

Title : DHS NUSTL Room 544, Surficial Contaminat

Input File : C:\RESRAD_Family\BUILD\3.5\NUSTL_Rm_544_Surficial_Am-241_Rev1.bld

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RESRAD-BUILD Input Parameters
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Number of Sources : 5
Number of Receptors: 1
Total Time : 3.650000E+02 days
Fraction Inside : 2.283105E-01

===== Receptor Information =====

Receptor	Room	x	y	z	FracTime	Inhalation	Ingestion(Dust)
		[m]	[m]	[m]		[m3/day]	[m2/hr]
1	1	1.510	2.780	0.910	1.000	1.80E+01	1.00E-04

===== Receptor-Source Shielding Relationship =====

Receptor	Source	Density	Thickness	Material
		[g/cm3]	[cm]	
1	1	2.40E+00	0.00E+00	Concrete
1	2	2.40E+00	0.00E+00	Concrete
1	3	2.40E+00	0.00E+00	Concrete
1	4	2.40E+00	0.00E+00	Concrete
1	5	2.40E+00	0.00E+00	Concrete

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==== Building Information ====

Building Air Exchange Rate: 3.00E-01 1/hr

Height [m]	Area [m2]	Air Exchanges [m3/hr]

		* * *
		* * *
		* * *
		<=Q01: 1.76E+01
H1: 3.500		* Room 1 * Q10 : 1.76E+01
		* LAMBDA: 3.00E-01 *
Area 16.770		* * *
		* * *

Deposition velocity: 1.00E-02 [m/s] Resuspension Rate: 5.00E-07 [1/s]

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==== Source Information =====

Source: 1

Location:: Room : 1 x: 0.00 y: 2.78 z: 0.91[m]

Geometry:: Type: Area Length[m]:3.02E+00 Width[m]:1.83E+00 Direction: x

Pathway ::

Direct Ingestion Rate: 0.000E+00 [1/hr]

Fraction released to air: 1.000E-01

Removable fraction: 5.000E-01

Time to Remove: 1.000E+04 [day]

Contamination::

Nuclide Concentration Dose Conversion Factor (Library: FGR 11)

		Ingestion	Inhalation	Submersion
	[pCi/m2]	[mrem/pCi]	[mrem/pCi]	[mrem/yr/ (pCi/m3)]
AM-241	1.400E+03	3.640E-03	4.440E-01	9.554E-05
NP-237	0.000E+00	4.444E-03	5.400E-01	1.212E-03
U-233	0.000E+00	2.890E-04	1.350E-01	1.904E-06
TH-229	0.000E+00	4.027E-03	2.169E+00	1.741E-03

Source: 2

Location:: Room : 1 x: 1.51 y: 5.56 z: 0.91[m]

Geometry:: Type: Area Length[m]:5.56E+00 Width[m]:1.83E+00 Direction: y

Pathway ::

Direct Ingestion Rate: 0.000E+00 [1/hr]

Fraction released to air: 1.000E-01

Removable fraction: 5.000E-01

Time to Remove: 1.000E+04 [day]

Contamination::

Nuclide Concentration Dose Conversion Factor (Library: FGR 11)

		Ingestion	Inhalation	Submersion
	[pCi/m2]	[mrem/pCi]	[mrem/pCi]	[mrem/yr/ (pCi/m3)]
AM-241	9.870E+02	3.640E-03	4.440E-01	9.554E-05
NP-237	0.000E+00	4.444E-03	5.400E-01	1.212E-03

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U-233	0.000E+00	2.890E-04	1.350E-01	1.904E-06
TH-229	0.000E+00	4.027E-03	2.169E+00	1.741E-03

Source: 3

Location:: Room : 1 x: 3.02 y: 2.78 z: 0.91[m]

Geometry:: Type: Area Length[m]:5.56E+00 Width[m]:1.83E+00 Direction: x

Pathway ::

Direct Ingestion Rate: 0.000E+00 [1/hr]
 Fraction released to air: 1.000E-01
 Removable fraction: 5.000E-01
 Time to Remove: 1.000E+04 [day]

Contamination::

Nuclide Concentration Dose Conversion Factor (Library: FGR 11)

	[pCi/m2]	Dose Conversion Factor (Library: FGR 11)		
		Ingestion [mrem/pCi]	Inhalation [mrem/pCi]	Submersion [mrem/yr/(pCi/m3)]
AM-241	4.680E+03	3.640E-03	4.440E-01	9.554E-05
NP-237	0.000E+00	4.444E-03	5.400E-01	1.212E-03
U-233	0.000E+00	2.890E-04	1.350E-01	1.904E-06
TH-229	0.000E+00	4.027E-03	2.169E+00	1.741E-03

