΣS(j):		2.450E-06	2.450E-06	2.450E-06	2.450E-06	2.447E-06	2.434E-06	2.394E-06	2.259E-06	1.622E-06	

Individual Nuclide Soil Concentration
 Parent Nuclide and Branch Fraction Indicated

Nuclide (j)	Parent (i)	BRF(i)	S(j,t), pCi/g								
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03	5.000E+03
Cm-246	Cm-246	9.997E-01	1.000E-01	9.999E-02	9.996E-02	9.985E-02	9.956E-02	9.853E-02	9.566E-02	8.626E-02	4.776E-02
Pu-242	Cm-246	9.997E-01	0.000E+00	1.841E-07	5.523E-07	1.840E-06	5.512E-06	1.827E-05	5.400E-05	1.707E-04	6.419E-04
Pu-242	Pu-242	1.000E+00	1.000E-01	1.000E-01	1.000E-01	1.000E-01	9.999E-02	9.995E-02	9.985E-02	9.950E-02	9.754E-02
Pu-242	ΣS(j):		1.000E-01	1.000E-01	1.000E-01	1.000E-01	9.999E-02	9.997E-02	9.990E-02	9.967E-02	9.819E-02
U-238	Cm-246	9.997E-01	0.000E+00	1.428E-17	1.285E-16	1.427E-15	1.283E-14	1.419E-13	1.260E-12	1.336E-11	2.579E-10
U-238	Pu-242	1.000E+00	0.000E+00	1.551E-11	4.654E-11	1.551E-10	4.650E-10	1.547E-09	4.617E-09	1.510E-08	6.792E-08
U-238	U-238	1.000E+00	8.300E+01	8.300E+01	8.299E+01	8.296E+01	8.288E+01	8.259E+01	8.179E+01	7.903E+01	6.497E+01
U-238	ΣS(j):		8.300E+01	8.300E+01	8.299E+01	8.296E+01	8.288E+01	8.259E+01	8.179E+01	7.903E+01	6.497E+01
U-234	Cm-246	9.997E-01	0.000E+00	1.350E-23	3.644E-22	1.349E-20	3.638E-19	1.341E-17	3.576E-16	1.267E-14	1.237E-12
U-234	Pu-238	1.000E+00	0.000E+00	2.824E-07	8.404E-07	2.725E-06	7.566E-06	1.954E-05	3.218E-05	3.427E-05	2.787E-05
U-234	Pu-242	1.000E+00	0.000E+00	2.199E-17	1.979E-16	2.198E-15	1.977E-14	2.191E-13	1.958E-12	2.123E-11	4.616E-10
U-234	U-234	1.000E+00	8.300E+01	8.300E+01	8.299E+01	8.296E+01	8.287E+01	8.257E+01	8.172E+01	7.881E+01	6.406E+01
U-234	U-238	1.000E+00	0.000E+00	2.353E-04	7.058E-04	2.352E-03	7.048E-03	2.341E-02	6.953E-02	2.237E-01	9.145E-01
U-234	ΣS(j):		8.300E+01	8.300E+01	8.299E+01	8.296E+01	8.288E+01	8.259E+01	8.179E+01	7.903E+01	6.497E+01
Th-230	Cm-246	9.997E-01	0.000E+00	3.038E-29	2.460E-27	3.036E-25	2.457E-23	3.022E-21	2.422E-19	2.883E-17	1.467E-14
Th-230	Pu-238	1.000E+00	0.000E+00	1.273E-12	1.139E-11	1.243E-10	1.062E-09	9.949E-09	5.941E-08	2.745E-07	1.357E-06
Th-230	Pu-242	1.000E+00	0.000E+00	6.598E-23	1.781E-21	6.597E-20	1.780E-18	6.579E-17	1.766E-15	6.411E-14	7.149E-12
Th-230	Th-230	1.000E+00	8.300E+01	8.300E+01	8.300E+01	8.299E+01	8.298E+01	8.292E+01	8.276E+01	8.221E+01	7.913E+01
Th-230	U-234	1.000E+00	0.000E+00	7.471E-04	2.241E-03	7.469E-03	2.239E-02	7.449E-02	2.221E-01	7.246E-01	3.211E+00
