

Title : Large Warehouse - Occupancy

Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld

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RESRAD-BUILD Input Parameters
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Number of Sources : 6
Number of Receptors: 1
Total Time       : 3.652500E+02 days
Fraction Inside  : 2.700000E-01
    
```

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===== Receptor Information =====
    
```

Receptor	Room	x [m]	y [m]	z [m]	FracTime	Inhalation [m3/day]	Ingestion(Dust) [m2/hr]
1	1	9.000	15.100	1.000	1.000	3.36E+01	1.10E-04

```

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

Receptor	Source	Density [g/cm3]	Thickness [cm]	Material
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
1	6	2.40E+00	0.00E+00	Concrete

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==== Building Information ====

Building Air Exchange Rate: 8.30E-01 1/hr

Height [m]	Air Exchanges [m3/hr]
Area [m2]	
	*****
	* * *
	* * *
	* * * <=Q01: 3.30E+03
H1: 7.300	* Room 1 * Q10 : 3.30E+03
	* LAMBDA: 8.30E-01 *
Area 544.000	* * *
	* * *
	*****

Deposition velocity: 8.07E-05 [m/s] Resuspension Rate: 5.73E-08 [1/s]

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==== Source Information =====

Source: 1

Location:: Room : 1 x: 9.00 y: 15.10 z: 0.00[m]

Geometry:: Type: Area Length[m]:1.80E+01 Width[m]:3.02E+01 Direction: z

Pathway ::

Direct Ingestion Rate: 6.140E-08 [1/hr]

Fraction released to air: 7.000E-02

Removable fraction: 1.000E-01

Time to Remove: 1.792E+04 [day]

Radon Release Fraction: 0.000E+00

Contamination::

Nuclide Concentration Dose Conversion Factor (Library: FGR 11)

	[dpm/m2]	Dose Conversion Factor (Library: FGR 11)		
		Ingestion [mrem/dpm]	Inhalation [mrem/dpm]	Submersion [mrem/yr/ (dpm/m3)]
AM-241	1.000E+02	1.640E-03	2.000E-01	4.304E-05
PU-240	1.000E+02	1.595E-03	1.932E-01	2.499E-07
PU-239	1.000E+02	1.595E-03	1.932E-01	2.231E-07
NP-237	1.000E+02	2.002E-03	2.432E-01	5.461E-04
U-238	1.000E+02	1.210E-04	5.317E-02	7.191E-05
U-236	0.000E+00	1.212E-04	5.631E-02	2.636E-07
U-235	1.000E+02	1.204E-04	5.541E-02	4.063E-04
U-234	1.000E+02	1.275E-04	5.946E-02	4.014E-07
U-233	0.000E+00	1.302E-04	6.081E-02	8.576E-07
PA-231	0.000E+00	4.775E-03	5.766E-01	9.049E-05
TH-232	0.000E+00	1.230E-03	7.387E-01	4.588E-07
TH-230	0.000E+00	2.468E-04	1.468E-01	9.155E-07
TH-229	0.000E+00	1.814E-03	9.768E-01	7.842E-04
TH-228	0.000E+00	3.642E-04	1.556E-01	4.224E-03
AC-227	0.000E+00	6.665E-03	3.029E+00	9.734E-04
RA-228	0.000E+00	6.496E-04	2.287E-03	2.515E-03
RA-226	0.000E+00	5.950E-04	3.871E-03	4.663E-03
PB-210	0.000E+00	2.422E-03	6.214E-03	4.698E-06
TC-99	1.000E+02	6.577E-07	3.748E-06	8.523E-08

Title : Large Warehouse - Occupancy

Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld

Source: 2

Location:: Room : 1 x: 9.00 y: 15.10 z: 7.30[m]

Geometry:: Type: Area Length[m]:1.80E+01 Width[m]:3.02E+01 Direction: z

Pathway ::

Direct Ingestion Rate: 6.140E-08 [1/hr]

Fraction released to air: 7.000E-02

Removable fraction: 1.000E-01

Time to Remove: 1.792E+04 [day]

Radon Release Fraction: 0.000E+00

Contamination::

Nuclide Concentration Dose Conversion Factor (Library: FGR 11)

	[dpm/m2]	Dose Conversion Factor (Library: FGR 11)		
		Ingestion [mrem/dpm]	Inhalation [mrem/dpm]	Submersion [mrem/yr/ (dpm/m3)]
AM-241	1.000E+02	1.640E-03	2.000E-01	4.304E-05
PU-240	1.000E+02	1.595E-03	1.932E-01	2.499E-07
PU-239	1.000E+02	1.595E-03	1.932E-01	2.231E-07
NP-237	1.000E+02	2.002E-03	2.432E-01	5.461E-04
U-238	1.000E+02	1.210E-04	5.317E-02	7.191E-05
U-236	0.000E+00	1.212E-04	5.631E-02	2.636E-07
U-235	1.000E+02	1.204E-04	5.541E-02	4.063E-04
U-234	1.000E+02	1.275E-04	5.946E-02	4.014E-07
U-233	0.000E+00	1.302E-04	6.081E-02	8.576E-07
PA-231	0.000E+00	4.775E-03	5.766E-01	9.049E-05
TH-232	0.000E+00	1.230E-03	7.387E-01	4.588E-07
TH-230	0.000E+00	2.468E-04	1.468E-01	9.155E-07
TH-229	0.000E+00	1.814E-03	9.768E-01	7.842E-04
TH-228	0.000E+00	3.642E-04	1.556E-01	4.224E-03
AC-227	0.000E+00	6.665E-03	3.029E+00	9.734E-04
RA-228	0.000E+00	6.496E-04	2.287E-03	2.515E-03
RA-226	0.000E+00	5.950E-04	3.871E-03	4.663E-03
PB-210	0.000E+00	2.422E-03	6.214E-03	4.698E-06
TC-99	1.000E+02	6.577E-07	3.748E-06	8.523E-08

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Source: 3

Location:: Room : 1 x: 0.00 y: 15.10 z: 3.70[m]

Geometry:: Type: Area Length[m]:3.02E+01 Width[m]:7.30E+00 Direction: x

Pathway ::

Direct Ingestion Rate: 6.140E-08 [1/hr]

Fraction released to air: 7.000E-02

Removable fraction: 1.000E-01

Time to Remove: 1.792E+04 [day]

Radon Release Fraction: 0.000E+00

Contamination::

Nuclide Concentration Dose Conversion Factor (Library: FGR 11)

	[dpm/m2]	Dose Conversion Factor (Library: FGR 11)		
		Ingestion [mrem/dpm]	Inhalation [mrem/dpm]	Submersion [mrem/yr/ (dpm/m3)]
AM-241	1.000E+02	1.640E-03	2.000E-01	4.304E-05
PU-240	1.000E+02	1.595E-03	1.932E-01	2.499E-07
PU-239	1.000E+02	1.595E-03	1.932E-01	2.231E-07
NP-237	1.000E+02	2.002E-03	2.432E-01	5.461E-04
U-238	1.000E+02	1.210E-04	5.317E-02	7.191E-05
U-236	0.000E+00	1.212E-04	5.631E-02	2.636E-07
U-235	1.000E+02	1.204E-04	5.541E-02	4.063E-04
U-234	1.000E+02	1.275E-04	5.946E-02	4.014E-07
U-233	0.000E+00	1.302E-04	6.081E-02	8.576E-07
PA-231	0.000E+00	4.775E-03	5.766E-01	9.049E-05
TH-232	0.000E+00	1.230E-03	7.387E-01	4.588E-07
TH-230	0.000E+00	2.468E-04	1.468E-01	9.155E-07
TH-229	0.000E+00	1.814E-03	9.768E-01	7.842E-04
TH-228	0.000E+00	3.642E-04	1.556E-01	4.224E-03
AC-227	0.000E+00	6.665E-03	3.029E+00	9.734E-04
RA-228	0.000E+00	6.496E-04	2.287E-03	2.515E-03
RA-226	0.000E+00	5.950E-04	3.871E-03	4.663E-03