Source: 4

Location:: Room : 1 x: 1.51 y: 0.00 z: 0.91[m]

Geometry:: Type: Area Length[m]:5.56E+00 Width[m]:1.83E+00 Direction: y

Pathway ::

Direct Ingestion Rate: 0.000E+00 [1/hr]
 Fraction released to air: 1.000E-01
 Removable fraction: 5.000E-01
 Time to Remove: 1.000E+04 [day]

Contamination::

Nuclide Concentration Dose Conversion Factor (Library: FGR 11)

	[pCi/m2]	Dose Conversion Factor (Library: FGR 11)		
		Ingestion [mrem/pCi]	Inhalation [mrem/pCi]	Submersion [mrem/yr/(pCi/m3)]
AM-241	2.840E+03	3.640E-03	4.440E-01	9.554E-05
NP-237	0.000E+00	4.444E-03	5.400E-01	1.212E-03
U-233	0.000E+00	2.890E-04	1.350E-01	1.904E-06

Title : DHS NUSTL Room 544, Surficial Contaminat

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TH-229 0.000E+00 4.027E-03 2.169E+00 1.741E-03

Source: 5

Location:: Room : 1 x: 1.51 y: 2.78 z: 0.00[m]

Geometry:: Type: Area Length[m]:3.02E+00 Width[m]:5.56E+00 Direction: z

Pathway ::

Direct Ingestion Rate: 0.000E+00 [1/hr]

Fraction released to air: 1.000E-01

Removable fraction: 5.000E-01

Time to Remove: 1.000E+04 [day]

Contamination::

Nuclide Concentration Dose Conversion Factor (Library: FGR 11)

		Ingestion	Inhalation	Submersion
	[pCi/m2]	[mrem/pCi]	[mrem/pCi]	[mrem/yr/ (pCi/m3)]
AM-241	2.530E+03	3.640E-03	4.440E-01	9.554E-05
NP-237	0.000E+00	4.444E-03	5.400E-01	1.212E-03
U-233	0.000E+00	2.890E-04	1.350E-01	1.904E-06
TH-229	0.000E+00	4.027E-03	2.169E+00	1.741E-03

Title : DHS NUSTL Room 544, Surficial Contaminat

Input File : C:\RESRAD_Family\BUILD\3.5\NUSTL_Rm_544_Surficial_Am-241_Rev1.bld

Evaluation Time: 0.0000000E+00 years

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Assessment for Time: 1

Time =0.00E+00 yr

===== Source Information =====

Source: 1

Location:: Room : 1 x: 0.00 y: 2.78 z: 0.91 [m]

Geometry:: Type: Area Length[m]:3.02E+00 Width[m]:1.83E+00 Direction: x

Pathway ::

Direct Ingestion Rate: 0.000E+00 [1/hr]

Fraction released to air: 1.000E-01

Removable fraction: 5.000E-01

Time to Remove: 1.000E+04 [day]

Contamination::	Nuclide	Concentration
		[pCi/m2]
	AM-241	1.400E+03
	NP-237	0.000E+00
	U-233	0.000E+00
	TH-229	0.000E+00

Source: 2

Location:: Room : 1 x: 1.51 y: 5.56 z: 0.91 [m]

Geometry:: Type: Area Length[m]:5.56E+00 Width[m]:1.83E+00 Direction: y

Pathway ::

Direct Ingestion Rate: 0.000E+00 [1/hr]

Fraction released to air: 1.000E-01

Removable fraction: 5.000E-01

Time to Remove: 1.000E+04 [day]

Contamination::	Nuclide	Concentration
		[pCi/m2]
	AM-241	9.870E+02
	NP-237	0.000E+00
	U-233	0.000E+00
	TH-229	0.000E+00

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Evaluation Time: 0.0000000E+00 years

Source: 3

Location:: Room : 1 x: 3.02 y: 2.78 z: 0.91 [m]

Geometry:: Type: Area Length[m]:5.56E+00 Width[m]:1.83E+00 Direction: x

Pathway ::

Direct Ingestion Rate: 0.000E+00 [1/hr]

Fraction released to air: 1.000E-01

Removable fraction: 5.000E-01

Time to Remove: 1.000E+04 [day]

