

Parent Dose Report

Title Fingerboards, 20 years dust deposition, t=0y PRELIMINARY

File FB OPERATIONS.ROF

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Dose Conversion Factor (and Related) Parameter Summary
 Current Library: DCFPAK3.02
 Default Library: DCFPAK3.02

Menu	Parameter	Current Value	Default	Parameter Name
DCSF	DCF's for external ground radiation, (mSv/yr)/(Bq/g)			
DCSF	Ac-228 (Source: DCFPAK3.02)	1.363E+00	1.363E+00	DCFEXT (1)
DCSF	At-218 (Source: DCFPAK3.02)	1.505E-05	1.505E-05	DCFEXT (2)
DCSF	Bi-210 (Source: DCFPAK3.02)	1.479E-03	1.479E-03	DCFEXT (3)
DCSF	Bi-212 (Source: DCFPAK3.02)	1.691E-01	1.691E-01	DCFEXT (4)
DCSF	Bi-214 (Source: DCFPAK3.02)	2.469E+00	2.469E+00	DCFEXT (5)
DCSF	Hg-206 (Source: DCFPAK3.02)	1.656E-01	1.656E-01	DCFEXT (6)
DCSF	Pa-234 (Source: DCFPAK3.02)	2.236E+00	2.236E+00	DCFEXT (7)
DCSF	Pa-234m (Source: DCFPAK3.02)	3.397E-02	3.397E-02	DCFEXT (8)
DCSF	Pb-210 (Source: DCFPAK3.02)	5.654E-04	5.654E-04	DCFEXT (9)
DCSF	Pb-212 (Source: DCFPAK3.02)	1.706E-01	1.706E-01	DCFEXT (10)
DCSF	Pb-214 (Source: DCFPAK3.02)	3.397E-01	3.397E-01	DCFEXT (11)
DCSF	Po-210 (Source: DCFPAK3.02)	1.525E-05	1.525E-05	DCFEXT (12)
DCSF	Po-212 (Source: DCFPAK3.02)	0.000E+00	0.000E+00	DCFEXT (13)
DCSF	Po-214 (Source: DCFPAK3.02)	1.298E-04	1.298E-04	DCFEXT (14)
DCSF	Po-216 (Source: DCFPAK3.02)	2.398E-05	2.398E-05	DCFEXT (15)
DCSF	Po-218 (Source: DCFPAK3.02)	2.494E-09	2.494E-09	DCFEXT (16)
DCSF	Ra-224 (Source: DCFPAK3.02)	1.338E-02	1.338E-02	DCFEXT (17)
DCSF	Ra-226 (Source: DCFPAK3.02)	8.584E-03	8.584E-03	DCFEXT (18)
DCSF	Ra-228 (Source: DCFPAK3.02)	1.777E-05	1.777E-05	DCFEXT (19)
DCSF	Rn-218 (Source: DCFPAK3.02)	1.151E-03	1.151E-03	DCFEXT (20)
DCSF	Rn-220 (Source: DCFPAK3.02)	9.389E-04	9.389E-04	DCFEXT (21)
DCSF	Rn-222 (Source: DCFPAK3.02)	5.757E-04	5.757E-04	DCFEXT (22)
DCSF	Th-228 (Source: DCFPAK3.02)	1.959E-03	1.959E-03	DCFEXT (23)
DCSF	Th-230 (Source: DCFPAK3.02)	2.989E-04	2.989E-04	DCFEXT (24)
DCSF	Th-232 (Source: DCFPAK3.02)	1.292E-04	1.292E-04	DCFEXT (25)
DCSF	Th-234 (Source: DCFPAK3.02)	6.259E-03	6.259E-03	DCFEXT (26)
DCSF	Tl-206 (Source: DCFPAK3.02)	3.454E-03	3.454E-03	DCFEXT (27)
DCSF	Tl-208 (Source: DCFPAK3.02)	5.857E+00	5.857E+00	DCFEXT (28)
DCSF	Tl-210 (Source: DCFPAK3.02)	4.532E+00	4.532E+00	DCFEXT (29)
DCSF	U-234 (Source: DCFPAK3.02)	9.341E-05	9.341E-05	DCFEXT (30)
DCSF	U-238 (Source: DCFPAK3.02)	4.630E-05	4.630E-05	DCFEXT (31)

Current Library: DOE STD-1196-2011 (Reference Person)
 Default Library: DOE STD-1196-2011 (Reference Person)

Menu	Parameter	Current Value	Default	Parameter Name
DCSF	Dose conversion factors for inhalation, mSv/Bq:			
DCSF	Pb-210+D	6.176E-03	6.176E-03	DCF2 (1)
DCSF	Pb-210+D1	6.174E-03	6.174E-03	DCF2 (2)
DCSF	Po-210	4.681E-03	4.681E-03	DCF2 (3)
DCSF	Ra-226+D	1.033E-02	1.033E-02	DCF2 (4)

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

Current Library: DOE STD-1196-2011 (Reference Person)

Default Library: DOE STD-1196-2011 (Reference Person)

Menu	Parameter	Current Value	Default	Parameter Name
DCSF	Ra-228+D	1.712E-02	1.712E-02	DCF2 (6)
DCSF	Th-228+D	4.740E-02	4.740E-02	DCF2 (7)
DCSF	Th-230	1.040E-01	1.040E-01	DCF2 (8)
DCSF	Th-232	1.150E-01	1.150E-01	DCF2 (10)
DCSF	U-234	1.010E-02	1.010E-02	DCF2 (11)
DCSF	U-238	8.681E-03	8.681E-03	DCF2 (13)
DCSF	U-238+D	8.690E-03	8.690E-03	DCF2 (14)
DCSF	Dose conversion factors for ingestion, mSv/Bq :			
DCSF	Pb-210+D	1.022E-03	1.022E-03	DCF3 (1)
DCSF	Pb-210+D1	1.022E-03	1.022E-03	DCF3 (2)
DCSF	Po-210	1.750E-03	1.750E-03	DCF3 (3)
DCSF	Ra-226+D	4.533E-04	4.533E-04	DCF3 (4)
DCSF	Ra-228+D	1.601E-03	1.601E-03	DCF3 (6)
DCSF	Th-228+D	2.527E-04	2.527E-04	DCF3 (7)
DCSF	Th-230	2.530E-04	2.530E-04	DCF3 (8)
DCSF	Th-232	2.781E-04	2.781E-04	DCF3 (10)
DCSF	U-234	5.811E-05	5.811E-05	DCF3 (11)
DCSF	U-238	5.241E-05	5.241E-05	DCF3 (13)
DCSF	U-238+D	5.709E-05	5.709E-05	DCF3 (14)



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

Current Library: RESRAD Default Transfer factors

Default Library: RESRAD Default Transfer factors

Menu	Parameter	Current Value	Default	Parameter Name
-t-		-f-	-f-	-f-
	Soil to plant transfer factors:			
TF	Pb-210+D , plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF(1,1)
TF	Pb-210+D , plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF(1,2)
TF	Pb-210+D , plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF(1,3)
TF	Pb-210+D , plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF(1,4)
TF				
TF	Pb-210+D1, plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF(2,1)
TF	Pb-210+D1, plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF(2,2)
TF	Pb-210+D1, plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF(2,3)
TF	Pb-210+D1, plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF(2,4)
TF				
TF	Po-210 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(3,1)
TF	Po-210 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(3,2)
TF	Po-210 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(3,3)
TF	Po-210 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(3,4)
TF				
TF	Ra-226+D , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(4,1)
TF	Ra-226+D , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(4,2)
TF	Ra-226+D , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(4,3)
TF	Ra-226+D , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(4,4)
TF				
TF	Ra-228+D , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(6,1)
TF	Ra-228+D , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(6,2)
TF	Ra-228+D , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(6,3)
TF	Ra-228+D , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(6,4)
TF				
TF	Th-228+D , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(7,1)
TF	Th-228+D , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(7,2)
TF	Th-228+D , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(7,3)
TF	Th-228+D , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(7,4)
TF				
TF	Th-230 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(B,1)
TF	Th-230 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(S,2)
TF	Th-230 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(S,3)
TF	Th-230 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(B,4)
TF				
TF	Th-232 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(10,1)
TF	Th-232 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(10,2)
TF	Th-232 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(10,3)
TF	Th-232 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(10,4)
TF				
TF	U-234 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(11,1)
TF	U-234 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(11,2)
TF	U-234 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(11,3)
TF	U-234 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(11,4)

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

Current Library: RESRAD Default Transfer factors

Default Library: RESRAD Default Transfer factors

Menu	Parameter	Current Value	Default	Parameter Name
TF	U-238 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(13,1)
TF	U-238 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(13,2)
TF	U-238 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(13,3)
TF	U-238 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(13,4)
TF	U-238+D , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(14,1)
TF	U-238+D , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(14,2)
TF	U-238+D , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(14,3)
TF	U-238+D , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(14,4)
TF	intake to meat/milk transfer factors:			
TF	Pb-210+D , beef/livestock-intake ratio, (Bq/kg) / (Bq/d)	8.000E-04	8.000E-04	I_M(1,1)
TF	Pb-210+D , milk/livestock-intake ratio, (Bq/L) / (Bq/d)	3.000E-04	3.000E-04	I_M(1,2)
TF	Pb-210+Dl, beef/livestock-intake ratio, (Bq/kg) / (Bq/d)	8.000E-04	8.000E-04	I_M(2,1)
TF	Pb-210+Dl, milk/livestock-intake ratio, (Bq/L) / (Bq/d)	3.000E-04	3.000E-04	I_M(2,2)
TF	Po-210 , beef/livestock-intake ratio, (Bq/kg) / (Bq/d)	5.000E-03	5.000E-03	I_M(3,1)
TF	Po-210 , milk/livestock-intake ratio, (Bq/L) / (Bq/d)	3.400E-04	3.400E-04	I_M(3,2)
TF	Ra-226+D , beef/livestock-intake ratio, (Bq/kg) / (Bq/d)	1.000E-03	1.000E-03	I_M(4,1)
TF	Ra-226+D , milk/livestock-intake ratio, (Bq/L) / (Bq/d)	1.000E-03	1.000E-03	I_M(4,2)
TF	Ra-228+D , beef/livestock-intake ratio, (Bq/kg) / (Bq/d)	1.000E-03	1.000E-03	I_M(6,1)
TF	Ra-228+D , milk/livestock-intake ratio, (Bq/L) / (Bq/d)	1.000E-03	1.000E-03	I_M(6,2)
TF	Th-228+D , beef/livestock-intake ratio, (Bq/kg) / (Bq/d)	1.000E-04	1.000E-04	I_M(7,1)
TF	Th-228+D , milk/livestock-intake ratio, (Bq/L) / (Bq/d)	5.000E-06	5.000E-06	I_M(7,2)
TF	Th-230 , beef/livestock-intake ratio, (Bq/kg) / (Bq/d)	1.000E-04	1.000E-04	I_M(8,1)
TF	Th-230 , milk/livestock-intake ratio, (Bq/L) / (Bq/d)	5.000E-06	5.000E-06	I_M(8,2)
TF	Th-232 , beef/livestock-intake ratio, (Bq/kg) / (Bq/d)	1.000E-04	1.000E-04	I_M(10,1)
TF	Th-232 , milk/livestock-intake ratio, (Bq/L) / (Bq/d)	5.000E-06	5.000E-06	I_M(10,2)
TF	U-234 , beef/livestock-intake ratio, (Bq/kg) / (Bq/d)	3.400E-04	3.400E-04	I_M(11,1)
TF	U-234 , milk/livestock-intake ratio, (Bq/L) / (Bq/d)	6.000E-04	6.000E-04	I_M(11,2)
TF	U-238 , beef/livestock-intake ratio, (Bq/kg) / (Bq/d)	3.400E-04	3.400E-04	I_M(13,1)
TF	U-238 , milk/livestock-intake ratio, (Bq/L) / (Bq/d)	6.000E-04	6.000E-04	I_M(13,2)
TF	U-238+D , beef/livestock-intake ratio, (Bq/kg) / (Bq/d)	3.400E-04	3.400E-04	I_M(14,1)
TF	U-238+D , milk/livestock-intake ratio, (Bq/L) / (Bq/d)	6.000E-04	6.000E-04	I_M(14,2)