PB-210	0.000E+00	2.422E-03	6.214E-03	4.698E-06
TC-99	1.000E+02	6.577E-07	3.748E-06	8.523E-08

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Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld

Source: 4

Location:: Room : 1 x: 9.00 y: 30.20 z: 3.70[m]

Geometry:: Type: Area Length[m]:1.80E+01 Width[m]:7.30E+00 Direction: y

Pathway ::

Direct Ingestion Rate: 6.140E-08 [1/hr]

Fraction released to air: 7.000E-02

Removable fraction: 1.000E-01

Time to Remove: 1.792E+04 [day]

Radon Release Fraction: 0.000E+00

Contamination::

Nuclide Concentration Dose Conversion Factor (Library: FGR 11)

	[dpm/m2]	Dose Conversion Factor (Library: FGR 11)		
		Ingestion [mrem/dpm]	Inhalation [mrem/dpm]	Submersion [mrem/yr/ (dpm/m3)]
AM-241	1.000E+02	1.640E-03	2.000E-01	4.304E-05
PU-240	1.000E+02	1.595E-03	1.932E-01	2.499E-07
PU-239	1.000E+02	1.595E-03	1.932E-01	2.231E-07
NP-237	1.000E+02	2.002E-03	2.432E-01	5.461E-04
U-238	1.000E+02	1.210E-04	5.317E-02	7.191E-05
U-236	0.000E+00	1.212E-04	5.631E-02	2.636E-07
U-235	1.000E+02	1.204E-04	5.541E-02	4.063E-04
U-234	1.000E+02	1.275E-04	5.946E-02	4.014E-07
U-233	0.000E+00	1.302E-04	6.081E-02	8.576E-07
PA-231	0.000E+00	4.775E-03	5.766E-01	9.049E-05
TH-232	0.000E+00	1.230E-03	7.387E-01	4.588E-07
TH-230	0.000E+00	2.468E-04	1.468E-01	9.155E-07
TH-229	0.000E+00	1.814E-03	9.768E-01	7.842E-04
TH-228	0.000E+00	3.642E-04	1.556E-01	4.224E-03
AC-227	0.000E+00	6.665E-03	3.029E+00	9.734E-04
RA-228	0.000E+00	6.496E-04	2.287E-03	2.515E-03
RA-226	0.000E+00	5.950E-04	3.871E-03	4.663E-03
PB-210	0.000E+00	2.422E-03	6.214E-03	4.698E-06
TC-99	1.000E+02	6.577E-07	3.748E-06	8.523E-08

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Source: 5

Location:: Room : 1 x: 18.00 y: 15.10 z: 3.70[m]

Geometry:: Type: Area Length[m]:3.02E+01 Width[m]:7.30E+00 Direction: x

Pathway ::

Direct Ingestion Rate: 6.140E-08 [1/hr]

Fraction released to air: 7.000E-02

Removable fraction: 1.000E-01

Time to Remove: 1.792E+04 [day]

Radon Release Fraction: 0.000E+00

Contamination::

Nuclide Concentration Dose Conversion Factor (Library: FGR 11)

	[dpm/m2]	Dose Conversion Factor (Library: FGR 11)		
		Ingestion [mrem/dpm]	Inhalation [mrem/dpm]	Submersion [mrem/yr/ (dpm/m3)]
AM-241	1.000E+02	1.640E-03	2.000E-01	4.304E-05
PU-240	1.000E+02	1.595E-03	1.932E-01	2.499E-07
PU-239	1.000E+02	1.595E-03	1.932E-01	2.231E-07
NP-237	1.000E+02	2.002E-03	2.432E-01	5.461E-04
U-238	1.000E+02	1.210E-04	5.317E-02	7.191E-05
U-236	0.000E+00	1.212E-04	5.631E-02	2.636E-07
U-235	1.000E+02	1.204E-04	5.541E-02	4.063E-04
U-234	1.000E+02	1.275E-04	5.946E-02	4.014E-07
U-233	0.000E+00	1.302E-04	6.081E-02	8.576E-07
PA-231	0.000E+00	4.775E-03	5.766E-01	9.049E-05
TH-232	0.000E+00	1.230E-03	7.387E-01	4.588E-07
TH-230	0.000E+00	2.468E-04	1.468E-01	9.155E-07
TH-229	0.000E+00	1.814E-03	9.768E-01	7.842E-04
TH-228	0.000E+00	3.642E-04	1.556E-01	4.224E-03
AC-227	0.000E+00	6.665E-03	3.029E+00	9.734E-04
RA-228	0.000E+00	6.496E-04	2.287E-03	2.515E-03
RA-226	0.000E+00	5.950E-04	3.871E-03	4.663E-03
PB-210	0.000E+00	2.422E-03	6.214E-03	4.698E-06
TC-99	1.000E+02	6.577E-07	3.748E-06	8.523E-08



Title : Large Warehouse - Occupancy

Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld

Source: 6

Location:: Room : 1 x: 9.00 y: 0.00 z: 3.70[m]

Geometry:: Type: Area Length[m]:1.80E+01 Width[m]:7.30E+00 Direction: y

Pathway ::

Direct Ingestion Rate: 6.140E-08 [1/hr]

Fraction released to air: 7.000E-02

Removable fraction: 1.000E-01

Time to Remove: 1.792E+04 [day]

Radon Release Fraction: 0.000E+00

Contamination::

Nuclide Concentration Dose Conversion Factor (Library: FGR 11)

	[dpm/m2]	Dose Conversion Factor (Library: FGR 11)		
		Ingestion [mrem/dpm]	Inhalation [mrem/dpm]	Submersion [mrem/yr/ (dpm/m3)]
AM-241	1.000E+02	1.640E-03	2.000E-01	4.304E-05
PU-240	1.000E+02	1.595E-03	1.932E-01	2.499E-07
PU-239	1.000E+02	1.595E-03	1.932E-01	2.231E-07
NP-237	1.000E+02	2.002E-03	2.432E-01	5.461E-04
U-238	1.000E+02	1.210E-04	5.317E-02	7.191E-05
U-236	0.000E+00	1.212E-04	5.631E-02	2.636E-07
U-235	1.000E+02	1.204E-04	5.541E-02	4.063E-04
U-234	1.000E+02	1.275E-04	5.946E-02	4.014E-07
U-233	0.000E+00	1.302E-04	6.081E-02	8.576E-07
PA-231	0.000E+00	4.775E-03	5.766E-01	9.049E-05
TH-232	0.000E+00	1.230E-03	7.387E-01	4.588E-07
TH-230	0.000E+00	2.468E-04	1.468E-01	9.155E-07
TH-229	0.000E+00	1.814E-03	9.768E-01	7.842E-04
TH-228	0.000E+00	3.642E-04	1.556E-01	4.224E-03
AC-227	0.000E+00	6.665E-03	3.029E+00	9.734E-04
RA-228	0.000E+00	6.496E-04	2.287E-03	2.515E-03
RA-226	0.000E+00	5.950E-04	3.871E-03	4.663E-03
PB-210	0.000E+00	2.422E-03	6.214E-03	4.698E-06
TC-99	1.000E+02	6.577E-07	3.748E-06	8.523E-08

Title : Large Warehouse - Occupancy

Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld

Evaluation Time: 0.0000000E+00 years

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

==== Source Information =====

Source: 1

Location:: Room : 1 x: 9.00 y: 15.10 z: 0.00 [m]  
Geometry:: Type: Area Length[m]:1.80E+01 Width[m]:3.02E+01 Direction: z  
Pathway ::  
Direct Ingestion Rate: 6.140E-08 [1/hr]  
Fraction released to air: 7.000E-02  
Removable fraction: 1.000E-01  
Time to Remove: 1.792E+04 [day]

Contamination::	Nuclide	Concentration [dpm/m2]
	AM-241	1.000E+02
	PU-240	1.000E+02
	PU-239	1.000E+02
	NP-237	1.000E+02
	U-238	1.000E+02
	U-236	0.000E+00
	U-235	1.000E+02
	U-234	1.000E+02
	U-233	0.000E+00
	PA-231	0.000E+00
	TH-232	0.000E+00
	TH-230	0.000E+00
	TH-229	0.000E+00
	TH-228	0.000E+00
	AC-227	0.000E+00
	RA-228	0.000E+00
	RA-226	0.000E+00
	PB-210	0.000E+00
	TC-99	1.000E+02

Title : Large Warehouse - Occupancy

Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld

Evaluation Time: 0.0000000E+00 years

Source: 2

Location:: Room : 1 x: 9.00 y: 15.10 z: 7.30 [m]

Geometry:: Type: Area Length[m]:1.80E+01 Width[m]:3.02E+01 Direction: z

Pathway ::

Direct Ingestion Rate: 6.140E-08 [1/hr]

Fraction released to air: 7.000E-02

Removable fraction: 1.000E-01

Time to Remove: 1.792E+04 [day]

Contamination::	Nuclide	Concentration [dpm/m2]
	AM-241	1.000E+02
	PU-240	1.000E+02
	PU-239	1.000E+02
	NP-237	1.000E+02
	U-238	1.000E+02
	U-236	0.000E+00
	U-235	1.000E+02
	U-234	1.000E+02
	U-233	0.000E+00
	PA-231	0.000E+00
	TH-232	0.000E+00
	TH-230	0.000E+00
	TH-229	0.000E+00
	TH-228	0.000E+00
	AC-227	0.000E+00
	RA-228	0.000E+00
	RA-226	0.000E+00
	PB-210	0.000E+00
	TC-99	1.000E+02

Source: 3

Location:: Room : 1 x: 0.00 y: 15.10 z: 3.70 [m]

Geometry:: Type: Area Length[m]:3.02E+01 Width[m]:7.30E+00 Direction: x

Pathway ::

Direct Ingestion Rate: 6.140E-08 [1/hr]

Fraction released to air: 7.000E-02

Removable fraction: 1.000E-01

Time to Remove: 1.792E+04 [day]

Contamination::	Nuclide	Concentration [dpm/m2]
	AM-241	1.000E+02
	PU-240	1.000E+02

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Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld

Evaluation Time: 0.0000000E+00 years

PU-239	1.000E+02
NP-237	1.000E+02
U-238	1.000E+02
U-236	0.000E+00
U-235	1.000E+02
U-234	1.000E+02
U-233	0.000E+00
PA-231	0.000E+00
TH-232	0.000E+00
TH-230	0.000E+00
TH-229	0.000E+00
TH-228	0.000E+00
AC-227	0.000E+00
RA-228	0.000E+00
RA-226	0.000E+00
PB-210	0.000E+00
TC-99	1.000E+02

Source: 4

Location:: Room : 1 x: 9.00 y: 30.20 z: 3.70 [m]

Geometry:: Type: Area Length[m]:1.80E+01 Width[m]:7.30E+00 Direction: y

Pathway ::

Direct Ingestion Rate: 6.140E-08 [1/hr]

Fraction released to air: 7.000E-02

Removable fraction: 1.000E-01

Time to Remove: 1.792E+04 [day]

Contamination::	Nuclide	Concentration [dpm/m2]
	AM-241	1.000E+02
	PU-240	1.000E+02
	PU-239	1.000E+02
	NP-237	1.000E+02
	U-238	1.000E+02
	U-236	0.000E+00
	U-235	1.000E+02
	U-234	1.000E+02
	U-233	0.000E+00
	PA-231	0.000E+00
	TH-232	0.000E+00
	TH-230	0.000E+00
	TH-229	0.000E+00
	TH-228	0.000E+00
	AC-227	0.000E+00
	RA-228	0.000E+00
	RA-226	0.000E+00
	PB-210	0.000E+00
	TC-99	1.000E+02

Title : Large Warehouse - Occupancy

Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld

Evaluation Time: 0.0000000E+00 years

Source: 5

Location:: Room : 1 x: 18.00 y: 15.10 z: 3.70 [m]

Geometry:: Type: Area Length[m]:3.02E+01 Width[m]:7.30E+00 Direction: x

Pathway ::

Direct Ingestion Rate: 6.140E-08 [1/hr]

Fraction released to air: 7.000E-02

Removable fraction: 1.000E-01

Time to Remove: 1.792E+04 [day]

Contamination::	Nuclide	Concentration
		[dpm/m2]
	AM-241	1.000E+02
	PU-240	1.000E+02
	PU-239	1.000E+02
	NP-237	1.000E+02
	U-238	1.000E+02
	U-236	0.000E+00
	U-235	1.000E+02
	U-234	1.000E+02
	U-233	0.000E+00
	PA-231	0.000E+00
	TH-232	0.000E+00
	TH-230	0.000E+00
	TH-229	0.000E+00
	TH-228	0.000E+00
	AC-227	0.000E+00
	RA-228	0.000E+00
	RA-226	0.000E+00
	PB-210	0.000E+00
	TC-99	1.000E+02

Source: 6

Location:: Room : 1 x: 9.00 y: 0.00 z: 3.70 [m]

Geometry:: Type: Area Length[m]:1.80E+01 Width[m]:7.30E+00 Direction: y

Pathway ::

Direct Ingestion Rate: 6.140E-08 [1/hr]

Fraction released to air: 7.000E-02

Removable fraction: 1.000E-01

Time to Remove: 1.792E+04 [day]

Contamination::	Nuclide	Concentration
		[dpm/m2]
	AM-241	1.000E+02
	PU-240	1.000E+02

Title : Large Warehouse - Occupancy

Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld

Evaluation Time: 0.0000000E+00 years

PU-239	1.000E+02
NP-237	1.000E+02
U-238	1.000E+02
U-236	0.000E+00
U-235	1.000E+02
U-234	1.000E+02
U-233	0.000E+00
PA-231	0.000E+00
TH-232	0.000E+00
TH-230	0.000E+00
TH-229	0.000E+00
TH-228	0.000E+00
AC-227	0.000E+00
RA-228	0.000E+00
RA-226	0.000E+00
PB-210	0.000E+00
TC-99	1.000E+02

Title : Large Warehouse - Occupancy

Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld

Evaluation Time: 0.0000000E+00 years

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RESRAD-BUILD Dose Tables

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Source Contributions to Receptor Doses

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[mrem]

	Source	Source	Source	Source	Source	Source	Total
	1	2	3	4	5	6	
Receptor 1	6.85E-03	6.62E-03	2.67E-03	1.59E-03	2.67E-03	1.59E-03	2.20E-02
Total	6.85E-03	6.62E-03	2.67E-03	1.59E-03	2.67E-03	1.59E-03	2.20E-02

Title : Large Warehouse - Occupancy

Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld

Evaluation Time: 0.0000000E+00 years

Pathway Detail of Doses

[mrem]

Source: 1

Receptor	External	Deposition	Immersion	Inhalation	Radon	Ingestion
1	3.32E-04	1.26E-09	7.76E-11	8.87E-04	1.94E-20	5.63E-03
Total	3.32E-04	1.26E-09	7.76E-11	8.87E-04	1.94E-20	5.63E-03

Source: 2

Receptor	External	Deposition	Immersion	Inhalation	Radon	Ingestion
1	1.05E-04	1.26E-09	7.76E-11	8.87E-04	1.94E-20	5.63E-03
Total	1.05E-04	1.26E-09	7.76E-11	8.87E-04	1.94E-20	5.63E-03

Source: 3

Receptor	External	Deposition	Immersion	Inhalation	Radon	Ingestion
1	3.19E-05	5.10E-10	3.15E-11	3.60E-04	7.88E-21	2.28E-03
Total	3.19E-05	5.10E-10	3.15E-11	3.60E-04	7.88E-21	2.28E-03

Source: 4

Receptor	External	Deposition	Immersion	Inhalation	Radon	Ingestion
1	1.05E-05	3.04E-10	1.88E-11	2.15E-04	4.70E-21	1.36E-03
Total	1.05E-05	3.04E-10	1.88E-11	2.15E-04	4.70E-21	1.36E-03

Source: 5

Receptor	External	Deposition	Immersion	Inhalation	Radon	Ingestion
1	3.19E-05	5.10E-10	3.15E-11	3.60E-04	7.88E-21	2.28E-03
Total	3.19E-05	5.10E-10	3.15E-11	3.60E-04	7.88E-21	2.28E-03