Contamination::	Nuclide	Concentration
		[pCi/m2]
	AM-241	4.680E+03
	NP-237	0.000E+00
	U-233	0.000E+00
	TH-229	0.000E+00

Source: 4

Location:: Room : 1 x: 1.51 y: 0.00 z: 0.91 [m]

Geometry:: Type: Area Length[m]:5.56E+00 Width[m]:1.83E+00 Direction: y

Pathway ::

Direct Ingestion Rate: 0.000E+00 [1/hr]

Fraction released to air: 1.000E-01

Removable fraction: 5.000E-01

Time to Remove: 1.000E+04 [day]

Contamination::	Nuclide	Concentration
		[pCi/m2]
	AM-241	2.840E+03
	NP-237	0.000E+00
	U-233	0.000E+00
	TH-229	0.000E+00

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Evaluation Time: 0.0000000E+00 years

Source: 5

Location:: Room : 1 x: 1.51 y: 2.78 z: 0.00 [m]

Geometry:: Type: Area Length[m]:3.02E+00 Width[m]:5.56E+00 Direction: z

Pathway ::

Direct Ingestion Rate: 0.000E+00 [1/hr]

Fraction released to air: 1.000E-01

Removable fraction: 5.000E-01

Time to Remove: 1.000E+04 [day]

Contamination::	Nuclide	Concentration
		[pCi/m2]
	AM-241	2.530E+03
	NP-237	0.000E+00
	U-233	0.000E+00
	TH-229	0.000E+00

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Evaluation Time: 0.0000000E+00 years

RESRAD-BUILD Dose Tables

Source Contributions to Receptor Doses

[mrem]

	Source	Source	Source	Source	Source	Total
	1	2	3	4	5	
Receptor 1	6.21E-02	8.05E-02	3.82E-01	2.32E-01	3.41E-01	1.10E+00
Total	6.21E-02	8.05E-02	3.82E-01	2.32E-01	3.41E-01	1.10E+00

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Input File : C:\RESRAD_Family\BUILD\3.5\NUSTL_Rm_544_Surficial_Am-241_Rev1.bld

Evaluation Time: 0.0000000E+00 years

Pathway Detail of Doses

[mrem]

Source: 1

Receptor	External	Deposition	Immersion	Inhalation	Radon	Ingestion
1	8.05E-05	5.71E-07	1.99E-09	6.07E-02	0.00E+00	1.33E-03
Total	8.05E-05	5.71E-07	1.99E-09	6.07E-02	0.00E+00	1.33E-03

Source: 2

Receptor	External	Deposition	Immersion	Inhalation	Radon	Ingestion
1	3.20E-05	7.41E-07	2.58E-09	7.88E-02	0.00E+00	1.72E-03
Total	3.20E-05	7.41E-07	2.58E-09	7.88E-02	0.00E+00	1.72E-03

Source: 3

Receptor	External	Deposition	Immersion	Inhalation	Radon	Ingestion
1	3.70E-04	3.51E-06	1.23E-08	3.74E-01	0.00E+00	8.17E-03
Total	3.70E-04	3.51E-06	1.23E-08	3.74E-01	0.00E+00	8.17E-03

Source: 4

Receptor	External	Deposition	Immersion	Inhalation	Radon	Ingestion
1	9.21E-05	2.13E-06	7.43E-09	2.27E-01	0.00E+00	4.96E-03
Total	9.21E-05	2.13E-06	7.43E-09	2.27E-01	0.00E+00	4.96E-03

Source: 5

Receptor	External	Deposition	Immersion	Inhalation	Radon	Ingestion
1	5.01E-04	3.13E-06	1.09E-08	3.33E-01	0.00E+00	7.29E-03
Total	5.01E-04	3.13E-06	1.09E-08	3.33E-01	0.00E+00	7.29E-03

Title : DHS NUSTL Room 544, Surficial Contaminat

Input File : C:\RESRAD_Family\BUILD\3.5\NUSTL_Rm_544_Surficial_Am-241_Rev1.bld

Evaluation Time: 0.0000000E+00 years

Nuclide Detail of Doses

[mrem]

Source: 1

Nuclide	Receptor	Total
	1	
AM-241	6.21E-02	6.21E-02
NP-237	1.23E-08	1.23E-08
U-233	4.39E-15	4.39E-15
TH-229	1.66E-18	1.66E-18