Th-230	U-238	1.000E+00	0.000E+00	1.059E-09	9.531E-09	1.059E-07	9.521E-07	1.055E-05	9.427E-05	1.021E-03	2.206E-02
Th-230	ΣS(j):		8.300E+01	8.300E+01	8.300E+01	8.300E+01	8.300E+01	8.300E+01	8.298E+01	8.294E+01	8.237E+01
Ra-226	Cm-246	9.997E-01	0.000E+00	2.632E-33	6.393E-31	2.629E-28	6.373E-26	2.601E-23	6.170E-21	2.338E-18	4.698E-15
Ra-226	Pu-238	1.000E+00	0.000E+00	1.839E-16	4.944E-15	1.804E-13	4.675E-12	1.509E-10	2.890E-09	4.679E-08	7.975E-07
Ra-226	Pu-242	1.000E+00	0.000E+00	7.146E-27	5.787E-25	7.138E-23	5.769E-21	7.065E-19	5.594E-17	6.388E-15	2.661E-12
Ra-226	Ra-226	1.000E+00	1.120E+02	1.119E+02	1.118E+02	1.115E+02	1.105E+02	1.070E+02	9.763E+01	7.086E+01	1.136E+01
Ra-226	Th-230	1.000E+00	0.000E+00	3.595E-02	1.078E-01	3.587E-01	1.071E+00	3.513E+00	1.006E+01	2.870E+01	6.835E+01
Ra-226	U-234	1.000E+00	0.000E+00	1.618E-07	1.456E-06	1.616E-05	1.449E-04	1.591E-03	1.384E-02	1.368E-01	1.911E+00
Ra-226	U-238	1.000E+00	0.000E+00	1.529E-13	4.128E-12	1.527E-10	4.112E-09	1.508E-07	3.958E-06	1.331E-04	1.012E-02
Ra-226	ΣS(j):		1.120E+02	1.120E+02	1.120E+02	1.118E+02	1.115E+02	1.105E+02	1.077E+02	9.970E+01	8.163E+01
Pb-210	Cm-246	9.997E-01	0.000E+00	1.357E-35	9.806E-33	1.304E-29	8.728E-27	9.216E-24	3.921E-21	2.012E-18	4.564E-15
Pb-210	Pb-210	1.000E+00	3.330E+02	3.228E+02	3.033E+02	2.440E+02	1.310E+02	1.487E+01	2.964E-02	1.049E-11	0.000E+00
Pb-210	Pu-238	1.000E+00	0.000E+00	1.421E-18	1.133E-16	1.325E-14	9.245E-13	7.204E-11	2.220E-09	4.374E-08	7.901E-07
Pb-210	Pu-242	1.000E+00	0.000E+00	4.419E-29	1.063E-26	4.218E-24	9.290E-22	2.841E-19	3.827E-17	5.657E-15	2.601E-12
Pb-210	Ra-226	1.000E+00	0.000E+00	3.427E+00	9.965E+00	2.985E+01	6.738E+01	1.035E+02	9.906E+01	7.191E+01	1.152E+01
Pb-210	Th-230	1.000E+00	0.000E+00	5.530E-04	4.874E-03	5.043E-02	3.753E-01	2.444E+00	9.042E+00	2.796E+01	6.824E+01
Pb-210	U-234	1.000E+00	0.000E+00	1.664E-09	4.422E-08	1.552E-06	3.627E-05	8.841E-04	1.123E-02	1.289E-01	1.894E+00
Pb-210	U-238	1.000E+00	0.000E+00	1.181E-15	9.446E-14	1.117E-11	8.048E-10	7.024E-08	2.938E-06	1.215E-04	9.965E-03
Pb-210	ΣS(j):		3.330E+02	3.262E+02	3.133E+02	2.739E+02	1.988E+02	1.208E+02	1.081E+02	1.000E+02	8.167E+01
Cm-247	Cm-247	1.000E+00	1.000E-01	1.000E-01	1.000E-01	1.000E-01	1.000E-01	9.999E-02	9.996E-02	9.987E-02	9.936E-02
Co-57	Co-57	1.000E+00	2.500E+01	9.819E+00	1.515E+00	2.184E-03	1.666E-11	6.460E-40	0.000E+00	0.000E+00	0.000E+00
Co-60	Co-60	1.000E+00	2.500E+01	2.192E+01	1.685E+01	6.710E+00	4.833E-01	4.849E-05	1.824E-16	0.000E+00	0.000E+00