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

Current Library: RESRAD Default Transfer factors

Default Library: RESRAD Default Transfer factors

Menu	Parameter	Current Value	Default	Parameter Name
	Bioaccumulation factors, fresh water, L/kg:			
TF	Pb-210+D, fish	3.000E+02	3.000E+02	BIOFA(1,1)
TF	Pb-210+D, crustacea and mollusks	1.000E+02	1.000E+02	BIOFA(1,2)
TF	Pb-210+D1, fish	3.000E+02	3.000E+02	BIOFA(2,1)
TF	Pb-210+D1, crustacea and mollusks	1.000E+02	1.000E+02	BIOFA(2,2)
TF	Po-210, fish	1.000E+02	1.000E+02	BIOFA(3,1)
TF	Po-210, crustacea and mollusks	2.000E+04	2.000E+04	BIOFA(3,2)
TF	Ra-226+D, fish	5.000E+01	5.000E+01	BIOFA(4,1)
TF	Ra-226+D, crustacea and mollusks	2.500E+02	2.500E+02	BIOFA(4,2)
TF	Ra-228+D, fish	5.000E+01	5.000E+01	BIOFA(6,1)
TF	Ra-228+D, crustacea and mollusks	2.500E+02	2.500E+02	BIOFA(6,2)
TF	Th-228+D, fish	1.000E+02	1.000E+02	BIOFA(7,1)
TF	Th-228+D, crustacea and mollusks	5.000E+02	5.000E+02	BIOFA(7,2)
TF	Th-230, fish	1.000E+02	1.000E+02	BIOFA(B,1)
TF	Th-230, crustacea and mollusks	5.000E+02	5.000E+02	BIOFA(B,2)
TF	Th-232, fish	1.000E+02	1.000E+02	BIOFA(10,1)
TF	Th-232, crustacea and mollusks	5.000E+02	5.000E+02	BIOFA(10,2)
TF	U-234, fish	1.000E+01	1.000E+01	BIOFA(11,1)
TF	U-234, crustacea and mollusks	6.000E+01	6.000E+01	BIOFA(11,2)
TF	U-238, fish	1.000E+01	1.000E+01	BIOFA(13,1)
TF	U-238, crustacea and mollusks	6.000E+01	6.000E+01	BIOFA(13,2)
TF	U-238+D, fish	1.000E+01	1.000E+01	BIOFA(14,1)
TF	U-238+D, crustacea and mollusks	6.000E+01	6.000E+01	BIOFA(14,2)

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Site-Specific Parameter Summary

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
FSTI	Exposure duration for risk	3.000E+01	3.000E+01		ED
FSTI	Basic radiation dose limit (mSv/yr)	2.500E-01	2.500E-01		BRDL
RELTIME	1st release time (years)	0.000E+00			RelTime (1)
CONC	Initial concentration of Pb-210 (Bq/g)	5.040E-02	0.000E+00		SI (1)
CONC	Initial concentration of Po-210 (Bq/g)	5.040E-02	0.000E+00		SI (3)
CONC	Initial concentration of Ra-226 (Bq/g)	5.040E-02	0.000E+00		SI (4)
CONC	Initial concentration of Ra-228 (Bq/g)	8.060E-02	0.000E+00		SI (6)
CONC	Initial concentration of Th-228 (Bq/g)	8.060E-02	0.000E+00		SI (7)
CONC	Initial concentration of Th-230 (Bq/g)	5.040E-02	0.000E+00		SI (8)
CONC	Initial concentration of Th-232 (Bq/g)	8.060E-02	0.000E+00		SI (10)
CONC	Initial concentration of U-234 (Bq/g)	5.040E-02	0.000E+00		SI (11)
CONC	Initial concentration of U-238 (Bq/g)	5.040E-02	0.000E+00		SI (13)
DCLR	Distribution coefficients for Pb-210				
DCLR	Contaminated zone (cm**3/g)	1.000E+02	1.000E+02		DCNUCC (1)
DCLR	Unsaturated zone 1 (cm**3/g)	1.000E+02	1.000E+02		DCNUCU (1,1)
DCLR	Saturated zone (cm**3/g)	1.000E+02	1.000E+02		DCNUCS (1)
DCLR	Bottom sediment in surface water body (cm**3/g)	1.000E+02	1.000E+02		DCNUCSWB (1)
DCLR	Suspended sediment in surface water body (cm**3/g)	1.000E+02	1.000E+02		DCNUCSWS (1)
DCLR	Leach rate constant of Pb-210 (/yr)	0.000E+00	0.000E+00	1.663E-03	Rleach (1,1)
DCLR	Distribution coefficients for Po-210				
DCLR	Contaminated zone (cm**3/g)	1.000E+01	1.000E+01		DCNUCC (3)
DCLR	Unsaturated zone 1 (cm**3/g)	1.000E+01	1.000E+01		DCNUCU (3,1)
DCLR	Saturated zone (cm**3/g)	1.000E+01	1.000E+01		DCNUCS (3)
DCLR	Bottom sediment in surface water body (cm**3/g)	1.000E+01	1.000E+01		DCNUCSWB (3)
DCLR	Suspended sediment in surface water body (cm**3/g)	1.000E+01	1.000E+01		DCNUCSWS (3)
DCLR	Leach rate constant of Po-210 (/yr)	0.000E+00	0.000E+00	1.632E-02	Rleach (1,3)
DCLR	Distribution coefficients for Ra-226				
DCLR	Contaminated zone (cm**3/g)	7.000E+01	7.000E+01		DCNUCC (4)
DCLR	Unsaturated zone 1 (cm**3/g)	7.000E+01	7.000E+01		DCNUCU (4,1)
DCLR	Saturated zone (cm**3/g)	7.000E+01	7.000E+01		DCNUCS (4)
DCLR	Bottom sediment in surface water body (cm**3/g)	7.000E+01	7.000E+01		DCNUCSWB (4)
DCLR	Suspended sediment in surface water body (cm**3/g)	7.000E+01	7.000E+01		DCNUCSWS (4)
DCLR	Leach rate constant of Ra-226 (/yr)	0.000E+00	0.000E+00	2.374E-03	Rleach (1,4)

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Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
DCLR	Distribution coefficients for Ra-228				
DCLR	Contaminated zone (cm**3/g)	7.000E+01	7.000E+01		DCNUCC (6)
DCLR	Unsaturated zone 1 (cm**3/g)	7.000E+01	7.000E+01		DCNUCU (6,1)
DCLR	Saturated zone (cm**3/g)	7.000E+01	7.000E+01		DCNUCS (6)
DCLR	Bottom sediment in surface water body (cm**3/g)	7.000E+01	7.000E+01		DCNUCSWB (6)
DCLR	Suspended sediment in surface water body (cm**3/g)	7.000E+01	7.000E+01		DCNUCSWS (6)
DCLR	Leach rate constant of Ra-228 (/yr)	0.000E+00	0.000E+00	2.374E-03	Rleach(1,6)
DCLR	Distribution coefficients for Th-228				
DCLR	Contaminated zone (cm**3/g)	6.000E+04	6.000E+04		DCNUCC (7)
DCLR	Unsaturated zone 1 (cm**3/g)	6.000E+04	6.000E+04		DCNUCU (7,1)
DCLR	Saturated zone (cm**3/g)	6.000E+04	6.000E+04		DCNUCS (7)
DCLR	Bottom sediment in surface water body (cm**3/g)	6.000E+04	6.000E+04		DCNUCSWB (7)
DCLR	Suspended sediment in surface water body (cm**3/g)	6.000E+04	6.000E+04		DCNUCSWS (7)
DCLR	Leach rate constant of Th-228 (/yr)	0.000E+00	0.000E+00	2.778E-06	Rleach(1,7)
DCLR	Distribution coefficients for Th-230				
DCLR	Contaminated zone (cm**3/g)	6.000E+04	6.000E+04		DCNUCC (8)
DCLR	Unsaturated zone 1 (cm**3/g)	6.000E+04	6.000E+04		DCNUCU (8,1)
DCLR	Saturated zone (cm**3/g)	6.000E+04	6.000E+04		DCNUCS (8)
DCLR	Bottom sediment in surface water body (cm**3/g)	6.000E+04	6.000E+04		DCNUCSWB (8)
DCLR	Suspended sediment in surface water body (cm**3/g)	6.000E+04	6.000E+04		DCNUCSWS (8)
DCLR	Leach rate constant of Th-230 (/yr)	0.000E+00	0.000E+00	2.778E-06	Rleach(1,8)
DCLR	Distribution coefficients for Th-232				
DCLR	Contaminated zone (cm**3/g)	6.000E+04	6.000E+04		DCNUCC (10)
DCLR	Unsaturated zone 1 (cm**3/g)	6.000E+04	6.000E+04		DCNUCU (10,1)
DCLR	Saturated zone (cm**3/g)	6.000E+04	6.000E+04		DCNUCS (10)
DCLR	Bottom sediment in surface water body (cm**3/g)	6.000E+04	6.000E+04		DCNUCSWB (10)
DCLR	Suspended sediment in surface water body (cm**3/g)	6.000E+04	6.000E+04		DCNUCSWS (10)
DCLR	Leach rate constant of Th-232 (/yr)	0.000E+00	0.000E+00	2.778E-06	Rleach(1,10)
DCLR	Distribution coefficients for U-234				
DCLR	Contaminated zone (cm**3/g)	5.000E+01	5.000E+01		DCNUCC (11)
DCLR	Unsaturated zone 1 (cm**3/g)	5.000E+01	5.000E+01		DCNUCU (11,1)
DCLR	Saturated zone (cm**3/g)	5.000E+01	5.000E+01		DCNUCS (11)
DCLR	Bottom sediment in surface water body (cm**3/g)	5.000E+01	5.000E+01		DCNUCSWB (11)
DCLR	Suspended sediment in surface water body (cm**3/g)	5.000E+01	5.000E+01		DCNUCSWS (11)
DCLR	Leach rate constant of U-234 (/yr)	0.000E+00	0.000E+00	3.319E-03	Rleach(1,11)