Source: 6

Receptor	External	Deposition	Immersion	Inhalation	Radon	Ingestion
1	1.05E-05	3.04E-10	1.88E-11	2.15E-04	4.70E-21	1.36E-03
Total	1.05E-05	3.04E-10	1.88E-11	2.15E-04	4.70E-21	1.36E-03



Title : Large Warehouse - Occupancy

Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld

Evaluation Time: 0.0000000E+00 years

Nuclide Detail of Doses

[mrem]

Source: 1

Nuclide	Receptor	Total
	1	
AM-241	1.49E-03	1.49E-03
NP-237	3.14E-10	3.14E-10
U-233	3.68E-17	3.68E-17
TH-229	1.39E-20	1.39E-20
PU-240	1.42E-03	1.42E-03
U-236	2.15E-12	2.15E-12
TH-232	3.92E-22	3.92E-22
RA-228		
TH-228	6.66E-25	6.66E-25
PU-239	1.42E-03	1.42E-03
U-235	1.29E-13	1.29E-13
PA-231	1.48E-17	1.48E-17
AC-227	2.23E-19	2.23E-19
NP-237	1.94E-03	1.94E-03
U-233	3.41E-10	3.41E-10
TH-229	1.72E-13	1.72E-13
U-238	1.65E-04	1.65E-04
U-234	2.17E-10	2.17E-10
TH-230	1.37E-15	1.37E-15
RA-226	7.30E-19	7.30E-19
PB-210	5.39E-21	5.39E-21
U-235	2.62E-04	2.62E-04
PA-231	4.51E-08	4.51E-08
AC-227	9.05E-10	9.05E-10
U-234	1.54E-04	1.54E-04
TH-230	1.46E-09	1.46E-09
RA-226	1.03E-12	1.03E-12
PB-210	9.49E-15	9.49E-15
TC-99	5.73E-07	5.73E-07

Source: 2

Nuclide	Receptor	Total
	1	
AM-241	1.47E-03	1.47E-03
NP-237	2.97E-10	2.97E-10
U-233	3.66E-17	3.66E-17
TH-229	1.31E-20	1.31E-20

Title : Large Warehouse - Occupancy

Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld

Evaluation Time: 0.0000000E+00 years

PU-240	1.42E-03	1.42E-03
U-236	2.14E-12	2.14E-12
TH-232	3.92E-22	3.92E-22
RA-228		
TH-228	3.53E-25	3.53E-25
PU-239	1.42E-03	1.42E-03
U-235	8.92E-14	8.92E-14
PA-231	1.47E-17	1.47E-17
AC-227	2.18E-19	2.18E-19
NP-237	1.83E-03	1.83E-03
U-233	3.39E-10	3.39E-10
TH-229	1.62E-13	1.62E-13
U-238	1.49E-04	1.49E-04
U-234	2.16E-10	2.16E-10
TH-230	1.37E-15	1.37E-15
RA-226	3.78E-19	3.78E-19
PB-210	5.38E-21	5.38E-21
U-235	1.81E-04	1.81E-04
PA-231	4.48E-08	4.48E-08
AC-227	8.85E-10	8.85E-10
U-234	1.53E-04	1.53E-04
TH-230	1.45E-09	1.45E-09
RA-226	5.35E-13	5.35E-13
PB-210	9.48E-15	9.48E-15
TC-99	5.37E-07	5.37E-07

Source: 3

Nuclide	Receptor	Total
1		
AM-241	5.94E-04	5.94E-04
NP-237	1.19E-10	1.19E-10
U-233	1.48E-17	1.48E-17
TH-229	5.26E-21	5.26E-21
PU-240	5.75E-04	5.75E-04
U-236	8.69E-13	8.69E-13
TH-232	1.59E-22	1.59E-22
RA-228		
TH-228	1.28E-25	1.28E-25
PU-239	5.75E-04	5.75E-04
U-235	3.43E-14	3.43E-14
PA-231	5.96E-18	5.96E-18
AC-227	8.82E-20	8.82E-20
NP-237	7.38E-04	7.38E-04
U-233	1.38E-10	1.38E-10
TH-229	6.50E-14	6.50E-14
U-238	5.98E-05	5.98E-05
U-234	8.76E-11	8.76E-11
TH-230	5.56E-16	5.56E-16
RA-226	1.37E-19	1.37E-19

Title : Large Warehouse - Occupancy

Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld

Evaluation Time: 0.0000000E+00 years

PB-210	2.18E-21	2.18E-21
U-235	6.97E-05	6.97E-05
PA-231	1.82E-08	1.82E-08
AC-227	3.58E-10	3.58E-10
U-234	6.19E-05	6.19E-05
TH-230	5.90E-10	5.90E-10
RA-226	1.93E-13	1.93E-13
PB-210	3.84E-15	3.84E-15
TC-99	2.16E-07	2.16E-07

Source: 4

Nuclide	Receptor	Total
	1	
AM-241	3.54E-04	3.54E-04
NP-237	7.05E-11	7.05E-11
U-233	8.85E-18	8.85E-18
TH-229	3.10E-21	3.10E-21
PU-240	3.43E-04	3.43E-04
U-236	5.18E-13	5.18E-13
TH-232	9.47E-23	9.47E-23
RA-228		
TH-228	6.43E-26	6.43E-26
PU-239	3.43E-04	3.43E-04
U-235	1.89E-14	1.89E-14
PA-231	3.55E-18	3.55E-18
AC-227	5.24E-20	5.24E-20
NP-237	4.36E-04	4.36E-04
U-233	8.20E-11	8.20E-11
TH-229	3.83E-14	3.83E-14
U-238	3.50E-05	3.50E-05
U-234	5.22E-11	5.22E-11
TH-230	3.31E-16	3.31E-16
RA-226	6.79E-20	6.79E-20
PB-210	1.30E-21	1.30E-21
U-235	3.85E-05	3.85E-05
PA-231	1.08E-08	1.08E-08
AC-227	2.13E-10	2.13E-10
U-234	3.69E-05	3.69E-05
TH-230	3.52E-10	3.52E-10
RA-226	9.59E-14	9.59E-14
PB-210	2.29E-15	2.29E-15
TC-99	1.27E-07	1.27E-07

Title : Large Warehouse - Occupancy

Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld

Evaluation Time: 0.0000000E+00 years

Source: 5

Nuclide	Receptor	Total
	1	
AM-241	5.94E-04	5.94E-04
NP-237	1.19E-10	1.19E-10
U-233	1.48E-17	1.48E-17
TH-229	5.26E-21	5.26E-21
PU-240	5.75E-04	5.75E-04
U-236	8.69E-13	8.69E-13
TH-232	1.59E-22	1.59E-22
RA-228		
TH-228	1.28E-25	1.28E-25
PU-239	5.75E-04	5.75E-04
U-235	3.43E-14	3.43E-14
PA-231	5.96E-18	5.96E-18
AC-227	8.82E-20	8.82E-20
NP-237	7.38E-04	7.38E-04
U-233	1.38E-10	1.38E-10
TH-229	6.50E-14	6.50E-14
U-238	5.98E-05	5.98E-05
U-234	8.76E-11	8.76E-11
TH-230	5.56E-16	5.56E-16
RA-226	1.37E-19	1.37E-19
PB-210	2.18E-21	2.18E-21
U-235	6.97E-05	6.97E-05
PA-231	1.82E-08	1.82E-08
AC-227	3.58E-10	3.58E-10
U-234	6.19E-05	6.19E-05
TH-230	5.90E-10	5.90E-10
RA-226	1.93E-13	1.93E-13
PB-210	3.84E-15	3.84E-15
TC-99	2.16E-07	2.16E-07

Source: 6

Nuclide	Receptor	Total
	1	
AM-241	3.54E-04	3.54E-04
NP-237	7.05E-11	7.05E-11
U-233	8.85E-18	8.85E-18
TH-229	3.10E-21	3.10E-21
PU-240	3.43E-04	3.43E-04
U-236	5.18E-13	5.18E-13
TH-232	9.47E-23	9.47E-23
RA-228		
TH-228	6.43E-26	6.43E-26

Title : Large Warehouse - Occupancy

Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld

Evaluation Time: 0.0000000E+00 years

PU-239	3.43E-04	3.43E-04
U-235	1.89E-14	1.89E-14
PA-231	3.55E-18	3.55E-18
AC-227	5.24E-20	5.24E-20
NP-237	4.36E-04	4.36E-04
U-233	8.20E-11	8.20E-11
TH-229	3.83E-14	3.83E-14
U-238	3.50E-05	3.50E-05
U-234	5.22E-11	5.22E-11
TH-230	3.31E-16	3.31E-16
RA-226	6.79E-20	6.79E-20
PB-210	1.30E-21	1.30E-21
U-235	3.85E-05	3.85E-05
PA-231	1.08E-08	1.08E-08
AC-227	2.13E-10	2.13E-10
U-234	3.69E-05	3.69E-05
TH-230	3.52E-10	3.52E-10
RA-226	9.59E-14	9.59E-14
PB-210	2.29E-15	2.29E-15
TC-99	1.27E-07	1.27E-07

Title : Large Warehouse - Occupancy

Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld

Evaluation Time: 1.00000000 years

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

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

