Title : HPNS RESRAD-BUILD Indoor Worker Risk
Input File : C:\Users\Craig\Desktop\HPNS BUILD IW U_25Sep19_9pt3m2_risk.bld

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===                                          ===
===     RESRAD-BUILD Table of Contents       ===
===                                          ===
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===                                          ===
===     RESRAD-BUILD Input Parameters        ===
===                                          ===
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```

Number of Sources : 1
Number of Receptors: 1
Total Time : 9.125000E+03 days
Fraction Inside : 6.800000E-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	0.330	6.00E+01	1.00E-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: 1.50E+00 1/hr

```
 Height[m]       Air Exchanges [m3/hr]
 Area [m2]
           ******************************
           *                    *
           *                    *
           *                    <=Q01: 4.25E+01
 H1:   3.050     *        Room  1        *     Q10 :  4.25E+01
           *   LAMBDA: 1.50E+00        *
 Area   9.300     *                    *
           *                    *
           ******************************
```

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

======== 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: 9.125E+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

```
==================================================
==================================================
===      Assessment for Time:  1          ===
===          Time =0.00E+00 yr          ===
==================================================
==================================================
```

======== 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: 9.125E+03 [day]

Contamination::

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

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===                                          ===
===      RESRAD-BUILD Risk Tables            ===
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==================================================
```

Source Contributions to Receptor Risks
==========
[Risk]

	Source 1	Total
Receptor	1	7.54E-07 7.54E-07
Total		7.54E-07 7.54E-07

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

Source: 1

Receptor	External	Deposition	Immersion	Inhalation	Radon	Ingestion
1	2.12E-07	9.20E-11	1.56E-12	5.35E-07	0.00E+00	6.91E-09
Total	2.12E-07	9.20E-11	1.56E-12	5.35E-07	0.00E+00	6.91E-09

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Nuclide Detail of Risks
==========
[Risk]

Source: 1

Nuclide	Receptor 1	Total
U-235	7.52E-07	7.52E-07
PA-231	6.40E-10	6.40E-10
AC-227	6.33E-10	6.33E-10