Source: 2

Nuclide	Receptor	Total
	1	
AM-241	8.05E-02	8.05E-02
NP-237	1.60E-08	1.60E-08
U-233	5.69E-15	5.69E-15
TH-229	2.16E-18	2.16E-18

Source: 3

Nuclide	Receptor	Total
	1	
AM-241	3.82E-01	3.82E-01
NP-237	7.58E-08	7.58E-08
U-233	2.70E-14	2.70E-14
TH-229	1.02E-17	1.02E-17

Source: 4

Nuclide	Receptor	Total
	1	
AM-241	2.32E-01	2.32E-01

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Input File : C:\RESRAD_Family\BUILD\3.5\NUSTL_Rm_544_Surficial_Am-241_Rev1.bld

Evaluation Time: 0.0000000E+00 years

NP-237	4.59E-08	4.59E-08
U-233	1.64E-14	1.64E-14
TH-229	6.21E-18	6.21E-18

Source: 5

Nuclide	Receptor	Total
	1	
AM-241	3.41E-01	3.41E-01
NP-237	6.78E-08	6.78E-08
U-233	2.41E-14	2.41E-14
TH-229	9.14E-18	9.14E-18

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Input File : C:\RESRAD_Family\BUILD\3.5\NUSTL_Rm_544_Surficial_Am-241_Rev1.bld

Evaluation Time: 1.00000000 years

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Assessment for Time: 2
Time =1.00E+00 yr

===== Source Information =====

Source: 1

Location:: Room : 1 x: 0.00 y: 2.78 z: 0.91 [m]

Geometry:: Type: Area Length[m]:3.02E+00 Width[m]:1.83E+00 Direction: x

Pathway ::

Direct Ingestion Rate: 0.000E+00 [1/hr]
Fraction released to air: 1.000E-01
Removable fraction: 4.907E-01
Time to Remove: 1.000E+04 [day]

Contamination::	Nuclide	Concentration
		[pCi/m2]
	AM-241	1.372E+03
	NP-237	4.448E-04
	U-233	9.698E-10
	TH-229	3.053E-14

Source: 2

Location:: Room : 1 x: 1.51 y: 5.56 z: 0.91 [m]

Geometry:: Type: Area Length[m]:5.56E+00 Width[m]:1.83E+00 Direction: y

Pathway ::

Direct Ingestion Rate: 0.000E+00 [1/hr]
Fraction released to air: 1.000E-01
Removable fraction: 4.907E-01
Time to Remove: 1.000E+04 [day]

Contamination::	Nuclide	Concentration
		[pCi/m2]
	AM-241	9.674E+02
	NP-237	3.136E-04
	U-233	6.837E-10
	TH-229	2.153E-14

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Evaluation Time: 1.00000000 years

Source: 3

Location:: Room : 1 x: 3.02 y: 2.78 z: 0.91 [m]

Geometry:: Type: Area Length[m]:5.56E+00 Width[m]:1.83E+00 Direction: x

Pathway ::

Direct Ingestion Rate: 0.000E+00 [1/hr]

Fraction released to air: 1.000E-01

Removable fraction: 4.907E-01

Time to Remove: 1.000E+04 [day]

Contamination::	Nuclide	Concentration
		[pCi/m2]
	AM-241	4.587E+03
	NP-237	1.487E-03
	U-233	3.242E-09
	TH-229	1.021E-13

Source: 4

Location:: Room : 1 x: 1.51 y: 0.00 z: 0.91 [m]

Geometry:: Type: Area Length[m]:5.56E+00 Width[m]:1.83E+00 Direction: y

Pathway ::

Direct Ingestion Rate: 0.000E+00 [1/hr]

Fraction released to air: 1.000E-01

Removable fraction: 4.907E-01

Time to Remove: 1.000E+04 [day]

Contamination::	Nuclide	Concentration
		[pCi/m2]
	AM-241	2.784E+03
	NP-237	9.024E-04
	U-233	1.967E-09
	TH-229	6.194E-14

Title : DHS NUSTL Room 544, Surficial Contaminat

Input File : C:\RESRAD_Family\BUILD\3.5\NUSTL_Rm_544_Surficial_Am-241_Rev1.bld

Evaluation Time: 1.00000000 years

Source: 5

Location:: Room : 1 x: 1.51 y: 2.78 z: 0.00 [m]

Geometry:: Type: Area Length[m]:3.02E+00 Width[m]:5.56E+00 Direction: z

Pathway ::

Direct Ingestion Rate: 0.000E+00 [1/hr]