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Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
	Distribution coefficients for U-238				
DCLR	Contaminated zone (cm**3/g)	5.000E+01	5.000E+01		DCNUCC (13)
DCLR	Unsaturated zone 1 (cm**3/g)	5.000E+01	5.000E+01		DCNUCU (13,1)
DCLR	Saturated zone (cm**3/g)	5.000E+01	5.000E+01		DCNUCS (13)
DCLR	Bottom sediment in surface water body (cm**3/g)	5.000E+01	5.000E+01		DCNUCSWB (13)
DCLR	Suspended sediment in surface water body (cm**3/g)	5.000E+01	5.000E+01		DCNUCSWS (13)
DCLR	Leach rate constant of U-238 (/yr)	0.000E+00	0.000E+00	3.319E-03	Rleach (1,13)
	Storage times of contaminated foodstuffs (days):				
STOR	Surface water	1.000E+00	1.000E+00		STOR_T (1)
STOR	Well water	1.000E+00	1.000E+00		STOR_T (2)
STOR	Fruits, non-leafy vegetables, and grain	1.400E+01	1.400E+01		STOR_T (3)
STOR	Leafy vegetables	1.000E+00	1.000E+00		STOR_T (4)
STOR	Livestock feed - pasture or silage	1.000E+00	1.000E+00		STOR_T (5)
STOR	Livestock feed - grain	4.500E+01	4.500E+01		STOR_T (6)
STOR	Meat and poultry	2.000E+01	2.000E+01		STOR_T (7)
STOR	Milk	1.000E+00	1.000E+00		STOR_T (8)
STOR	Fish	7.000E+00	7.000E+00		STOR_T (9)
STOR	Crustacea and mollusks	7.000E+00	7.000E+00		STOR_T (10)
	Times at which dose/risk are to be reported (yr)				
TIME	Times at which dose/risk are to be reported (yr)	1.000E+00	1.000E+00		T (2)
TIME	Times at which dose/risk are to be reported (yr)	2.000E+01	3.000E+00		T (3)
TIME	Times at which dose/risk are to be reported (yr)	not used	6.000E+00		T (4)
TIME	Times at which dose/risk are to be reported (yr)	not used	1.200E+01		T (5)
TIME	Times at which dose/risk are to be reported (yr)	not used	3.000E+01		T (6)
TIME	Times at which dose/risk are to be reported (yr)	not used	7.500E+01		T (7)
TIME	Times at which dose/risk are to be reported (yr)	not used	1.750E+02		T (8)
TIME	Times at which dose/risk are to be reported (yr)	not used	4.200E+02		T (9)
TIME	Times at which dose/risk are to be reported (yr)	not used	9.700E+02		T (10)
	Precipitation (m/yr)				
SITE	Precipitation (m/yr)	1.000E+00	1.000E+00		PRECIP
	Rainfall Erosion Index				
SITE	Rainfall Erosion Index	1.610E+02	1.600E+02		RAINEROS
	Area of primary contamination (m**2)				
PRCZ	Area of primary contamination (m**2)	1.000E+04	1.000E+04		AREA
	Length parallel to aquifer flow (m)				
PRCZ	Length parallel to aquifer flow (m)	1.000E+02	1.000E+02		LCZPAQ
	Depth of soil mixing layer (m)				
PRCZ	Depth of soil mixing layer (m)	1.500E-01	1.500E-01		DM
	Mass loading of all particulates for release(g/m**3)				
PRCZ	Mass loading of all particulates for release(g/m**3)	1.000E-04	1.000E-04		MLFD
	DepositionVelocityOfAllParticulates for release(m/s)				
PRCZ	DepositionVelocityOfAllParticulates for release(m/s)	1.000E-03	1.000E-03		DEPVEL DUSTT
	Respirable particulates as a fraction of total				
PRCZ	Respirable particulates as a fraction of total	not used	1.000E+00		RESPFRACPC
	DepositionVelocityOfRespirableParticulatesForRe(m/s)				
PRCZ	DepositionVelocityOfRespirableParticulatesForRe(m/s)	not used	1.000E-03		DEPVEL DUST
	Irrigation (m/yr)				
PRCZ	Irrigation (m/yr)	2.000E-01	2.000E-01		RI
	Evapotranspiration coefficient				
PRCZ	Evapotranspiration coefficient	5.000E-01	5.000E-01		EVAPTR
	Runoff coefficient				
PRCZ	Runoff coefficient	2.000E-01	2.000E-01		RUNOFF
	Slope-length-steepness factor of prim. contamination				
PRCZ	Slope-length-steepness factor of prim. contamination	1.040E+00	4.000E-01		SLPLENSTPPC
	Cropping management factor of primary contamination				
PRCZ	Cropping management factor of primary contamination	1.000E-01	3.000E-03		CRPMANGPC
	Conservation practice factor of prim. contamination				
PRCZ	Conservation practice factor of prim. contamination	1.000E+00	1.000E+00		CONVPRACPC
	Fraction of primary contamination that is submerged				
PRCZ	Fraction of primary contamination that is submerged	0.000E+00	0.000E+00		SUBMERGEDF

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Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
PRCZ	Thickness of primary contamination (m)	2.000E+00	2.000E+00		THICK0
PRCZ	Soil erodibility factor of contamination (tons/acre)	4.000E-01	4.000E-01		ERODIBILITYCZ
PRCZ	Density of primary contamination (g/cm**3)	1.500E+00	1.500E+00		DENSCZ
PRCZ	Computed erosion rate of contamination (m/yr)	1.000E-03	1.147E-05		VCZ
PRCZ	Total porosity of primary contamination	4.000E-01	4.000E-01		TPCZ
PRCZ	Field capacity of primary contamination	3.000E-01	3.000E-01		FCCZ
PRCZ	Effective porosity of primary contamination	4.000E-01	4.000E-01		EPCZ
PRCZ	Hydraulic conductivity of prime contamination (m/yr)	1.000E+01	1.000E+01		HCCZ
PRCZ	b parameter of primary contamination	5.300E+00	5.300E+00		BCZ
PRCZ	longitudinal dispersivity of prime contamination (m)	0.000E+00	5.000E-02		ALPHALCZ
PRCZ	Cover depth (m)	0.000E+00	0.000E+00		COVER0
PRCZ	Soil erodibility factor of cover (tons/acre)	not used	4.000E-01		ERODIBILITYCV
PRCZ	Density of cover material (g/cm**3)	not used	1.500E+00		DENSCV
PRCZ	Computed erosion rate of cover material (m/yr)	not used	1.147E-05		VCV
PRCZ	Total porosity of the cover material	not used	4.000E-01		TPCV
PRCZ	Volumetric water content of the cover material	not used	5.000E-02		PH20CV
PSDR	Sediment Delivery Ratio, SOR				
PSDR	from primary contamination to surface water body	not used	0.000E+00		SDRDWELL
PSDR	from primary contamination to non-leafy veg. field	not used	0.000E+00		SDROF (1)
PSDR	from primary contamination to leafy veg. field	not used	0.000E+00		SDROF (2)
PSDR	from primary contamination to pasture	0.000E+00	0.000E+00		SDROF (3)
PSDR	from primary contamination to feed grain field	0.000E+00	0.000E+00		SDROF (4)
PSDR	from primary contamination to surface water body	0.000E+00	1.000E+00		SOR
AGRI	Areal extent of Agricultural Area 1 (m**2)	not used	1.000E+03		AREA0 (1)
AGRI	Fraction of Agri. Area 1 directly over the c.z.	not used	0.000E+00		FAREA_PLANT (1)
AGRI	Evapotranspiration coefficient in Agri. Area 1	not used	5.000E-01		EVAPTRN (1)
AGRI	Runoff coefficient in Agricultural Area 1	not used	2.000E-01		RUNOF (1)
AGRI	Mixing depth/plow layer of Agricultural Area 1	not used	1.500E-01		DPTHMIXG (1)
AGRI	Water filled porosity of soil in Agri. Area 1	not used	3.000E-01		TMOF (1)
AGRI	Computed erosion rate of soil in Agri. Area 1	not used	1.147E-05		EROSN (1)
AGRI	Dry Bulk Density of soil in Agricultural Area 1	not used	1.500E+00		RHO (1)
AGRI	Soil erodibility factor of Agricultural Area 1	not used	4.000E-01		ERODIBILITY (1)
AGRI	Slope-length-steepness factor, Agricultural Area 1	not used	4.000E-01		SLPLENSTP (1)
AGRI	Cropping-management factor of Agricultural Area 1	not used	3.000E-03		CRPMANG (1)
AGRI	Conservation practice factor of Agricultural Area 1	not used	1.000E+00		CONVPRAC (1)
AGRI	Total porosity of soil in Agricultural Area 1	not used	4.000E-01		TPOF (1)
AGRI	Areal extent of Agricultural Area 2 (m**2)	not used	1.000E+03		AREA0 (2)
AGRI	Fraction of Agri. Area 2 directly over the c.z.	not used	0.000E+00		FAREA_PLANT (2)
AGRI	Evapotranspiration coefficient in Agri. Area 2	not used	5.000E-01		EVAPTRN (2)
AGRI	Runoff coefficient in Agricultural Area 2	not used	2.000E-01		RUNOF (2)
AGRI	Mixing depth/plow layer of Agricultural Area 2	not used	1.500E-01		DPTHMIXG (2)
AGRI	Water filled porosity of soil in Agri. Area 2	not used	3.000E-01		TMOF (2)
AGRI	Computed erosion rate of soil in Agri. Area 2	not used	1.147E-05		EROSN (2)
AGRI	Dry Bulk Density of soil in Agricultural Area 2	not used	1.500E+00		RHO (2)
AGRI	Soil erodibility factor of Agricultural Area 2	not used	4.000E-01		ERODIBILITY (2)

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Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
AGRI	Slope-length-steepness factor, Agricultural Area 2	not used	4.000E-01		SLPLENSTP (2)
AGRI	Cropping-management factor of Agricultural Area 2	not used	3.000E-03		CRPMANG (2)
AGRI	Conservation practice factor of Agricultural Area 2	not used	1.000E+00		CONVPRAC (2)
AGRI	Total porosity of soil in Agricultural Area 2	not used	4.000E-01		TPOF (2)
AGRI	Areal extent of Agricultural Area 3 (m**2)	1.000E+04	1.000E+04		AREAO (3)
AGRI	Fraction of Agri. Area 3 directly over the c.z.	1.000E+00	0.000E+00		FAREA_PLANT (3)
AGRI	Evapotranspiration coefficient in Agri. Area 3	5.000E-01	5.000E-01		EVAPTRN (3)
AGRI	Runoff coefficient in Agricultural Area 3	2.000E-01	2.000E-01		RUNOF (3)
AGRI	Mixing depth/plow layer of Agricultural Area 3	1.500E-01	1.500E-01		DPTHMIXG (3)
AGRI	Water filled porosity of soil in Agri. Area 3	3.209E-01	3.000E-01		TMOF (3)
AGRI	Computed erosion rate of soil in Agri. Area 3	1.000E-03	1.147E-05		EROSN (3)
AGRI	Dry Bulk Density of soil in Agricultural Area 3	1.500E+00	1.500E+00		RHOB (3)
AGRI	Soil erodibility factor of Agricultural Area 3	4.000E-01	4.000E-01		ERODIBILITY (3)
AGRI	Slope-length-steepness factor , Agricultural Area 3	1.040E+00	4.000E-01		SLPLENSTP (3)
AGRI	Cropping-management factor of Agricultural Area 3	1.000E-01	3.000E-03		CRPMANG (3)
AGRI	Conservation practice factor of Agricultural Area 3	1.000E+00	1.000E+00		CONVPRAC (3)
AGRI	Total porosity of soil in Agricultural Area 3	not used	4.000E-01		TPOF (3)
AGRI	Areal extent of Agricultural Area 4 (m**2)	1.000E+04	1.000E+04		AREAO (4)
AGRI	Fraction of Agri. Area 4 directly over the c.z.	1.000E+00	0.000E+00		FAREA_PLANT (4)
AGRI	Evapotranspiration coefficient in Agri. Area 4	5.000E-01	5.000E-01		EVAPTRN (4)
AGRI	Runoff coefficient in Agricultural Area 4	2.000E-01	2.000E-01		RUNOF (4)
AGRI	Mixing depth/plow layer of Agricultural Area 4	1.500E-01	1.500E-01		DPTHMIXG (4)
AGRI	Water filled porosity of soil in Agri. Area 4	3.209E-01	3.000E-01		TMOF (4)
AGRI	Computed erosion rate of soil in Agri. Area 4	1.000E-03	1.147E-05		EROSN (4)
AGRI	Dry Bulk Density of soil in Agricultural Area 4	1.500E+00	1.500E+00		RHOB (4)
AGRI	Soil erodibility factor of Agricultural Area 4	4.000E-01	4.000E-01		ERODIBILITY (4)
AGRI	Slope-length-steepness factor , Agricultural Area 4	1.040E+00	4.000E-01		SLPLENSTP (4)
AGRI	Cropping-management factor of Agricultural Area 4	1.000E-01	3.000E-03		CRPMANG (4)
AGRI	Conservation practice factor of Agricultural Area 4	1.000E+00	1.000E+00		CONVPRAC (4)
AGRI	Total porosity of soil in Agricultural Area 4	not used	4.000E-01		TPOF (4)
AIRT	Average annual wind speed (m/sec)	2.000E+00	8.900E-01		WIND
GWTR	convergence criterion for groundwater transport calc	1.000E-03	1.000E-03		EPS
GWTR	Distance from d/g edge of contamination to Well, (m)	0.000E+00	1.000E+02		OFFFLPAQW
GWTR	Contamination to Well c/c distance normal to flow, m1	0.000E+00	0.000E+00		OFFFLNAQW
GWTR	Distance from d/g edge of cz to surface water, (m)	0.000E+00	4.500E+02		OFFFLPAQS
GWTR	Contamination to near edge of swb, c/c normal to flow-	0.000E+01	-1.500E+02		OFFFLNAQSN
GWTR	Contamination to far edge of swb, c/c normal to flow1	5.000E+01	1.500E+02		OFFFLNAQSF
GWTR	Number of main sub zones in contaminated medium		1		NPCM
GWTR	Number of minor sub zones in last main CM sub zone		1		NPCMF
GWTR	Number of main sub zones in primary contamination		1		NPCZ
GWTR	Number of minor sub zones in last main PC sub zone		1		NPCZF
GWTR	Number of main sub zones in submerged prim. contami.		1		NSPCZ
GWTR	Number of minor sub zones in last main SPC sub zone		1		NSPCZF
GWTR	Number of main sub zones in each unsaturated stratum!		1		NPSS
GWTR	Number of minor sub zones in last main UZ sub zone		1		NPSSF

