Title : HPNS RESRAD-BUILD Child Resident Risk
Input File : C:\Users\Craig\Desktop\HPNS BUILD Child U_25Sep19_9pt3m2_risk.bld

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===                                      ===
===     RESRAD-BUILD Input Parameters    ===
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Number of Sources : 1
Number of Receptors: 1
Total Time : 2.190000E+03 days
Fraction Inside : 9.600000E-01

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

Receptor	Room	x [m]	y [m]	z [m]	FracTime	Inhalation [m3/day]	Ingestion(Dust) [m2/hr]
1	1	1.500	1.500	1.000	1.000	1.00E+01	2.00E-04

=== Receptor-Source Shielding Relationship ===

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

======== Building Information ========

Building Air Exchange Rate: 4.50E-01 1/hr

```
 Height[m]       Air Exchanges [m3/hr]
 Area [m2]
            ******************************
            *                            *
            *                            *
            *                            <=Q01: 1.28E+01
 H1:  3.050    *        Room  1        *    Q10 :  1.28E+01
            *  LAMBDA: 4.50E-01        *
 Area  9.300    *                      *
            *                            *
            ******************************
```

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: 1.50 y: 1.50 z: 0.00[m]
Geometry:: Type: Area Length[m]:3.05E+00 Width[m]:3.05E+00 Direction: z
Pathway ::
Direct Ingestion Rate: 0.000E+00 [1/hr]
Fraction released to air: 1.000E-01
Removable fraction: 2.000E-01
Time to Remove: 9.490E+03 [day]

Contamination::

Nuclide	Concentration [dpm/m2]	Slope Factor Ingestion [Risk/dpm]	Slope Factor Inhalation [Risk/dpm]
U-235	4.880E+04	7.359E-11	4.550E-09
PA-231	0.000E+00	1.685E-10	2.050E-08
AC-227	0.000E+00	5.232E-10	9.399E-08

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Evaluation Time: 0.00000000E+00 years

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=== Assessment for Time: 1 ===
=== Time =0.00E+00 yr ===
==========
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======== Source Information ========

Source: 1
Location:: Room : 1 x: 1.50 y: 1.50 z: 0.00 [m]
Geometry:: Type: Area Length[m]:3.05E+00 Width[m]:3.05E+00 Direction: z
Pathway ::
Direct Ingestion Rate: 0.000E+00 [1/hr]
Fraction released to air: 1.000E-01
Removable fraction: 2.000E-01
Time to Remove: 9.490E+03 [day]

Contamination::

Nuclide	Concentration [dpm/m2]
U-235	4.880E+04
PA-231	0.000E+00
AC-227	0.000E+00

Title : HPNS RESRAD-BUILD Child Resident Risk
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Evaluation Time: 0.00000000E+00 years

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===                                      ===
===      RESRAD-BUILD Risk Tables        ===
===                                      ===
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Source Contributions to Receptor Risks
==========
[Risk]

	Source	Total
	1	
Receptor 1	5.82E-07	5.82E-07
Total	5.82E-07	5.82E-07

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Pathway Detail of Risks
==========
[Risk]

Source: 1

Receptor	External	Deposition	Immersion	Inhalation	Radon	Ingestion
1	2.36E-07	3.09E-10	5.24E-12	2.99E-07	0.00E+00	4.64E-08
Total	2.36E-07	3.09E-10	5.24E-12	2.99E-07	0.00E+00	4.64E-08

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Nuclide Detail of Risks
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[Risk]

Source: 1

Nuclide	Receptor 1	Total
U-235	5.82E-07	5.82E-07
PA-231	9.63E-11	9.63E-11
AC-227	2.58E-11	2.58E-11