Fraction released to air: 1.000E-01

Removable fraction: 4.907E-01

Time to Remove: 1.000E+04 [day]

Contamination::	Nuclide	Concentration
		[pCi/m2]
	AM-241	2.480E+03
	NP-237	8.039E-04
	U-233	1.753E-09
	TH-229	5.518E-14

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Evaluation Time: 1.00000000 years

RESRAD-BUILD Dose Tables

Source Contributions to Receptor Doses

[mrem]

	Source	Source	Source	Source	Source	Total
	1	2	3	4	5	
Receptor 1	6.20E-02	8.04E-02	3.82E-01	2.31E-01	3.41E-01	1.10E+00
Total	6.20E-02	8.04E-02	3.82E-01	2.31E-01	3.41E-01	1.10E+00

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Evaluation Time: 1.00000000 years

Pathway Detail of Doses

[mrem]

Source: 1

Receptor	External	Deposition	Immersion	Inhalation	Radon	Ingestion
1	7.89E-05	5.70E-07	1.99E-09	6.06E-02	0.00E+00	1.32E-03
Total	7.89E-05	5.70E-07	1.99E-09	6.06E-02	0.00E+00	1.32E-03

Source: 2

Receptor	External	Deposition	Immersion	Inhalation	Radon	Ingestion
1	3.14E-05	7.39E-07	2.58E-09	7.87E-02	0.00E+00	1.72E-03
Total	3.14E-05	7.39E-07	2.58E-09	7.87E-02	0.00E+00	1.72E-03

Source: 3

Receptor	External	Deposition	Immersion	Inhalation	Radon	Ingestion
1	3.63E-04	3.51E-06	1.22E-08	3.73E-01	0.00E+00	8.15E-03
Total	3.63E-04	3.51E-06	1.22E-08	3.73E-01	0.00E+00	8.15E-03

Source: 4

Receptor	External	Deposition	Immersion	Inhalation	Radon	Ingestion
1	9.03E-05	2.13E-06	7.42E-09	2.26E-01	0.00E+00	4.95E-03
Total	9.03E-05	2.13E-06	7.42E-09	2.26E-01	0.00E+00	4.95E-03

Source: 5

Receptor	External	Deposition	Immersion	Inhalation	Radon	Ingestion
1	4.91E-04	3.13E-06	1.09E-08	3.33E-01	0.00E+00	7.27E-03
Total	4.91E-04	3.13E-06	1.09E-08	3.33E-01	0.00E+00	7.27E-03

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Evaluation Time: 1.00000000 years

Nuclide Detail of Doses

[mrem]

Source: 1

Nuclide	Receptor	Total
	1	
AM-241	6.20E-02	6.20E-02
NP-237	3.70E-08	3.70E-08
U-233	3.07E-14	3.07E-14
TH-229	2.50E-17	2.50E-17

Source: 2

Nuclide	Receptor	Total
	1	
AM-241	8.04E-02	8.04E-02
NP-237	4.78E-08	4.78E-08
U-233	3.98E-14	3.98E-14
TH-229	3.24E-17	3.24E-17

Source: 3

Nuclide	Receptor	Total
	1	
AM-241	3.82E-01	3.82E-01
NP-237	2.27E-07	2.27E-07
U-233	1.89E-13	1.89E-13
TH-229	1.54E-16	1.54E-16

Source: 4

Nuclide	Receptor	Total
	1	
AM-241	2.31E-01	2.31E-01

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Evaluation Time: 1.00000000 years

NP-237	1.38E-07	1.38E-07
U-233	1.15E-13	1.15E-13
TH-229	9.31E-17	9.31E-17

Source: 5

Nuclide	Receptor	Total
	1	
AM-241	3.41E-01	3.41E-01
NP-237	2.03E-07	2.03E-07
U-233	1.69E-13	1.69E-13
TH-229	1.37E-16	1.37E-16

Title : DHS NUSTL Room 544, Surficial Contaminat

Input File : C:\RESRAD_Family\BUILD\3.5\NUSTL_Rm_544_Surficial_Am-241_Rev1.bld

Full Summary

RESRAD-BUILD Dose (Time) Tables

Receptor Dose Received for the Exposure Duration

(mrem)

Evaluation Time [yr]

0.00E+00 1.00E+00

1 1.10E+00 1.10E+00

Receptor Dose/Yr Averaged Over Exposure Duration

(mrem/yr)

Evaluation Time [yr]

0.00E+00 1.00E+00

1 1.10E+00 1.10E+00