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Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
GWTR	Number of main sub zones in saturated stratum	1	1		NAQS
GWTR	Number of minor sub zones in last main SZ sub zone	1	1		NAQSF
GWTR	Distribution coefficient and longitudinal dispersion!	1	1		
1 = Nuclide specific distrubution coefficients in all subzones. Longitudinal dispersion in all but the subzone of transformation.					
GWTR	Retardation factor flag for groundwater transport	0	0		
0 = (total porosity+ distribution coefficient*dry bulk density) / total porosity					
USZN	Number of unsaturated zone strata	1	1		NS
USZN	Unsat. zone 1, thickness (m)	4.000E+00	4.000E+00		H (1)
USZN	Unsat. zone 1, soil density (g/cm**3)	1.500E+00	1.500E+00		DENSUZ (1)
USZN	Unsat. zone 1, total porosity	4.000E-01	4.000E-01		TPUZ (1)
USZN	Unsat. zone 1, effective porosity	2.000E-01	2.000E-01		EPUZ (1)
USZN	Unsat. zone 1, field capacity	3.000E-01	3.000E-01		FCUZ (1)
USZN	Unsat. zone 1, hydraulic conductivity (m/yr)	1.000E+01	1.000E+01		HCUZ (1)
USZN	Unsat. zone 1, soil-specific b parameter	5.300E+00	5.300E+00		BUZ (1)
USZN	Unsat. zone 1, longitudinal dispersivity (m)	0.000E+00	1.000E-01		ALPHALU (1)
SZNE	Well pump intake depth (m below water table)	1.000E+01	1.000E+01		DWIBWT
SZNE	Depth of aquifer contributing to surface water body	1.000E+01	5.000E+00		DPTHAQSW
SZNE	Thickness of saturated zone (m)	1.000E+02	1.000E+02		DPTHAQ
SZNE	Density of saturated zone (g/cm**3)	1.500E+00	1.500E+00		DENSAQ
SZNE	Saturated zone total porosity	4.000E-01	4.000E-01		TPSZ
SZNE	Saturated zone effective porosity	2.000E-01	2.000E-01		EPSZ
SZNE	Saturated zone hydraulic conductivity (m/yr)	1.000E+02	1.000E+02		HCSZ
SZNE	Saturated zone hydraulic gradient to well	2.000E-02	2.000E-02		HGW
SZNE	Satur. zone hydraulic gradient to surface water body	2.000E-02	2.000E-02		HGSW
SZNE	longitudinal dispersivity to well (m)	0.000E+00	3.000E+00		ALPHALOW
SZNE	longitudinal dispersivity to SWB (m)	0.000E+00	1.000E+01		ALPHALOSW
SZNE	lateral (horizontal) dispersivity to well (m)	0.000E+00	4.000E-01		ALPHATW
SZNE	lateral (horizontal) dispersivity to SWB (m)	0.000E+00	1.000E+00		ALPHATSW
SZNE	lateral (vertical) dispersivity to well (m)	not used	2.000E-02		ALPHAVW
SZNE	lateral (vertical) dispersivity to SWB (m)	not used	6.000E-02		ALPHAVSW
SZNE	Irrigation rate over aquifer to well (m/yr)	0.000E+00	0.000E+00		RIAQW
SZNE	Irrigation rate over aquifer to SWB (m/yr)	0.000E+00	0.000E+00		RIAQSW
SZNE	Evapotranspiration coefficient over aquifer to well	1.000E+00	1.000E+00		EVAPTRAQW
SZNE	Evapotranspiration coefficient over aquifer to SWB	1.000E+00	1.000E+00		EVAPTRAQSW
SZNE	Runoff coefficient over aquifer to well	1.000E+00	1.000E+00		RUNOFFAQW
SZNE	Runoff coefficient over aquifer to SWB	1.000E+00	1.000E+00		RUNOFFAQSW
SZNE	Concentration of mobile colloids in the aquifer	0.000E+00	0.000E+00		CCOL
SZNE	Water - Soil Distribution coefficient of colloids	0.000E+00	0.000E+00		K1Co1
SZNE	Water - Mobile Colloids Distribution coefficient	0.000E+00	0.000E+00		K3Co1
WTRU	Drinking water intake (L/yr)	not used	5.100E+02		DWI
WTRU	Fraction of drinking water from surface water	not used	0.000E+00		FSWD
WTRU	Fraction of drinking water from well water	not used	1.000E+00		FWWD
WTRU	Fraction of household water from surface water	0.000E+00	0.000E+00		FSWHH
WTRU	Fraction of household water from well water	1.000E+00	1.000E+00		FWWHH

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WTRU	Livestock water intake for meat 1 (L/day)	7.000E+01	5.000E+01		LWI (1)
WTRU	Fraction of livestock water 1 from surface water	0.000E+00	0.000E+00		FSWL (1)
WTRU	Fraction of livestock water 1 from well water	1.000E+00	1.000E+00		FWWL (1)
WTRU	Livestock water intake for milk (L/day)	1.600E+02	1.600E+02		LWI (2)
WTRU	Fraction of dairy cow water from surface water	0.000E+00	0.000E+00		FSWL (2)
WTRU	Fraction of dairy cow water from well water	1.000E+00	1.000E+00		FWWL (2)
WTRU	Irrigation rate in Agricultural Area 1 (m/yr)	not used	2.000E-01		RIRRIG (1)
WTRU	Fraction of irrigation water 1 from surface water	not used	0.000E+00		FSWIR (1)
WTRU	Fraction of irrigation water 1 from well water	not used	1.000E+00		FWWIR (1)
WTRU	Irrigation rate in Agricultural Area 2 (m/yr)	not used	2.000E-01		RIRRIG (2)
WTRU	Fraction of irrigation water 2 from surface water	not used	0.000E+00		FSWIR (2)
WTRU	Fraction of irrigation water 2 from well water	not used	1.000E+00		FWWIR (2)
WTRU	Irrigation rate in Agricultural Area 3 (m/yr)	1.600E-02	2.000E-01		RIRRIG (3)
WTRU	Fraction of irrigation water 3 from surface water	0.000E+00	0.000E+00		FSWIR (3)
WTRU	Fraction of irrigation water 3 from well water	1.000E+00	1.000E+00		FWWIR (3)
WTRU	Irrigation rate in Agricultural Area 4 (m/yr)	1.600E-02	2.000E-01		RIRRIG (4)
WTRU	Fraction of irrigation water 4 from surface water	0.000E+00	0.000E+00		FSWIR (4)
WTRU	Fraction of irrigation water 4 from well water	1.000E+00	1.000E+00		FWWIR (4)
WTRU	Irrigation rate in Offsite dwelling site (m/yr)	not used	2.000E-01		RIRRIGDWELL
WTRU	Fraction of irrigation water from surface water	not used	0.000E+00		FSWIRDWELL
WTRU	Fraction of irrigation water from well water	not used	1.000E+00		FWWIRDWELL
WTRU	Well pumping rate (m**3/yr)	2.500E+02	5.100E+03		UW
SWBY	Surface area of water in surface water body, m**2	9.000E+04	9.000E+04		ALAKE
SWBY	Volume of surface water body, m**3	1.500E+05	1.500E+05		VLAKE
SWBY	Potential evaporation, m/y	1.000E+00	1.000E+00		EVAPOT
SWBY	Stream outflow as a fraction of seepage+stm outflows	9.983E-01	9.983E-01		FSTMFLOW
SWBY	Use inflow ratio for outflow ratio, 1 yes, 0 no	1	1		FSTMFLOWIN
SWBY	Settling velocity of suspended sediments, cm/s	1.000E-01	1.000E-01		Vsettle
SWBY	Dry bulk density of bottom sediments, g/cm**3	1.500E+00	1.500E+00		RhobSed
SWBY	Thickness of bottom sediment absorbing nuclides, m	0.000E+00	5.000E-02		ThickSed
SWBY	Number of distinct catchments	1	1		NCATCH
SWBY	Catchment 1, smaller X coordinate (m)	-4.500E+02	-1.450E+03		CATCHXY (1,1)
SWBY	Catchment 1, larger X coordinate (m)	5.500E+02	1.550E+03		CATCHXY (2,1)
SWBY	Catchment 1, smaller Y coordinate (m)	-9.010E+02	-2.450E+03		CATCHXY (3,1)
SWBY	Catchment 1, larger Y coordinate (m)	9.900E+01	5.500E+02		CATCHXY (4,1)
SWBY	Catchment 1, area, rn**2	1.000E+06	9.000E+06		AREACA (1)
SWBY	Catchment 1, runoff coefficient	2.000E-01	2.000E-01		RUNOFFCA (1)
SWBY	Catchment 1, soil erodibility factor, tons/acre	4.000E-01	4.000E-01		ERODIBILITYCA (1)
SWBY	Catchment 1, Slope-length-steepness factor	4.000E-01	4.000E-01		SLPLENSTPCA (1)
SWBY	Catchment 1, Cover and management factor	3.000E-03	3.000E-03		CRPMANGCA (1)
SWBY	Catchment 1, support practice factor	1.000E+00	1.000E+00		CONVPRACCA (1)
SWBY	Catchment 1, sediment delivery ratio	0.000E+00	2.121E-01		SDRCA (1)
SWBY	Catchment 1, use SRO - Area correlation, 1 yes, 0 no	0	1		SDRACOR
SWBY	Catchment 1, deposited radionuclide delivery ratio	0.000E+00	2.000E-02		DDRCA (1)
SWBY	Approximate deaia on catchment by release	yes	yes		ComputeDep

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Title Fingerboards, 20 years dust deposition, t=0y PRELIMINARY

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Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
INGE	Fish consumption (kg/yr)	not used	5.400E+00		DFI (1)
INGE	Fraction of Fish from affected area	not used	5.000E-01		FFISH (1)
INGE	Other Aquatic food consumption (kg/yr)	not used	9.000E-01		DFI (2)
INGE	Fraction of Aquatic food from affected area	not used	5.000E-01		FFISH (2)
INGE	Non-Leafy vegetables consumption (kg/yr)	not used	1.600E+02		DVI (1)
INGE	Fraction of vegetable 1 from affected area	not used	5.000E-01		FVEG (1)
INGE	Leafy vegetable consumption (kg/yr)	not used	1.400E+01		DVI (2)
INGE	Fraction of vegetable 2 from affected area	not used	5.000E-01		FVEG (2)
INGE	Meat 1 consumption (kg/yr)	6.300E+01	6.300E+01		DMI (1)
INGE	Fraction of meat 1 from affected area	1.000E+00	1.000E+00		FMEMI (1)
INGE	Milk consumption (L/yr)	9.200E+01	9.200E+01		DMI (2)
INGE	Fraction of milk from affected area	1.000E+00	1.000E+00		FMEMI (2)
INGE	Soil ingestion rate (g/yr)	not used	3.650E+01		SOIL
VEGE	Wet weight crop yield for Non-Leafy (kg/m**2)	not used	7.000E-01		YIELD (1)
VEGE	Growing Season for Non-Leafy (years)	not used	1.700E-01		GROWTIME (1)
VEGE	Translocation Factor for Non-Leafy	not used	1.000E-01		FOLI F (1)
VEGE	Weathering Removal Constant for Non-Leafy	not used	2.000E+01		RWEATHER (1)
VEGE	Foliar Interception Fraction for dust Non-Leafy	not used	2.500E-01		FINTCEPT (1, 1)
VEGE	Foliar Intercept-n Fract-n for irrigation Non-Leafy	not used	2.500E-01		FINTCEPT (1, 2)
VEGE	Depth of roots for Non-Leafy (m)	not used	1.200E+00		DROOT (1)
VEGE	Wet weight crop yield for Leafy (kg/m**2)	not used	1.500E+00		YIELD (2)
VEGE	Growing Season for Leafy (years)	not used	2.500E-01		GROWTIME (2)
VEGE	Translocation Factor for Leafy	not used	1.000E+00		FOLI F (2)
VEGE	Weathering Removal Constant for Leafy	not used	2.000E+01		RWEATHER (2)
VEGE	Foliar Interception Fraction for dust Leafy	not used	2.500E-01		FINTCEPT (2, 1)
VEGE	Foliar Intercept-n Fract-n for irrigation Leafy	not used	2.500E-01		FINTCEPT (2, 2)
VEGE	Depth of roots for Leafy (m)	not used	9.000E-01		DROOT (2)
VEGE	Wet weight crop yield for Pasture (kg/m**2)	1.100E+00	1.100E+00		YIELD (3)
VEGE	Growing Season for Pasture (years)	8.000E-02	8.000E-02		GROWTIME (3)
VEGE	Translocation Factor for Pasture	1.000E+00	1.000E+00		FOLI F (3)
VEGE	Weathering Removal Constant for Pasture	2.000E+01	2.000E+01		RWEATHER (3)
VEGE	Foliar Interception Fraction for dust Pasture	2.500E-01	2.500E-01		FINTCEPT (3, 1)
VEGE	Foliar Intercept-n Fract-n for irrigation Pasture	2.500E-01	2.500E-01		FINTCEPT (3, 2)
VEGE	Depth of roots for Pasture (m)	9.000E-01	9.000E-01		DROOT (3)
VEGE	Wet weight crop yield for Grain (kg/m**2)	1.100E+00	7.000E-01		YIELD (4)
VEGE	Growing Season for Grain (years)	8.000E-02	1.700E-01		GROWTIME (4)
VEGE	Translocation Factor for Grain	1.000E+00	1.000E-01		FOLI F (4)
VEGE	Weathering Removal Constant for Grain	2.000E+01	2.000E+01		RWEATHER (4)
VEGE	Foliar Interception Fraction for dust Grain	2.500E-01	2.500E-01		FINTCEPT (4, 1)
VEGE	Foliar Intercept-n Fract-n for irrigation Grain	2.500E-01	2.500E-01		FINTCEPT (4, 2)
VEGE	Depth of roots for Grain (m)	9.000E-01	1.200E+00		DROOT (4)
LINT	Feed 1 intake by livestock 1 (kg/day)	1.400E+01	1.400E+01		LFI (1, 1)
LINT	Soil intake with feed 1 by livestock 1 (kg/day)	1.000E-01	1.000E-01		LSI (1, 1)
LINT	Feed 1 intake by dairy cow (kg/day)	4.400E+01	4.400E+01		LFI (2, 1)
LINT	Soil intake with feed 1 by dairy cow (kg/day)	4.000E-01	4.000E-01		LSI (2, 1)