Source: 1

Location:: Room : 1 x: 9.00 y: 15.10 z: 0.00 [m]  
Geometry:: Type: Area Length[m]:1.80E+01 Width[m]:3.02E+01 Direction: z  
Pathway ::  
Direct Ingestion Rate: 6.140E-08 [1/hr]  
Fraction released to air: 7.000E-02  
Removable fraction: 9.816E-02  
Time to Remove: 1.792E+04 [day]

Contamination::	Nuclide	Concentration [dpm/m2]
	AM-241	9.964E+01
	PU-240	9.979E+01
	PU-239	9.979E+01
	NP-237	9.980E+01
	U-238	9.980E+01
	U-236	2.956E-06
	U-235	9.980E+01
	U-234	9.980E+01
	U-233	4.351E-04
	PA-231	2.109E-03
	TH-232	7.266E-17
	TH-230	8.984E-04
	TH-229	2.054E-08
	TH-228	2.409E-19
	AC-227	3.317E-05
	RA-228	2.834E-18
	RA-226	1.946E-07
	PB-210	2.000E-09
	TC-99	9.980E+01

Title : Large Warehouse - Occupancy  
 Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld  
 Evaluation Time: 1.00000000 years

Source: 2

Location:: Room : 1 x: 9.00 y: 15.10 z: 7.30 [m]  
 Geometry:: Type: Area Length[m]:1.80E+01 Width[m]:3.02E+01 Direction: z  
 Pathway ::  
 Direct Ingestion Rate: 6.140E-08 [1/hr]  
 Fraction released to air: 7.000E-02  
 Removable fraction: 9.816E-02  
 Time to Remove: 1.792E+04 [day]

Contamination::	Nuclide	Concentration [dpm/m2]
	AM-241	9.964E+01
	PU-240	9.979E+01
	PU-239	9.979E+01
	NP-237	9.980E+01
	U-238	9.980E+01
	U-236	2.956E-06
	U-235	9.980E+01
	U-234	9.980E+01
	U-233	4.351E-04
	PA-231	2.109E-03
	TH-232	7.266E-17
	TH-230	8.984E-04
	TH-229	2.054E-08
	TH-228	2.409E-19
	AC-227	3.317E-05
	RA-228	2.834E-18
	RA-226	1.946E-07
	PB-210	2.000E-09
	TC-99	9.980E+01

Source: 3

Location:: Room : 1 x: 0.00 y: 15.10 z: 3.70 [m]  
 Geometry:: Type: Area Length[m]:3.02E+01 Width[m]:7.30E+00 Direction: x  
 Pathway ::  
 Direct Ingestion Rate: 6.140E-08 [1/hr]  
 Fraction released to air: 7.000E-02  
 Removable fraction: 9.816E-02  
 Time to Remove: 1.792E+04 [day]

Contamination::	Nuclide	Concentration [dpm/m2]
	AM-241	9.964E+01
	PU-240	9.979E+01

Title : Large Warehouse - Occupancy

Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld

Evaluation Time: 1.00000000 years

PU-239	9.979E+01
NP-237	9.980E+01
U-238	9.980E+01
U-236	2.956E-06
U-235	9.980E+01
U-234	9.980E+01
U-233	4.351E-04
PA-231	2.109E-03
TH-232	7.266E-17
TH-230	8.984E-04
TH-229	2.054E-08
TH-228	2.409E-19
AC-227	3.317E-05
RA-228	2.834E-18
RA-226	1.946E-07
PB-210	2.000E-09
TC-99	9.980E+01

Source: 4

Location:: Room : 1 x: 9.00 y: 30.20 z: 3.70 [m]

Geometry:: Type: Area Length[m]:1.80E+01 Width[m]:7.30E+00 Direction: y

Pathway ::

Direct Ingestion Rate: 6.140E-08 [1/hr]

Fraction released to air: 7.000E-02

Removable fraction: 9.816E-02

Time to Remove: 1.792E+04 [day]

Contamination::	Nuclide	Concentration [dpm/m2]
	AM-241	9.964E+01
	PU-240	9.979E+01
	PU-239	9.979E+01
	NP-237	9.980E+01
	U-238	9.980E+01
	U-236	2.956E-06
	U-235	9.980E+01
	U-234	9.980E+01
	U-233	4.351E-04
	PA-231	2.109E-03
	TH-232	7.266E-17
	TH-230	8.984E-04
	TH-229	2.054E-08
	TH-228	2.409E-19
	AC-227	3.317E-05
	RA-228	2.834E-18
	RA-226	1.946E-07
	PB-210	2.000E-09
	TC-99	9.980E+01



Title : Large Warehouse - Occupancy  
Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld  
Evaluation Time: 1.00000000 years

Source: 5

Location:: Room : 1 x: 18.00 y: 15.10 z: 3.70 [m]  
Geometry:: Type: Area Length[m]:3.02E+01 Width[m]:7.30E+00 Direction: x  
Pathway ::  
Direct Ingestion Rate: 6.140E-08 [1/hr]  
Fraction released to air: 7.000E-02  
Removable fraction: 9.816E-02  
Time to Remove: 1.792E+04 [day]

Contamination::	Nuclide	Concentration [dpm/m2]
	AM-241	9.964E+01
	PU-240	9.979E+01
	PU-239	9.979E+01
	NP-237	9.980E+01
	U-238	9.980E+01
	U-236	2.956E-06
	U-235	9.980E+01
	U-234	9.980E+01
	U-233	4.351E-04
	PA-231	2.109E-03
	TH-232	7.266E-17
	TH-230	8.984E-04
	TH-229	2.054E-08
	TH-228	2.409E-19
	AC-227	3.317E-05
	RA-228	2.834E-18
	RA-226	1.946E-07
	PB-210	2.000E-09
	TC-99	9.980E+01

Source: 6

Location:: Room : 1 x: 9.00 y: 0.00 z: 3.70 [m]  
Geometry:: Type: Area Length[m]:1.80E+01 Width[m]:7.30E+00 Direction: y  
Pathway ::  
Direct Ingestion Rate: 6.140E-08 [1/hr]  
Fraction released to air: 7.000E-02  
Removable fraction: 9.816E-02  
Time to Remove: 1.792E+04 [day]

Contamination::	Nuclide	Concentration [dpm/m2]
	AM-241	9.964E+01
	PU-240	9.979E+01

Title : Large Warehouse - Occupancy

Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld

Evaluation Time: 1.00000000 years

PU-239	9.979E+01
NP-237	9.980E+01
U-238	9.980E+01
U-236	2.956E-06
U-235	9.980E+01
U-234	9.980E+01
U-233	4.351E-04
PA-231	2.109E-03
TH-232	7.266E-17
TH-230	8.984E-04
TH-229	2.054E-08
TH-228	2.409E-19
AC-227	3.317E-05
RA-228	2.834E-18
RA-226	1.946E-07
PB-210	2.000E-09
TC-99	9.980E+01

Title : Large Warehouse - Occupancy

Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld

Evaluation Time: 1.00000000 years

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RESRAD-BUILD Dose Tables

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Source Contributions to Receptor Doses

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[mrem]

	Source	Source	Source	Source	Source	Source	Total
	1	2	3	4	5	6	
Receptor 1	6.73E-03	6.50E-03	2.63E-03	1.56E-03	2.63E-03	1.56E-03	2.16E-02
Total	6.73E-03	6.50E-03	2.63E-03	1.56E-03	2.63E-03	1.56E-03	2.16E-02

Title : Large Warehouse - Occupancy

Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld

Evaluation Time: 1.00000000 years

Pathway Detail of Doses

[mrem]

Source: 1

Receptor	External	Deposition	Immersion	Inhalation	Radon	Ingestion
1	3.31E-04	1.26E-09	7.76E-11	8.87E-04	1.36E-19	5.51E-03
Total	3.31E-04	1.26E-09	7.76E-11	8.87E-04	1.36E-19	5.51E-03

Source: 2

