Title : HPNS RESRAD-BUILD Indoor Worker Dose
Input File : C:\Users\Craig\Desktop\HPNS BUILD IW U_25Sep19_9pt3m2_dose.bld

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=== ===
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===                                          ===
===     RESRAD-BUILD Input Parameters        ===
===                                          ===
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Number of Sources : 1
Number of Receptors: 1
Total Time : 3.650000E+02 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 Dose Conversion Factor (Library: HPNS Adult)

Nuclide	Concentration [dpm/m2]	Ingestion [mrem/dpm]	Inhalation [mrem/dpm]	Submersion [mrem/yr/(dpm/m3)]
U-235	4.880E+04	1.204E-04	5.541E-02	4.063E-04
PA-231	0.000E+00	4.775E-03	5.766E-01	9.049E-05
AC-227	0.000E+00	6.665E-03	3.029E+00	9.734E-04

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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 Dose Tables            ===
===                                          ===
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Source Contributions to Receptor Doses
==========
[mrem]

	Source 1	Total
Receptor 1	2.79E-01	2.79E-01
Total	2.79E-01	2.79E-01

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Pathway Detail of Doses
==========
[mrem]

Source: 1

Receptor	External	Deposition	Immersion	Inhalation	Radon	Ingestion
1	1.31E-02	5.25E-06	8.89E-08	2.65E-01	0.00E+00	4.62E-04
Total	1.31E-02	5.25E-06	8.89E-08	2.65E-01	0.00E+00	4.62E-04

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Nuclide Detail of Doses
==========
[mrem]

Source: 1

Nuclide	Receptor 1	Total
U-235	2.79E-01	2.79E-01
PA-231	2.94E-05	2.94E-05
AC-227	1.59E-06	1.59E-06

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===                                          ===
===    RESRAD-BUILD Dose (Time) Tables       ===
===                                          ===
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Receptor Dose Received for the Exposure Duration
==========
(mrem)

	Evaluation Time [yr] 0.00E+00
1	2.79E-01

Receptor Dose/Yr Averaged Over Exposure Duration
==========
(mrem/yr)

	Evaluation Time [yr] 0.00E+00
1	2.79E-01