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Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
LINT	Feed 2 intake by livestock 1 (kg/day)	5.400E+01	5.400E+01		LFI(1,2)
LINT	Soil intake with feed 2 by livestock 1 (kg/day)	4.000E-01	4.000E-01		LSI(1,2)
LINT	Feed 2 intake by dairy cow (kg/day)	1.100E+01	1.100E+01		LFI(2,2)
LINT	Soil intake with feed 2 by dairy cow (kg/day)	1.000E-01	1.000E-01		LSI(2,2)
INHE	Inhalation rate (m**3/yr)	not used	8.400E+03		INHALR
INHE	Mass loading of all particulates from Primary contam	1.000E-04	1.000E-04		MLFD
INHE	Respirable particulates as a fraction of total	not used	1.000E+00		RESPFRACPC
INHE	Offsite mass loading same as onsite mass loading?	not used			SAMEMLRF
INHE	Total mass loading at agricultural area 1 (g/m**3)	not used	1.000E-04		MLTOTOF(1)
INHE	Respirable fraction at agricultural area 1	not used	1.000E+00		RESPFRACOF(1)
INHE	Total mass loading at agricultural area 2 (g/m**3)	not used	1.000E-04		MLTOTOF(2)
INHE	Respirable fraction at agricultural area 2	not used	1.000E+00		RESPFRACOF(2)
INHE	Total mass loading at agricultural area 3 (g/m**3)	not used	1.000E-04		MLTOTOF(3)
INHE	Respirable fraction at agricultural area 3	not used	1.000E+00		RESPFRACOF(3)
INHE	Total mass loading at agricultural area 4 (g/m**3)	not used	1.000E-04		MLTOTOF(4)
INHE	Respirable fraction at agricultural area 4	not used	1.000E-04		RESPFRACOF(4)
INHE	Total mass loading at offsite dwelling(g/m**3)	not used	1.000E-04		MLTODWELL
INHE	Respirable fraction at offsite dwelling(g/m**3)	not used	1.000E+00		RESPFRACDWELL
INHE	Indoor dust filtration factor, inhalation	not used	4.000E-01		SHF3
INHE	Shielding factor, external gamma	not used	7.000E-01		SHF1
INHE	Shape factor flag, external gamma	not used	1.000E+00	circular	FS
SEXT	Onsite shape factor array (used if non-circular):				
SEXT	Radii of shape factor array (used if non-circular):				
SEXT	Outer annular radius (m), ring 1:	not used	6.000E+00		RAD_SHAPE(1)
SEXT	Outer annular radius (m), ring 2:	not used	1.200E+01		RAD_SHAPE(2)
SEXT	Outer annular radius (m), ring 3:	not used	1.800E+01		RAD_SHAPE(3)
SEXT	Outer annular radius (m), ring 4:	not used	2.400E+01		RAD_SHAPE(4)
SEXT	Outer annular radius (m), ring 5:	not used	3.000E+01		RAD_SHAPE(5)
SEXT	Outer annular radius (m), ring 6:	not used	3.600E+01		RAD_SHAPE(6)
SEXT	Outer annular radius (m), ring 7:	not used	4.200E+01		RAD_SHAPE(7)
SEXT	Outer annular radius (m), ring 8:	not used	4.800E+01		RAD_SHAPE(8)
SEXT	Outer annular radius (m), ring 9:	not used	5.400E+01		RAD_SHAPE(9)
SEXT	Outer annular radius (m), ring 10:	not used	6.000E+01		RAD_SHAPE(10)
SEXT	Outer annular radius (m), ring 11:	not used	6.600E+01		RAD_SHAPE(11)
SEXT	Outer annular radius (m), ring 12:	not used	7.200E+01		RAD_SHAPE(12)

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Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
	Fractions of annular areas within AREA:				
SSEXT	Ring 1	not used	1.000E+00		FRACA (1)
SSEXT	Ring 2	not used	1.000E+00		FRACA (2)
SSEXT	Ring 3	not used	1.000E+00		FRACA (3)
SSEXT	Ring 4	not used	1.000E+00		FRACA (4)
SSEXT	Ring 5	not used	1.000E+00		FRACA (5)
SSEXT	Ring 6	not used	1.000E+00		FRACA (6)
SSEXT	Ring 7	not used	1.000E+00		FRACA (7)
SSEXT	Ring 8	not used	1.000E+00		FRACA (8)
SSEXT	Ring 9	not used	7.700E-01		FRACA (9)
SSEXT	Ring 10	not used	3.700E-01		FRACA (10)
SSEXT	Ring 11	not used	1.700E-01		FRACA (11)
SSEXT	Ring 12	not used	3.100E-02		FRACA (12)
OCCU	Fraction of time spent indoors on contaminated site	not used	0.000E+00		FIND
OCCU	Fraction of time spent outdoors on contaminated site	not used	0.000E+00		FOTD
OCCU	Fraction of time spent indoors in Offsite Dwelling	not used	5.000E-01		FINDDWELL
OCCU	Fraction of time spent outdoors in Offsite Dwelling	not used	1.000E-01		FOTDDWELL
OCCU	Fraction of time spent outdoors in agri. area 1	not used	1.000E-01		OCCUPANCY (1)
OCCU	Fraction of time spent outdoors in agri. area 2	not used	1.000E-01		OCCUPANCY (2)
OCCU	Fraction of time spent outdoors in agri. area 3	not used	1.000E-01		OCCUPANCY (3)
OCCU	Fraction of time spent outdoors in agri. area 4	not used	1.000E-01		OCCUPANCY (4)
RADN	Diffusion coefficient for radon gas (m/sec):				
RADN	in cover material	not used	2.000E-06		DIFCV
RADN	in contaminated zone soil	not used	2.000E-06		DIFCZ
RADN	in fruit , grain and non-leafy vegetable field	not used	2.000E-06		DIFOS (1)
RADN	in leafy vegetable field	not used	2.000E-06		DIFOS (2)
RADN	in pasture	not used	2.000E-06		DIFOS (3)
RADN	in livestock grain field	not used	2.000E-06		DIFOS (4)
RADN	in offsite dwelling site	not used	2.000E-06		DIFOS (5)
RADN	in foundation material	not used	3.000E-07		DIFFL
RADN	Thickness of building foundation (m)	not used	1.800E-01		FLOOR1
RADN	Bulk density of building foundation (g/cm**3)	not used	2.400E+00		DENSFL
RADN	Total porosity of the building foundation	not used	1.000E-01		TFFL
RADN	Volumetric water content of the foundation	not used	3.000E-02		PH2OFL
RADN	Building depth below ground surface (m)	not used	-1.000E+00		DMFL
RADN	Radon vertical dimension of mixing (m)	not used	2.000E+00		HMIX
RADN	Height of the building (room) (m)	not used	2.500E+00		HRM
RADN	Average building air exchange rate (1/hr)	not used	5.000E-01		REXG
RADN	Building interior area factor	not used	0.000E+00		FAI
RADN	Emanating power of Rn-222 gas	not used	2.500E-01		EMANA (1)
RADN	Emanating power of Rn-220 gas	not used	1.500E-01		EMANA (2)
C14	C-14 evasion layer thickness in soil (m)	not used	3.000E-01		DMC
C14	Vertical dimension of mixing for vegetation (m)	not used	1.000E+00		HMIXV
C14	C-14 evasion flux rate from soil (1/sec)	not used	7.000E-07		C14EVSN

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Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
C14	C-12 evasion flux rate from soil (1/sec)	not used	1.000E-10		C12EVSN
C14	Fraction of vegetation carbon from air	not used	9.800E-01		CAIR
C14	Fraction of vegetation carbon from soil	not used	2.000E-02		CSOIL
C12	C-12 concentration in the atmosphere (g/m**3)	not used	1.800E-01		C12AIR
C12	C-12 concentration in contaminated soil (g/g)	not used	3.000E-02		C12CZ
C12	C-12 concentration in water (g/cm**3)	not used	2.000E-05		C12WTR
C12	C-12 concentration in meat 1 (g/g)	not used	2.400E-01		C12MEAT_MILK (1)
C12	C-12 concentration in milk (g/g)	not used	7.000E-02		C12MEAT_MILK (2)
C12	C-12 concentration in vegetable 1 (g/g)	not used	4.000E-01		C12PLANT (1)
C12	C-12 concentration in vegetable 2 (g/g)	not used	9.000E-02		C12PLANT (2)
C12	C-12 concentration in livestock feed 1 (g/g)	not used	9.000E-02		C12PLANT (3)
C12	C-12 concentration in livestock feed 2 (g/g)	not used	4.000E-01		C12PLANT (4)
H3	Humidity in air (g/cm**3)	not used	8.000E+00		HUMID
H3	Mass fraction of water in meat 1 (g/g)	not used	6.000E-01		H2OMEAT_MILK (1)
H3	Mass fraction of water in milk (g/g)	not used	8.800E-01		H2OMEAT_MILK (2)
H3	Mass fraction of water in vegetable 1 (g/g)	not used	8.000E-01		H2OPLANT (1)
H3	Mass fraction of water in vegetable 2 (g/g)	not used	8.000E-01		H2OPLANT (2)
H3	Mass fraction of water in livestock feed 1 (g/g)	not used	8.000E-01		H2OPLANT (3)
H3	Mass fraction of water in livestock feed 2 (g/g)	not used	8.000E-01		H2OPLANT (4)

Summary of Pathway Selections

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

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Contaminated Zone Dimensions Initial Soil Concentrations, Bq/g

Contaminated Zone Dimensions		Initial Soil Concentrations, Bq/g	
Area:	10000.00 square meters	Pb-210	5.040E-02
Thickness:	2.00 meters	Po-210	5.040E-02
Cover Depth:	0.00 meters	Ra-226	5.040E-02
		Ra-228	8.060E-02
		Th-228	8.060E-02
		Th-230	5.040E-02
		Th-232	8.060E-02
		U-234	5.040E-02
		U-238	5.040E-02