Receptor	External	Deposition	Immersion	Inhalation	Radon	Ingestion
1	1.05E-04	1.26E-09	7.76E-11	8.87E-04	1.36E-19	5.51E-03
Total	1.05E-04	1.26E-09	7.76E-11	8.87E-04	1.36E-19	5.51E-03

Source: 3

Receptor	External	Deposition	Immersion	Inhalation	Radon	Ingestion
1	3.18E-05	5.10E-10	3.15E-11	3.60E-04	5.52E-20	2.24E-03
Total	3.18E-05	5.10E-10	3.15E-11	3.60E-04	5.52E-20	2.24E-03

Source: 4

Receptor	External	Deposition	Immersion	Inhalation	Radon	Ingestion
1	1.05E-05	3.04E-10	1.88E-11	2.14E-04	3.29E-20	1.33E-03
Total	1.05E-05	3.04E-10	1.88E-11	2.14E-04	3.29E-20	1.33E-03

Source: 5

Receptor	External	Deposition	Immersion	Inhalation	Radon	Ingestion
1	3.18E-05	5.10E-10	3.15E-11	3.60E-04	5.52E-20	2.24E-03
Total	3.18E-05	5.10E-10	3.15E-11	3.60E-04	5.52E-20	2.24E-03

Source: 6

Receptor	External	Deposition	Immersion	Inhalation	Radon	Ingestion
1	1.05E-05	3.04E-10	1.88E-11	2.14E-04	3.29E-20	1.33E-03
Total	1.05E-05	3.04E-10	1.88E-11	2.14E-04	3.29E-20	1.33E-03

Title : Large Warehouse - Occupancy

Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld

Evaluation Time: 1.00000000 years

Nuclide Detail of Doses

[mrem]

Source: 1

Nuclide	Receptor	Total
	1	
AM-241	1.46E-03	1.46E-03
NP-237	9.27E-10	9.27E-10
U-233	2.54E-16	2.54E-16
TH-229	2.07E-19	2.07E-19
PU-240	1.39E-03	1.39E-03
U-236	6.38E-12	6.38E-12
TH-232	2.71E-21	2.71E-21
RA-228		
TH-228	1.89E-23	1.89E-23
PU-239	1.39E-03	1.39E-03
U-235	3.84E-13	3.84E-13
PA-231	1.02E-16	1.02E-16
AC-227	3.29E-18	3.29E-18
NP-237	1.91E-03	1.91E-03
U-233	1.01E-09	1.01E-09
TH-229	1.19E-12	1.19E-12
U-238	1.63E-04	1.63E-04
U-234	6.43E-10	6.43E-10
TH-230	9.51E-15	9.51E-15
RA-226	1.09E-17	1.09E-17
PB-210	1.63E-19	1.63E-19
U-235	2.60E-04	2.60E-04
PA-231	1.33E-07	1.33E-07
AC-227	6.21E-09	6.21E-09
U-234	1.51E-04	1.51E-04
TH-230	4.32E-09	4.32E-09
RA-226	7.18E-12	7.18E-12
PB-210	1.39E-13	1.39E-13
TC-99	5.62E-07	5.62E-07

Source: 2

Nuclide	Receptor	Total
	1	
AM-241	1.44E-03	1.44E-03
NP-237	8.74E-10	8.74E-10
U-233	2.53E-16	2.53E-16
TH-229	1.94E-19	1.94E-19

Title : Large Warehouse - Occupancy  
 Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld  
 Evaluation Time: 1.00000000 years

PU-240	1.39E-03	1.39E-03
U-236	6.35E-12	6.35E-12
TH-232	2.71E-21	2.71E-21
RA-228		
TH-228	1.00E-23	1.00E-23
PU-239	1.39E-03	1.39E-03
U-235	2.65E-13	2.65E-13
PA-231	1.01E-16	1.01E-16
AC-227	3.21E-18	3.21E-18
NP-237	1.80E-03	1.80E-03
U-233	1.01E-09	1.01E-09
TH-229	1.12E-12	1.12E-12
U-238	1.47E-04	1.47E-04
U-234	6.39E-10	6.39E-10
TH-230	9.50E-15	9.50E-15
RA-226	5.61E-18	5.61E-18
PB-210	1.63E-19	1.63E-19
U-235	1.79E-04	1.79E-04
PA-231	1.32E-07	1.32E-07
AC-227	6.07E-09	6.07E-09
U-234	1.51E-04	1.51E-04
TH-230	4.32E-09	4.32E-09
RA-226	3.70E-12	3.70E-12
PB-210	1.39E-13	1.39E-13
TC-99	5.26E-07	5.26E-07

Source: 3

Nuclide	Receptor	Total
	1	
AM-241	5.83E-04	5.83E-04
NP-237	3.52E-10	3.52E-10
U-233	1.03E-16	1.03E-16
TH-229	7.80E-20	7.80E-20
PU-240	5.65E-04	5.65E-04
U-236	2.57E-12	2.57E-12
TH-232	1.10E-21	1.10E-21
RA-228		
TH-228	3.63E-24	3.63E-24
PU-239	5.65E-04	5.65E-04
U-235	1.02E-13	1.02E-13
PA-231	4.11E-17	4.11E-17
AC-227	1.30E-18	1.30E-18
NP-237	7.25E-04	7.25E-04
U-233	4.08E-10	4.08E-10
TH-229	4.50E-13	4.50E-13
U-238	5.90E-05	5.90E-05
U-234	2.59E-10	2.59E-10
TH-230	3.85E-15	3.85E-15
RA-226	2.02E-18	2.02E-18

Title : Large Warehouse - Occupancy

Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld

Evaluation Time: 1.00000000 years

PB-210	6.60E-20	6.60E-20
U-235	6.89E-05	6.89E-05
PA-231	5.36E-08	5.36E-08
AC-227	2.45E-09	2.45E-09
U-234	6.11E-05	6.11E-05
TH-230	1.75E-09	1.75E-09
RA-226	1.33E-12	1.33E-12
PB-210	5.63E-14	5.63E-14
TC-99	2.12E-07	2.12E-07

Source: 4

Nuclide	Receptor	Total
	1	
AM-241	3.47E-04	3.47E-04
NP-237	2.08E-10	2.08E-10
U-233	6.12E-17	6.12E-17
TH-229	4.60E-20	4.60E-20
PU-240	3.37E-04	3.37E-04
U-236	1.53E-12	1.53E-12
TH-232	6.56E-22	6.56E-22
RA-228		
TH-228	1.82E-24	1.82E-24
PU-239	3.37E-04	3.37E-04
U-235	5.61E-14	5.61E-14
PA-231	2.45E-17	2.45E-17
AC-227	7.72E-19	7.72E-19
NP-237	4.28E-04	4.28E-04
U-233	2.43E-10	2.43E-10
TH-229	2.65E-13	2.65E-13
U-238	3.46E-05	3.46E-05
U-234	1.54E-10	1.54E-10
TH-230	2.29E-15	2.29E-15
RA-226	1.00E-18	1.00E-18
PB-210	3.93E-20	3.93E-20
U-235	3.80E-05	3.80E-05
PA-231	3.19E-08	3.19E-08
AC-227	1.46E-09	1.46E-09
U-234	3.64E-05	3.64E-05
TH-230	1.04E-09	1.04E-09
RA-226	6.62E-13	6.62E-13
PB-210	3.35E-14	3.35E-14
TC-99	1.25E-07	1.25E-07

Title : Large Warehouse - Occupancy  
 Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld  
 Evaluation Time: 1.00000000 years

Source: 5

Nuclide	Receptor	Total
	1	
AM-241	5.83E-04	5.83E-04
NP-237	3.52E-10	3.52E-10
U-233	1.03E-16	1.03E-16
TH-229	7.80E-20	7.80E-20
PU-240	5.65E-04	5.65E-04
U-236	2.57E-12	2.57E-12
TH-232	1.10E-21	1.10E-21
RA-228		
TH-228	3.63E-24	3.63E-24
PU-239	5.65E-04	5.65E-04
U-235	1.02E-13	1.02E-13
PA-231	4.11E-17	4.11E-17
AC-227	1.30E-18	1.30E-18
NP-237	7.25E-04	7.25E-04
U-233	4.08E-10	4.08E-10
TH-229	4.50E-13	4.50E-13
U-238	5.90E-05	5.90E-05
U-234	2.59E-10	2.59E-10
TH-230	3.85E-15	3.85E-15
RA-226	2.02E-18	2.02E-18
PB-210	6.60E-20	6.60E-20
U-235	6.89E-05	6.89E-05
PA-231	5.36E-08	5.36E-08
AC-227	2.45E-09	2.45E-09
U-234	6.11E-05	6.11E-05
TH-230	1.75E-09	1.75E-09
RA-226	1.33E-12	1.33E-12
PB-210	5.63E-14	5.63E-14
TC-99	2.12E-07	2.12E-07

Source: 6

Nuclide	Receptor	Total
	1	
AM-241	3.47E-04	3.47E-04
NP-237	2.08E-10	2.08E-10
U-233	6.12E-17	6.12E-17
TH-229	4.60E-20	4.60E-20
PU-240	3.37E-04	3.37E-04
U-236	1.53E-12	1.53E-12
TH-232	6.56E-22	6.56E-22
RA-228		
TH-228	1.82E-24	1.82E-24



Title : Large Warehouse - Occupancy

Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld

Evaluation Time: 1.00000000 years