Individual Nuclide Soil Concentration
 Parent Nuclide and Branch Fraction Indicated

Nuclide (j)	Parent (i)	BRF(i)	S(j,t), pCi/g									
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03	5.000E+03	
Cs-134	Cs-134	1.000E+00	2.500E+01	1.786E+01	9.119E+00	8.670E-01	1.043E-03	6.291E-14	3.854E-43	0.000E+00	0.000E+00	
Cs-135	Cs-135	1.000E+00	2.500E+01	2.500E+01	2.500E+01	2.500E+01	2.500E+01	2.498E+01	2.495E+01	2.484E+01	2.421E+01	
Cs-137	Cs-137	1.000E+00	2.500E+01	2.443E+01	2.333E+01	1.984E+01	1.250E+01	2.479E+00	2.437E-02	2.296E-09	0.000E+00	
Eu-152	Eu-152	7.208E-01	1.802E+01	1.711E+01	1.542E+01	1.071E+01	3.787E+00	9.940E-02	3.024E-06	4.698E-22	0.000E+00	
Eu-152	Eu-152	2.792E-01	6.980E+00	6.626E+00	5.972E+00	4.150E+00	1.467E+00	3.850E-02	1.171E-06	1.820E-22	0.000E+00	
Eu-152	ΣS(j):		2.500E+01	2.373E+01	2.139E+01	1.486E+01	5.253E+00	1.379E-01	4.196E-06	6.518E-22	0.000E+00	
Gd-152	Eu-152	2.792E-01	0.000E+00	4.365E-14	1.244E-13	3.493E-13	6.804E-13	8.566E-13	8.610E-13	8.597E-13	8.526E-13	
Gd-152	Gd-152	1.000E+00	2.500E+01	2.500E+01	2.500E+01	2.500E+01	2.500E+01	2.499E+01	2.498E+01	2.495E+01	2.474E+01	
Gd-152	ΣS(j):		2.500E+01	2.500E+01	2.500E+01	2.500E+01	2.500E+01	2.499E+01	2.498E+01	2.495E+01	2.474E+01	
Eu-154	Eu-154	1.000E+00	2.500E+01	2.311E+01	1.974E+01	1.137E+01	2.353E+00	9.485E-03	1.365E-09	1.546E-33	0.000E+00	
Eu-155	Eu-155	1.000E+00	2.500E+01	2.174E+01	1.644E+01	6.180E+00	3.777E-01	2.132E-05	1.550E-17	0.000E+00	0.000E+00	
Fe-55	Fe-55	1.000E+00	2.500E+01	1.934E+01	1.157E+01	1.919E+00	1.130E-02	1.772E-10	8.895E-33	0.000E+00	0.000E+00	
Gd-153	Gd-153	1.000E+00	2.500E+01	8.783E+00	1.084E+00	7.158E-04	5.867E-13	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Ge-68	Ge-68	1.000E+00	2.500E+01	1.027E+01	1.733E+00	3.423E-03	6.419E-11	5.795E-38	0.000E+00	0.000E+00	0.000E+00	
H-3	H-3	1.000E+00	1.000E+03	9.355E+02	8.188E+02	5.135E+02	1.354E+02	1.274E+00	2.068E-06	1.126E-26	0.000E+00	
I-129	I-129	1.000E+00	1.000E-02	9.953E-03	9.859E-03	9.537E-03	8.675E-03	6.227E-03	2.414E-03	8.761E-05	5.163E-13	
K-40	K-40	1.000E+00	8.000E+02	7.999E+02	7.997E+02	7.991E+02	7.973E+02	7.910E+02	7.732E+02	7.141E+02	4.534E+02	
Mn-54	Mn-54	1.000E+00	2.500E+01	1.112E+01	2.200E+00	7.576E-03	6.957E-10	1.633E-34	0.000E+00	0.000E+00	0.000E+00	
Na-22	Na-22	1.000E+00	2.500E+01	1.915E+01	1.124E+01	1.739E+00	8.414E-03	6.628E-11	4.659E-34	0.000E+00	0.000E+00	
Nb-93m	Nb-93m	1.000E+00	2.500E+01	2.376E+01	2.145E+01	1.502E+01	5.417E+00	1.528E-01	5.704E-06	1.814E-21	0.000E+00	
Nb-94	Nb-94	1.000E+00	2.500E+01	2.500E+01	2.500E+01	2.499E+01	2.497E+01	2.489E+01	2.467E+01	2.390E+01	1.997E+01	
Ni-59	Ni-59	1.000E+00	2.500E+01	2.500E+01	2.500E+01	2.500E+01	2.499E+01	2.497E+01	2.490E+01	2.466E+01	2.336E+01	
Ni-63	Ni-63	1.000E+00	2.500E+01	2.482E+01	2.446E+01	2.326E+01	2.013E+01	1.214E+01	2.862E+00	1.821E-02	5.128E-15	
Pm-147	Pm-147	1.000E+00	2.500E+01	1.920E+01	1.132E+01	1.780E+00	9.026E-03	8.376E-11	9.403E-34	0.000E+00	0.000E+00	
Sm-147	Pm-147	1.000E+00	0.000E+00	1.437E-10	3.387E-10	5.747E-10	6.185E-10	6.186E-10	6.183E-10	6.174E-10	6.123E-10	
Sm-147	Sm-147	1.000E+00	2.500E+01	2.500E+01	2.500E+01	2.500E+01	2.500E+01	2.499E+01	2.498E+01	2.495E+01	2.474E+01	
Sm-147	ΣS(j):		2.500E+01	2.500E+01	2.500E+01	2.500E+01	2.500E+01	2.499E+01	2.498E+01	2.495E+01	2.474E+01	
Pu-238	Pu-238	1.000E+00	1.000E-01	9.921E-02	9.766E-02	9.240E-02	7.889E-02	4.537E-02	9.339E-03	3.696E-05	6.895E-19	