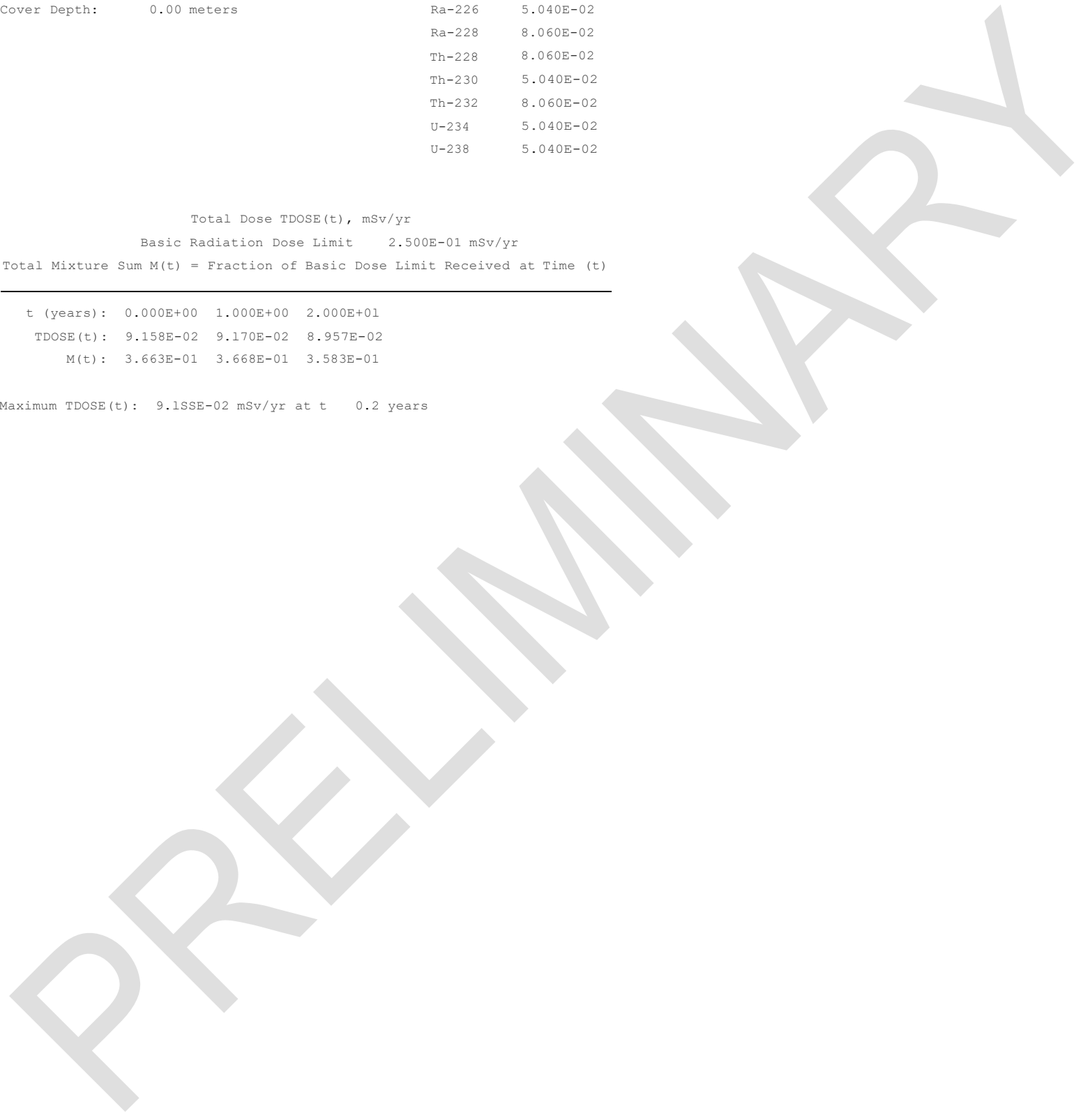
Total Dose TDOSE(t), mSv/yr

Basic Radiation Dose Limit 2.500E-01 mSv/yr

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

t (years):	0.000E+00	1.000E+00	2.000E+01
TDOSE(t):	9.158E-02	9.170E-02	8.957E-02
M(t):	3.663E-01	3.668E-01	3.583E-01

Maximum TDOSE(t): 9.158E-02 mSv/yr at t 0.2 years



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Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
in mSv/yr and as a Percentage of Total Dose at t = 0 years

From releases to ground water and to surface water

Radio- Nuclide	Ground		Fish		Radon		Plant		Meat		Milk		Soil		Water	
	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%
Pb-210	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Po-210	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ra-226	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ra-228	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Th-228	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Th-230	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Th-232	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
U-234	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
U-238	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Total	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
in mSv/yr and as a Percentage of Total Dose at t = 0 years

Directly from primary contamination and from release to atmosphere (Inhalation excludes radon)

Radio- Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil		All Pathways*	
	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%
Pb-210	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.23E-02	13	2.34E-03	3	0.00E+00	0	1.46E-02	16
Po-210	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	7.44E-03	8	7.04E-04	1	0.00E+00	0	8.14E-03	9
Ra-226	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.83E-03	5	5.70E-03	6	0.00E+00	0	1.05E-02	12
Ra-228	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.48E-02	27	3.02E-02	33	0.00E+00	0	5.49E-02	60
Th-228	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	6.14E-05	0	4.36E-06	0	0.00E+00	0	6.57E-05	0
Th-230	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.64E-05	0	4.43E-06	0	0.00E+00	0	5.05E-05	0
Th-232	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.21E-03	1	1.77E-03	2	0.00E+00	0	2.98E-03	3
U-234	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.20E-05	0	1.03E-04	0	0.00E+00	0	1.45E-04	0
U-238	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.12E-05	0	1.01E-04	0	0.00E+00	0	1.42E-04	0
Total	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	5.07E-02	55	4.09E-02	45	0.00E+00	0	9.16E-02	100

*Sum of dose from all releases and from primary contamination.

Parent Dose Report

Title Fingerboards, 20 years dust deposition, t=0y PRELIMINARY

File FB OPERATIONS.ROF

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
in mSv/yr and as a Percentage of Total Dose at t = 1 years

From releases to ground water and to surface water

Radio- Nuclide	Ground		Fish		Radon		Plant		Meat		Milk		Soil		Water	
	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%
Pb-210	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Po-210	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ra-226	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ra-228	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Th-228	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Th-230	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Th-232	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
U-234	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
U-238	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Total	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
in mSv/yr and as a Percentage of Total Dose at t = 1 years

Directly from primary contamination and from release to atmosphere (Inhalation excludes radon)

Radio- Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil		All Pathways*	
	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%
Pb-210	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.84E-02	20	2.84E-03	3	0.00E+00	0	2.12E-02	23
Po-210	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.14E-03	1	1.10E-04	0	0.00E+00	0	1.25E-03	1
Ra-226	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	5.34E-03	6	5.77E-03	6	0.00E+00	0	1.11E-02	12
Ra-228	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.19E-02	24	2.67E-02	29	0.00E+00	0	4.86E-02	53
Th-228	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.25E-05	0	3.03E-06	0	0.00E+00	0	4.56E-05	0
Th-230	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.86E-05	0	6.92E-06	0	0.00E+00	0	5.55E-05	0
Th-232	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.98E-03	4	5.19E-03	6	0.00E+00	0	9.17E-03	10
U-234	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.15E-05	0	1.03E-04	0	0.00E+00	0	1.44E-04	0
U-238	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.11E-05	0	1.01E-04	0	0.00E+00	0	1.42E-04	0
Total	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	5.09E-02	56	4.08E-02	44	0.00E+00	0	9.17E-02	100

*Sum of dose from all releases and from primary contamination.

Parent Dose Report

Title Fingerboards, 20 years dust deposition, t=0y PRELIMINARY

File FB OPERATIONS.ROF

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
in mSv/yr and as a Percentage of Total Dose at t = 20 years

From releases to ground water and to surface water

Radio- Nuclide	Ground		Fish		Radon		Plant		Meat		Milk		Soil		Water	
	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%
Pb-210	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Po-210	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ra-226	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ra-228	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Th-228	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Th-230	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Th-232	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
U-234	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
U-238	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Total	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
in mSv/yr and as a Percentage of Total Dose at t = 20 years

Directly from primary contamination and from release to atmosphere (Inhalation excludes radon)

Radio- Nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil		All Pathways*	
	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%	Dose	%
Pb-210	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.05E-02	12	1.58E-03	2	0.00E+00	0	1.20E-02	13
Po-210	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	6.69E-19	0	6.47E-20	0	0.00E+00	0	7.33E-19	0
Ra-226	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.34E-02	15	6.74E-03	8	0.00E+00	0	2.01E-02	22
Ra-228	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.12E-03	2	2.58E-03	3	0.00E+00	0	4.71E-03	5
Th-228	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.33E-08	0	3.09E-09	0	0.00E+00	0	4.64E-08	0
Th-230	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.30E-04	0	5.90E-05	0	0.00E+00	0	1.89E-04	0
Th-232	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.34E-02	26	2.88E-02	32	0.00E+00	0	5.22E-02	58
U-234	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.93E-05	0	9.63E-05	0	0.00E+00	0	1.36E-04	0
U-238	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.86E-05	0	9.46E-05	0	0.00E+00	0	1.33E-04	0
Total	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.96E-02	55	4.00E-02	45	0.00E+00	0	8.96E-02	100

*Sum of dose from all releases and from primary contamination.

Parent Dose Report

Title Fingerboards, 20 years dust deposition, t=0y PRELIMINARY

File FB OPERATIONS.ROF

Dose/Source Ratios Summed Over All Pathways

Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Thread Fraction	DSR(j,t) (mSv/yr)/(Bq/g)		
			0.000E+00	1.000E+00	2.000E+01
Pb-210+D	Pb-210+D	1.000E+00	8.894E-02	8.605E-02	4.607E-02
Pb-210+D	Po-210	1.000E+00	2.007E-01	3.349E-01	1.927E-01
Pb-210	ZDSR(j)		2.897E-01	4.209E-01	2.388E-01
Pb-210+D1	Pb-210+D1	1.339E-06	1.191E-07	1.152E-07	6.168E-08
Po-210	Po-210	1.000E+00	1.616E-01	2.480E-02	1.455E-17
Ra-226+D	Ra-226+D	1.000E+00	2.043E-01	2.037E-01	1.932E-01
Ra-226+D	Pb-210+D	1.000E+00	1.924E-03	4.746E-03	4.136E-02
Ra-226+D	Po-210	1.000E+00	2.812E-03	1.203E-02	1.652E-01
Ra-226	ZDSR(j)		2.091E-01	2.205E-01	3.997E-01
Ra-226+D	Ra-226+D	1.339E-06	2.736E-07	2.728E-07	2.586E-07
Ra-226+D	Pb-210+D1	1.339E-06	2.577E-09	6.354E-09	5.538E-08
Ra-226	ZDSR(j)		2.762E-07	2.792E-07	3.140E-07
Ra-228+D	Ra-228+D	1.000E+00	6.802E-01	6.011E-01	5.817E-02
Ra-228+D	Th-228+D	1.000E+00	1.193E-03	1.366E-03	2.141E-04
Ra-228	ZDSR(j)		6.814E-01	6.025E-01	5.838E-02
Th-228+D	Th-228+D	1.000E+00	8.153E-04	5.653E-04	5.758E-07
Th-230	Th-230	1.000E+00	9.699E-04	9.699E-04	9.697E-04
Th-230	Ra-226+D	1.000E+00	3.816E-05	1.261E-04	1.759E-03
Th-230	Pb-210+D	1.000E+00	2.932E-07	1.759E-06	2.090E-04
Th-230	Po-210	1.000E+00	3.497E-07	3.451E-06	8.044E-04
Th-230	ZDSR(j)		1.009E-03	1.101E-03	3.742E-03
Th-230	Th-230	1.339E-06	1.299E-09	1.299E-09	1.298E-09
Th-230	Ra-226+D	1.339E-06	5.110E-11	1.689E-10	2.355E-09
Th-230	Pb-210+D1	1.339E-06	3.926E-13	2.355E-12	2.798E-10
Th-230	ZDSR(j)		1.350E-09	1.470E-09	3.934E-09
Th-232	Th-232	1.000E+00	1.066E-03	1.066E-03	1.066E-03
Th-232	Ra-228+D	1.000E+00	3.585E-02	1.125E-01	6.450E-01
Th-232	Th-228+D	1.000E+00	5.782E-05	2.171E-04	1.901E-03
Th-232	ZDSR(j)		3.698E-02	1.138E-01	6.480E-01