PU-239	3.37E-04	3.37E-04
U-235	5.61E-14	5.61E-14
PA-231	2.45E-17	2.45E-17
AC-227	7.72E-19	7.72E-19
NP-237	4.28E-04	4.28E-04
U-233	2.43E-10	2.43E-10
TH-229	2.65E-13	2.65E-13
U-238	3.46E-05	3.46E-05
U-234	1.54E-10	1.54E-10
TH-230	2.29E-15	2.29E-15
RA-226	1.00E-18	1.00E-18
PB-210	3.93E-20	3.93E-20
U-235	3.80E-05	3.80E-05
PA-231	3.19E-08	3.19E-08
AC-227	1.46E-09	1.46E-09
U-234	3.64E-05	3.64E-05
TH-230	1.04E-09	1.04E-09
RA-226	6.62E-13	6.62E-13
PB-210	3.35E-14	3.35E-14
TC-99	1.25E-07	1.25E-07

Title : Large Warehouse - Occupancy

Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld

Evaluation Time: 30.0000000 years

```
=====
=====
=====
Assessment for Time: 3
Time =3.00E+01 yr
=====
=====
```

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

Source: 1

Location:: Room : 1 x: 9.00 y: 15.10 z: 0.00 [m]  
Geometry:: Type: Area Length[m]:1.80E+01 Width[m]:3.02E+01 Direction: z  
Pathway ::  
Direct Ingestion Rate: 6.140E-08 [1/hr]  
Fraction released to air: 7.000E-02  
Removable fraction: 4.138E-02  
Time to Remove: 1.792E+04 [day]

Contamination::	Nuclide	Concentration [dpm/m2]
	AM-241	8.947E+01
	PU-240	9.359E+01
	PU-239	9.380E+01
	NP-237	9.388E+01
	U-238	9.388E+01
	U-236	8.330E-05
	U-235	9.388E+01
	U-234	9.388E+01
	U-233	1.228E-02
	PA-231	5.950E-02
	TH-232	6.146E-14
	TH-230	2.535E-02
	TH-229	1.738E-05
	TH-228	2.936E-14
	AC-227	2.116E-02
	RA-228	3.662E-14
	RA-226	1.640E-04
	PB-210	4.105E-05
	TC-99	9.388E+01

Title : Large Warehouse - Occupancy  
 Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld  
 Evaluation Time: 30.0000000 years

Source: 2

Location:: Room : 1 x: 9.00 y: 15.10 z: 7.30 [m]  
 Geometry:: Type: Area Length[m]:1.80E+01 Width[m]:3.02E+01 Direction: z  
 Pathway ::  
 Direct Ingestion Rate: 6.140E-08 [1/hr]  
 Fraction released to air: 7.000E-02  
 Removable fraction: 4.138E-02  
 Time to Remove: 1.792E+04 [day]

Contamination::	Nuclide	Concentration [dpm/m2]
	AM-241	8.947E+01
	PU-240	9.359E+01
	PU-239	9.380E+01
	NP-237	9.388E+01
	U-238	9.388E+01
	U-236	8.330E-05
	U-235	9.388E+01
	U-234	9.388E+01
	U-233	1.228E-02
	PA-231	5.950E-02
	TH-232	6.146E-14
	TH-230	2.535E-02
	TH-229	1.738E-05
	TH-228	2.936E-14
	AC-227	2.116E-02
	RA-228	3.662E-14
	RA-226	1.640E-04
	PB-210	4.105E-05
	TC-99	9.388E+01

Source: 3

Location:: Room : 1 x: 0.00 y: 15.10 z: 3.70 [m]  
 Geometry:: Type: Area Length[m]:3.02E+01 Width[m]:7.30E+00 Direction: x  
 Pathway ::  
 Direct Ingestion Rate: 6.140E-08 [1/hr]  
 Fraction released to air: 7.000E-02  
 Removable fraction: 4.138E-02  
 Time to Remove: 1.792E+04 [day]

Contamination::	Nuclide	Concentration [dpm/m2]
	AM-241	8.947E+01
	PU-240	9.359E+01

Title : Large Warehouse - Occupancy

Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld

Evaluation Time: 30.000000 years

PU-239	9.380E+01
NP-237	9.388E+01
U-238	9.388E+01
U-236	8.330E-05
U-235	9.388E+01
U-234	9.388E+01
U-233	1.228E-02
PA-231	5.950E-02
TH-232	6.146E-14
TH-230	2.535E-02
TH-229	1.738E-05
TH-228	2.936E-14
AC-227	2.116E-02
RA-228	3.662E-14
RA-226	1.640E-04
PB-210	4.105E-05
TC-99	9.388E+01

Source: 4

Location:: Room : 1 x: 9.00 y: 30.20 z: 3.70 [m]

Geometry:: Type: Area Length[m]:1.80E+01 Width[m]:7.30E+00 Direction: y

Pathway ::

Direct Ingestion Rate: 6.140E-08 [1/hr]

Fraction released to air: 7.000E-02

Removable fraction: 4.138E-02

Time to Remove: 1.792E+04 [day]

Contamination::	Nuclide	Concentration [dpm/m2]
	AM-241	8.947E+01
	PU-240	9.359E+01
	PU-239	9.380E+01
	NP-237	9.388E+01
	U-238	9.388E+01
	U-236	8.330E-05
	U-235	9.388E+01
	U-234	9.388E+01
	U-233	1.228E-02
	PA-231	5.950E-02
	TH-232	6.146E-14
	TH-230	2.535E-02
	TH-229	1.738E-05
	TH-228	2.936E-14
	AC-227	2.116E-02
	RA-228	3.662E-14
	RA-226	1.640E-04
	PB-210	4.105E-05
	TC-99	9.388E+01

Title : Large Warehouse - Occupancy  
Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld  
Evaluation Time: 30.0000000 years

Source: 5

Location:: Room : 1 x: 18.00 y: 15.10 z: 3.70 [m]  
Geometry:: Type: Area Length[m]:3.02E+01 Width[m]:7.30E+00 Direction: x  
Pathway ::  
Direct Ingestion Rate: 6.140E-08 [1/hr]  
Fraction released to air: 7.000E-02  
Removable fraction: 4.138E-02  
Time to Remove: 1.792E+04 [day]

Contamination::	Nuclide	Concentration [dpm/m2]
	AM-241	8.947E+01
	PU-240	9.359E+01
	PU-239	9.380E+01
	NP-237	9.388E+01
	U-238	9.388E+01
	U-236	8.330E-05
	U-235	9.388E+01
	U-234	9.388E+01
	U-233	1.228E-02
	PA-231	5.950E-02
	TH-232	6.146E-14
	TH-230	2.535E-02
	TH-229	1.738E-05
	TH-228	2.936E-14
	AC-227	2.116E-02
	RA-228	3.662E-14
	RA-226	1.640E-04
	PB-210	4.105E-05
	TC-99	9.388E+01

Source: 6

Location:: Room : 1 x: 9.00 y: 0.00 z: 3.70 [m]  
Geometry:: Type: Area Length[m]:1.80E+01 Width[m]:7.30E+00 Direction: y  
Pathway ::  
Direct Ingestion Rate: 6.140E-08 [1/hr]  
Fraction released to air: 7.000E-02  
Removable fraction: 4.138E-02  
Time to Remove: 1.792E+04 [day]

Contamination::	Nuclide	Concentration [dpm/m2]
	AM-241	8.947E+01
	PU-240	9.359E+01

Title : Large Warehouse - Occupancy

Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld

Evaluation Time: 30.000000 years

PU-239	9.380E+01
NP-237	9.388E+01
U-238	9.388E+01
U-236	8.330E-05
U-235	9.388E+01
U-234	9.388E+01
U-233	1.228E-02
PA-231	5.950E-02
TH-232	6.146E-14
TH-230	2.535E-02
TH-229	1.738E-05
TH-228	2.936E-14
AC-227	2.116E-02
RA-228	3.662E-14
RA-226	1.640E-04
PB-210	4.105E-05
TC-99	9.388E+01

Title : Large Warehouse - Occupancy

Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld

Evaluation Time: 30.0000000 years

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RESRAD-BUILD Dose Tables