Individual Nuclide Soil Concentration
 Parent Nuclide and Branch Fraction Indicated

Nuclide (j)	Parent (i)	BRF(i)	S(j,t), pCi/g								
			t= 0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03	5.000E+03
Ru-106	Ru-106	1.000E+00	2.500E+01	1.257E+01	3.177E+00	2.580E-02	2.749E-08	3.431E-29	0.000E+00	0.000E+00	0.000E+00
Sb-125	Sb-125	1.000E+00	2.500E+01	1.946E+01	1.180E+01	2.047E+00	1.371E-02	3.379E-10	6.172E-32	0.000E+00	0.000E+00
Sm-151	Sm-151	1.000E+00	2.500E+01	2.481E+01	2.443E+01	2.315E+01	1.984E+01	1.157E+01	2.479E+00	1.128E-02	4.672E-16
Sr-90	Sr-90	1.000E+00	2.500E+01	2.441E+01	2.327E+01	1.968E+01	1.220E+01	2.287E+00	1.914E-02	1.026E-09	0.000E+00
Tc-99	Tc-99	1.000E+00	1.000E+00	9.895E-01	9.689E-01	9.000E-01	7.290E-01	3.487E-01	4.242E-02	2.661E-05	1.335E-23
Tl-204	Tl-204	1.000E+00	2.500E+01	2.059E+01	1.397E+01	3.594E+00	7.430E-02	9.435E-08	1.344E-24	0.000E+00	0.000E+00
Zn-65	Zn-65	1.000E+00	2.500E+01	8.854E+00	1.111E+00	7.765E-04	7.490E-13	3.503E-44	0.000E+00	0.000E+00	0.000E+00

BRF(i) is the branch fraction of the parent nuclide.

RESCALC.EXE execution time = 94.36 seconds