Parent Dose Report

Title Fingerboards, 20 years dust deposition, t=0y PRELIMINARY

File FB OPERATIONS.ROF

Dose/Source Ratios Summed Over All Pathways

Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Thread Fraction	DSR(j,t) (mSv/yr)/(Bq/g)		
			0.000E+00	1.000E+00	2.000E+01
U-234	U-234	1.000E+00	2.875E-03	2.865E-03	2.690E-03
U-234	Th-230	1.000E+00	6.007E-09	1.508E-08	1.784E-07
U-234	Ra-226+D	1.000E+00	1.100E-10	8.624E-10	1.631E-07
U-234	Pb-210+D	1.000E+00	6.946E-13	9.198E-12	1.382E-08
U-234	Po-210	1.000E+00	7.057E-13	1.507E-11	5.143E-08
U-234	Z::DSR(j)		2.875E-03	2.865E-03	2.690E-03
U-234	U-234	1.339E-06	3.849E-09	3.836E-09	3.602E-09
U-234	Th-230	1.339E-06	8.043E-15	2.019E-14	2.388E-13
U-234	Ra-226+D	1.339E-06	1.473E-16	1.155E-15	2.184E-13
U-234	Pb-210+D1	1.339E-06	9.301E-19	1.232E-17	1.850E-14
U-234	Z::DSR(j)		3.849E-09	3.836E-09	3.602E-09
U-238	U-238	5.450E-07	1.413E-09	1.408E-09	1.322E-09
U-238+D	U-238+D	1.000E+00	2.824E-03	2.815E-03	2.643E-03
U-238+D	U-234	1.000E+00	4.024E-09	1.213E-08	1.557E-07
U-238+D	Th-230	1.000E+00	6.449E-15	3.647E-14	5.152E-12
U-238+D	Ra-226+D	1.000E+00	7.337E-17	1.254E-15	3.116E-12
U-238+D	Pb-210+D	1.000E+00	3.976E-19	1.113E-17	2.070E-13
U-238+D	Po-210	1.000E+00	5.815E-19	1.610E-17	7.463E-13
U-238	Z::DSR(j)		2.824E-03	2.815E-03	2.643E-03
U-238+D	U-238+D	1.339E-06	3.781E-09	3.769E-09	3.539E-09
U-238+D	U-234	1.339E-06	5.389E-15	1.624E-14	2.085E-13
U-238+D	Th-230	1.339E-06	8.635E-21	4.884E-20	6.898E-18
U-238+D	Ra-226+D	1.339E-06	9.847E-23	1.680E-21	4.172E-18
U-238+D	Pb-210+D1	1.339E-06	5.239E-25	1.486E-23	2.772E-19
U-238	Z::DSR(j)		3.781E-09	3.769E-09	3.539E-09

The DSR includes contributions from associated (half-life 5 30 days) daughters.



Parent Dose Report

Title Fingerboards, 20 years dust deposition, t=0y PRELIMINARY

File FB OPERATIONS.ROF

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

Basic Radiation Dose Limit= 2.500E01 mSv/yr

Nuclide

(i)	t=	0.000E+00	1.000E+00	2.000E+01
Pb-210		8.631E-01	5.939E-01	1.047E+00
Po-210		1.547E+00	1.008E+01	*1.655E+14
Ra-226		1.196E+00	1.134E+00	6.254E-01
Ra-228		3.669E-01	4.149E-01	4.282E+00
Th-228		3.066E+02	4.422E+02	4.342E+05
Th-230		2.478E+02	2.270E+02	6.681E+01
Th-232		6.761E+00	2.196E+00	3.858E-01
U-234		8.697E+01	8.726E+01	9.293E+01
U-238		8.852E+01	8.882E+01	9.459E+01

*At specific activity limit

Summed Dose/Source Ratios DSR(i,t) in (mSv/yr)/(Bq/g)

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

at tmin time of **minimum** single radionuclide soil guideline

and at tmax time of **maximum** total dose= 0.2 years

Nuclide (i)	Initial (Bq/g)	tmin (years)	DSR(i,tmin)	G(i,tmin) (Bq/g)	DSR(i,tmax)	G(i,tmax) (Bq/g)
Pb-210	5.040E-02	1.64	4.290E-01	5.827E-01	3.472E-01	7.200E-01
Po-210	5.040E-02	0	1.616E-01	1.547E+00	1.096E-01	2.280E+00
Ra-226	5.040E-02	50	5.022E-01	4.978E-01	2.111E-01	1.184E+00
Ra-228	8.060E-02	0	6.814E-01	3.669E-01	6.649E-01	3.760E-01
Th-228	8.060E-02	0	8.153E-04	3.066E+02	7.569E-04	3.303E+02
Th-230	5.040E-02	50	9.655E-03	2.589E+01	1.026E-03	2.436E+02
Th-232	8.060E-02	50	7.036E-01	3.553E-01	5.240E-02	4.771E+00
U-234	5.040E-02	0	2.875E-03	8.697E+01	2.873E-03	8.702E+01
U-238	5.040E-02	0	2.824E-03	8.852E+01	2.822E-03	8.858E+01

Parent Dose Report

Title Fingerboards, 20 years dust deposition, t=0y PRELIMINARY

File FB OPERATIONS.ROF

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

Nuclide (j)	Parent (i)	THF(i)	DOSE(j,t), mSv/yr		
			t= 0.000E+00	1.000E+00	2.000E+01
Pb-210	Pb-210	1.000E+00	4.483E-03	4.337E-03	2.322E-03
Pb-210	Pb-210	1.339E-06	6.002E-09	5.807E-09	3.109E-09
Ra-226	Pb-210	1.000E+00	9.699E-05	2.392E-04	2.085E-03
Th-230	Pb-210	1.000E+00	1.478E-08	8.866E-08	1.053E-05
Pb-210	U-238	1.000E+00	3.501E-14	4.636E-13	6.964E-10
Pb-210	U-238	1.000E+00	2.004E-20	5.611E-19	1.043E-14
ZDOSE(j):			4.580E-03	4.576E-03	4.417E-03
Po-210	Pb-210	1.000E+00	1.012E-02	1.688E-02	9.711E-03
Po-210	Po-210	1.000E+00	8.142E-03	1.250E-03	7.333E-19
Po-210	Ra-226	1.000E+00	1.417E-04	6.065E-04	8.326E-03
Po-210	Th-230	1.000E+00	1.762E-08	1.739E-07	4.054E-05
Po-210	U-234	1.000E+00	3.557E-14	7.597E-13	2.592E-09
Po-210	U-238	1.000E+00	2.931E-20	8.116E-19	3.761E-14
ZDOSE(j):			1.840E-02	1.874E-02	1.808E-02
Ra-226	Ra-226	1.000E+00	1.030E-02	1.027E-02	9.736E-03
Ra-226	Ra-226	1.339E-06	1.379E-08	1.375E-08	1.304E-08
Ra-226	Th-230	1.000E+00	1.923E-06	6.357E-06	8.866E-05
Ra-226	U-234	1.000E+00	5.543E-12	4.347E-11	8.220E-09
Ra-226	U-238	1.000E+00	3.698E-18	6.320E-17	1.571E-13
ZDOSE(j):			1.030E-02	1.028E-02	9.824E-03
Pb-210	Ra-226	1.339E-06	1.299E-10	3.203E-10	2.791E-09
Pb-210	Th-230	1.339E-06	1.978E-14	1.187E-13	1.410E-11
Pb-210	U-234	1.339E-06	4.688E-20	6.207E-19	9.325E-16
Pb-210	U-238	1.339E-06	2.640E-26	7.491E-25	1.397E-20
ZDOSE(j):			1.299E-10	3.204E-10	2.806E-09
Ra-228	Ra-228	1.000E+00	5.482E-02	4.845E-02	4.688E-03
Ra-228	Th-232	1.000E+00	2.890E-03	9.071E-03	5.199E-02
ZDOSE(j):			5.771E-02	5.752E-02	5.667E-02
Th-228	Ra-228	1.000E+00	9.613E-05	1.101E-04	1.726E-05
Th-228	Th-228	1.000E+00	6.571E-05	4.557E-05	4.641E-08
Th-228	Th-232	1.000E+00	4.661E-06	1.750E-05	1.532E-04
ZDOSE(j):			1.665E-04	1.732E-04	1.705E-04
Th-230	Th-230	1.000E+00	4.888E-05	4.888E-05	4.887E-05
Th-230	Th-230	1.339E-06	6.546E-11	6.545E-11	6.544E-11
Th-230	U-234	1.000E+00	3.027E-10	7.601E-10	8.989E-09
Th-230	U-238	1.000E+00	3.250E-16	1.838E-15	2.597E-13
ZDOSE(j):			4.888E-05	4.888E-05	4.888E-05

Parent Dose Report

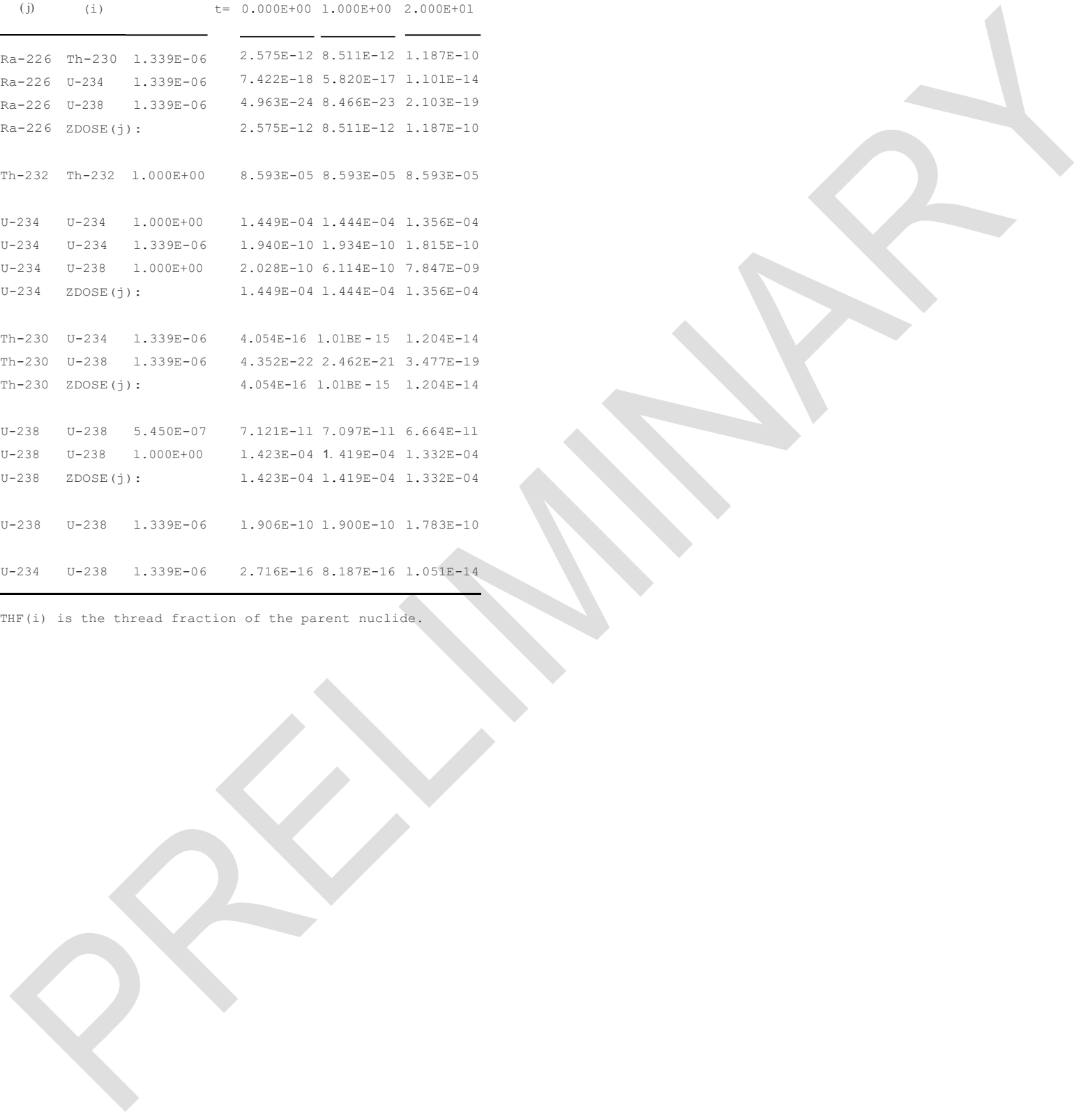
Title Fingerboards, 20 years dust deposition, t=0y PRELIMINARY

File FB OPERATIONS.ROF

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

Nuclide (j)	Parent (i)	THF(i)	DOSE(j,t), mSv/yr		
			t= 0.000E+00	1.000E+00	2.000E+01
Ra-226	Th-230	1.339E-06	2.575E-12	8.511E-12	1.187E-10
Ra-226	U-234	1.339E-06	7.422E-18	5.820E-17	1.101E-14
Ra-226	U-238	1.339E-06	4.963E-24	8.466E-23	2.103E-19
Ra-226	ZDOSE (j):		2.575E-12	8.511E-12	1.187E-10
Th-232	Th-232	1.000E+00	8.593E-05	8.593E-05	8.593E-05
U-234	U-234	1.000E+00	1.449E-04	1.444E-04	1.356E-04
U-234	U-234	1.339E-06	1.940E-10	1.934E-10	1.815E-10
U-234	U-238	1.000E+00	2.028E-10	6.114E-10	7.847E-09
U-234	ZDOSE (j):		1.449E-04	1.444E-04	1.356E-04
Th-230	U-234	1.339E-06	4.054E-16	1.01BE-15	1.204E-14
Th-230	U-238	1.339E-06	4.352E-22	2.462E-21	3.477E-19
Th-230	ZDOSE (j):		4.054E-16	1.01BE-15	1.204E-14
U-238	U-238	5.450E-07	7.121E-11	7.097E-11	6.664E-11
U-238	U-238	1.000E+00	1.423E-04	1.419E-04	1.332E-04
U-238	ZDOSE (j):		1.423E-04	1.419E-04	1.332E-04
U-238	U-238	1.339E-06	1.906E-10	1.900E-10	1.783E-10
U-234	U-238	1.339E-06	2.716E-16	8.187E-16	1.051E-14

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



Parent Dose Report

Title Fingerboards, 20 years dust deposition, t=0y PRELIMINARY

File FB OPERATIONS.ROF

Individual Nuclide Soil Concentration
Parent Nuclide and Thread Fraction Indicated

Nuclide (j)	Parent (i)	THF(i)	S(j,t) Bq/g		
			t= 0.000E+00	1.000E+00	2.000E+01
Pb-210	Pb-210	1.000E+00	5.040E-02	4.877E-02	2.611E-02
Pb-210	Pb-210	1.339E-06	6.749E-08	6.530E-08	3.496E-08
Pb-210	Ra-226	1.000E+00	0.000E+00	1.546E-03	2.236E-02
Pb-210	Th-230	1.000E+00	0.000E+00	3.368E-07	1.086E-04
Pb-210	U-234	1.000E+00	0.000E+00	1.035E-12	6.925E-09
Pb-210	U-238	1.000E+00	0.000E+00	7.301E-19	1.001E-13
Pb-210	ZS (j) :		5.040E-02	5.032E-02	4.858E-02
Po-210	Pb-210	1.000E+00	0.000E+00	4.115E-02	2.635E-02
Po-210	Po-210	1.000E+00	5.040E-02	7.958E-03	4.668E-18
Po-210	Ra-226	1.000E+00	0.000E+00	8.368E-04	2.175E-02
Po-210	Th-230	1.000E+00	0.000E+00	1.375E-07	1.026E-04
Po-210	U-234	1.000E+00	0.000E+00	3.414E-13	6.364E-09
Po-210	U-238	1.000E+00	0.000E+00	3.045E-19	8.964E-14
Po-210	ZS (j) :		5.040E-02	4.998E-02	4.820E-02
Ra-226	Ra-226	1.000E+00	5.040E-02	5.026E-02	4.765E-02
Ra-226	Ra-226	1.339E-06	6.749E-08	6.730E-08	6.380E-08
Ra-226	Th-230	1.000E+00	0.000E+00	2.150E-05	4.246E-04
Ra-226	U-234	1.000E+00	0.000E+00	1.002E-10	3.855E-08
Ra-226	U-238	1.000E+00	0.000E+00	9.424E-17	7.210E-13
Ra-226	ZS (j) :		5.040E-02	5.028E-02	4.807E-02
Pb-210	Ra-226	1.339E-06	0.000E+00	2.070E-09	2.994E-08
Pb-210	Th-230	1.339E-06	0.000E+00	4.510E-13	1.454E-10
Pb-210	U-234	1.339E-06	0.000E+00	1.386E-18	9.272E-15
Pb-210	U-238	1.339E-06	0.000E+00	9.384E-25	1.340E-19
Pb-210	ZS (j) :		0.000E+00	2.070E-09	3.005E-08
Ra-228	Ra-228	1.000E+00	8.060E-02	7.128E-02	6.897E-03
Ra-228	Th-232	1.000E+00	0.000E+00	9.143E-03	7.228E-02
Ra-228	ZS (j) :		8.060E-02	8.042E-02	7.917E-02
Th-228	Ra-228	1.000E+00	0.000E+00	2.298E-02	1.035E-02
Th-228	Th-228	1.000E+00	8.060E-02	5.609E-02	5.712E-05
Th-228	Th-232	1.000E+00	0.000E+00	1.503E-03	6.884E-02
Th-228	ZS (j) :		8.060E-02	8.057E-02	7.924E-02
Th-230	Th-230	1.000E+00	5.040E-02	5.040E-02	5.039E-02
Th-230	Th-230	1.339E-06	6.749E-08	6.748E-08	6.747E-08
Th-230	U-234	1.000E+00	0.000E+00	4.627E-07	8.967E-06
Th-230	U-238	1.000E+00	0.000E+00	6.528E-13	2.504E-10
Th-230	ZS (j) :		5.040E-02	5.040E-02	5.040E-02

Parent Dose Report

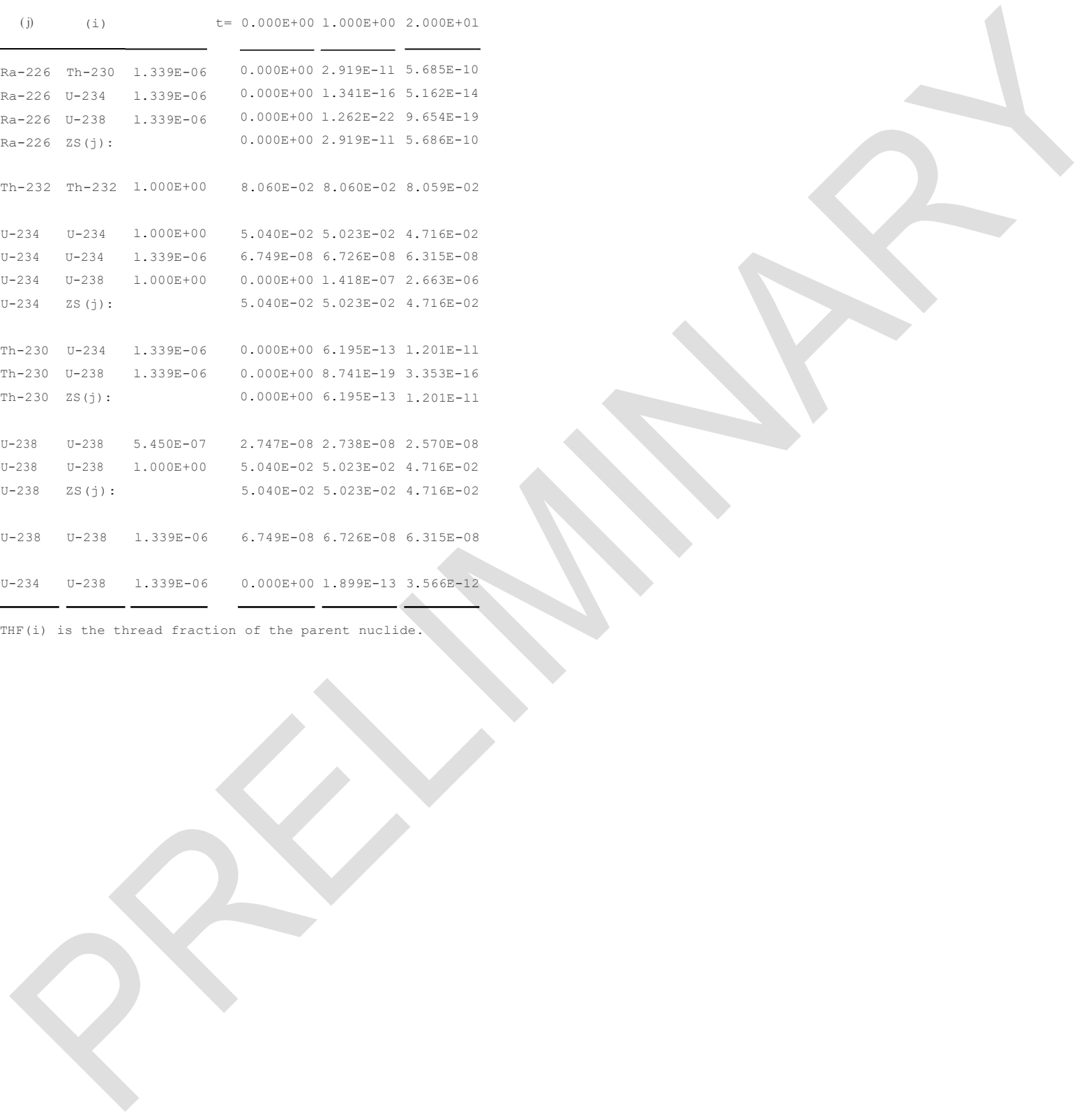
Title Fingerboards, 20 years dust deposition, t=0y PRELIMINARY

File FB OPERATIONS.ROF

Individual Nuclide Soil Concentration
Parent Nuclide and Thread Fraction Indicated

Nuclide (j)	Parent (i)	THF(i)	S(j,t), Bq/g		
			t= 0.000E+00	1.000E+00	2.000E+01
Ra-226	Th-230	1.339E-06	0.000E+00	2.919E-11	5.685E-10
Ra-226	U-234	1.339E-06	0.000E+00	1.341E-16	5.162E-14
Ra-226	U-238	1.339E-06	0.000E+00	1.262E-22	9.654E-19
Ra-226	ZS(j):		0.000E+00	2.919E-11	5.686E-10
Th-232	Th-232	1.000E+00	8.060E-02	8.060E-02	8.059E-02
U-234	U-234	1.000E+00	5.040E-02	5.023E-02	4.716E-02
U-234	U-234	1.339E-06	6.749E-08	6.726E-08	6.315E-08
U-234	U-238	1.000E+00	0.000E+00	1.418E-07	2.663E-06
U-234	ZS(j):		5.040E-02	5.023E-02	4.716E-02
Th-230	U-234	1.339E-06	0.000E+00	6.195E-13	1.201E-11
Th-230	U-238	1.339E-06	0.000E+00	8.741E-19	3.353E-16
Th-230	ZS(j):		0.000E+00	6.195E-13	1.201E-11
U-238	U-238	5.450E-07	2.747E-08	2.738E-08	2.570E-08
U-238	U-238	1.000E+00	5.040E-02	5.023E-02	4.716E-02
U-238	ZS(j):		5.040E-02	5.023E-02	4.716E-02
U-238	U-238	1.339E-06	6.749E-08	6.726E-08	6.315E-08
U-234	U-238	1.339E-06	0.000E+00	1.899E-13	3.566E-12

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



Parent Dose Report

Title Fingerboards, 20 years dust deposition, t=0y PRELIMINARY

File FB OPERATIONS.ROF

Run Time Information

ResOCalc.EXE execution began at 13:51 on 05/31/2021

ResOCalc.EXE execution ended at 13:51 on 05/31/2021

ResOCalc.EXE execution time 1.450 seconds

PRELIMINARY