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Source Contributions to Receptor Doses

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[mrem]

	Source	Source	Source	Source	Source	Source	Total
	1	2	3	4	5	6	
Receptor 1	3.32E-03	3.11E-03	1.25E-03	7.37E-04	1.25E-03	7.37E-04	1.04E-02
Total	3.32E-03	3.11E-03	1.25E-03	7.37E-04	1.25E-03	7.37E-04	1.04E-02

Title : Large Warehouse - Occupancy

Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld

Evaluation Time: 30.0000000 years

Pathway Detail of Doses

[mrem]

Source: 1

Receptor	External	Deposition	Immersion	Inhalation	Radon	Ingestion
1	3.11E-04	1.25E-09	7.74E-11	8.79E-04	5.40E-17	2.13E-03
Total	3.11E-04	1.25E-09	7.74E-11	8.79E-04	5.40E-17	2.13E-03

Source: 2

Receptor	External	Deposition	Immersion	Inhalation	Radon	Ingestion
1	9.82E-05	1.25E-09	7.74E-11	8.79E-04	5.40E-17	2.13E-03
Total	9.82E-05	1.25E-09	7.74E-11	8.79E-04	5.40E-17	2.13E-03

Source: 3

Receptor	External	Deposition	Immersion	Inhalation	Radon	Ingestion
1	2.98E-05	5.08E-10	3.14E-11	3.57E-04	2.19E-17	8.63E-04
Total	2.98E-05	5.08E-10	3.14E-11	3.57E-04	2.19E-17	8.63E-04

Source: 4

Receptor	External	Deposition	Immersion	Inhalation	Radon	Ingestion
1	9.82E-06	3.03E-10	1.87E-11	2.13E-04	1.30E-17	5.14E-04
Total	9.82E-06	3.03E-10	1.87E-11	2.13E-04	1.30E-17	5.14E-04

Source: 5

Receptor	External	Deposition	Immersion	Inhalation	Radon	Ingestion
1	2.98E-05	5.08E-10	3.14E-11	3.57E-04	2.19E-17	8.63E-04
Total	2.98E-05	5.08E-10	3.14E-11	3.57E-04	2.19E-17	8.63E-04

Source: 6

Receptor	External	Deposition	Immersion	Inhalation	Radon	Ingestion
1	9.82E-06	3.03E-10	1.87E-11	2.13E-04	1.30E-17	5.14E-04
Total	9.82E-06	3.03E-10	1.87E-11	2.13E-04	1.30E-17	5.14E-04



Title : Large Warehouse - Occupancy

Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld

Evaluation Time: 30.000000 years

Nuclide Detail of Doses

[mrem]

Source: 1

Nuclide	Receptor	Total
	1	
AM-241	6.60E-04	6.60E-04
NP-237	9.31E-09	9.31E-09
U-233	6.06E-14	6.06E-14
TH-229	1.01E-15	1.01E-15
PU-240	6.48E-04	6.48E-04
U-236	7.86E-11	7.86E-11
TH-232	6.94E-19	6.94E-19
RA-228		
TH-228	3.68E-19	3.68E-19
PU-239	6.48E-04	6.48E-04
U-235	5.90E-12	5.90E-12
PA-231	1.90E-14	1.90E-14
AC-227	1.23E-14	1.23E-14
NP-237	9.66E-04	9.66E-04
U-233	1.25E-08	1.25E-08
TH-229	3.11E-10	3.11E-10
U-238	1.05E-04	1.05E-04
U-234	7.93E-09	7.93E-09
TH-230	2.43E-12	2.43E-12
RA-226	6.43E-14	6.43E-14
PB-210	7.56E-15	7.56E-15
U-235	1.97E-04	1.97E-04
PA-231	1.27E-06	1.27E-06
AC-227	1.14E-06	1.14E-06
U-234	9.19E-05	9.19E-05
TH-230	5.63E-08	5.63E-08
RA-226	2.23E-09	2.23E-09
PB-210	3.36E-10	3.36E-10
TC-99	2.52E-07	2.52E-07

Source: 2

Nuclide	Receptor	Total
	1	
AM-241	6.44E-04	6.44E-04
NP-237	8.32E-09	8.32E-09
U-233	6.02E-14	6.02E-14
TH-229	9.22E-16	9.22E-16

Title : Large Warehouse - Occupancy  
 Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld  
 Evaluation Time: 30.0000000 years

PU-240	6.47E-04	6.47E-04
U-236	7.80E-11	7.80E-11
TH-232	6.93E-19	6.93E-19
RA-228		
TH-228	1.72E-19	1.72E-19
PU-239	6.48E-04	6.48E-04
U-235	3.62E-12	3.62E-12
PA-231	1.88E-14	1.88E-14
AC-227	1.19E-14	1.19E-14
NP-237	8.63E-04	8.63E-04
U-233	1.24E-08	1.24E-08
TH-229	2.83E-10	2.83E-10
U-238	9.02E-05	9.02E-05
U-234	7.86E-09	7.86E-09
TH-230	2.42E-12	2.42E-12
RA-226	2.69E-14	2.69E-14
PB-210	7.54E-15	7.54E-15
U-235	1.21E-04	1.21E-04
PA-231	1.26E-06	1.26E-06
AC-227	1.11E-06	1.11E-06
U-234	9.11E-05	9.11E-05
TH-230	5.62E-08	5.62E-08
RA-226	9.32E-10	9.32E-10
PB-210	3.34E-10	3.34E-10
TC-99	2.18E-07	2.18E-07

Source: 3

Nuclide	Receptor	Total
1		
AM-241	2.60E-04	2.60E-04
NP-237	3.33E-09	3.33E-09
U-233	2.44E-14	2.44E-14
TH-229	3.69E-16	3.69E-16
PU-240	2.62E-04	2.62E-04
U-236	3.16E-11	3.16E-11
TH-232	2.81E-19	2.81E-19
RA-228		
TH-228	6.03E-20	6.03E-20
PU-239	2.63E-04	2.63E-04
U-235	1.36E-12	1.36E-12
PA-231	7.64E-15	7.64E-15
AC-227	4.80E-15	4.80E-15
NP-237	3.45E-04	3.45E-04
U-233	5.02E-09	5.02E-09
TH-229	1.13E-10	1.13E-10
U-238	3.59E-05	3.59E-05
U-234	3.19E-09	3.19E-09
TH-230	9.82E-13	9.82E-13
RA-226	9.09E-15	9.09E-15

Title : Large Warehouse - Occupancy

Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld

Evaluation Time: 30.000000 years

PB-210	3.06E-15	3.06E-15
U-235	4.54E-05	4.54E-05
PA-231	5.09E-07	5.09E-07
AC-227	4.46E-07	4.46E-07
U-234	3.69E-05	3.69E-05
TH-230	2.28E-08	2.28E-08
RA-226	3.16E-10	3.16E-10
PB-210	1.36E-10	1.36E-10
TC-99	8.66E-08	8.66E-08

Source: 4

Nuclide	Receptor	Total
	1	
AM-241	1.55E-04	1.55E-04
NP-237	1.94E-09	1.94E-09
U-233	1.45E-14	1.45E-14
TH-229	2.17E-16	2.17E-16
PU-240	1.56E-04	1.56E-04
U-236	1.88E-11	1.88E-11
TH-232	1.68E-19	1.68E-19
RA-228		
TH-228	2.84E-20	2.84E-20
PU-239	1.57E-04	1.57E-04
U-235	7.26E-13	7.26E-13
PA-231	4.54E-15	4.54E-15
AC-227	2.85E-15	2.85E-15
NP-237	2.02E-04	2.02E-04
U-233	2.99E-09	2.99E-09
TH-229	6.66E-11	6.66E-11
U-238	2.09E-05	2.09E-05
U-234	1.90E-09	1.90E-09
TH-230	5.85E-13	5.85E-13
RA-226	3.98E-15	3.98E-15
PB-210	1.82E-15	1.82E-15
U-235	2.42E-05	2.42E-05
PA-231	3.03E-07	3.03E-07
AC-227	2.64E-07	2.64E-07
U-234	2.20E-05	2.20E-05
TH-230	1.36E-08	1.36E-08
RA-226	1.38E-10	1.38E-10
PB-210	8.08E-11	8.08E-11
TC-99	5.03E-08	5.03E-08

Title : Large Warehouse - Occupancy  
 Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld  
 Evaluation Time: 30.0000000 years

Source: 5

Nuclide	Receptor	Total
	1	
AM-241	2.60E-04	2.60E-04
NP-237	3.33E-09	3.33E-09
U-233	2.44E-14	2.44E-14
TH-229	3.69E-16	3.69E-16
PU-240	2.62E-04	2.62E-04
U-236	3.16E-11	3.16E-11
TH-232	2.81E-19	2.81E-19
RA-228		
TH-228	6.03E-20	6.03E-20
PU-239	2.63E-04	2.63E-04
U-235	1.36E-12	1.36E-12
PA-231	7.64E-15	7.64E-15
AC-227	4.80E-15	4.80E-15
NP-237	3.45E-04	3.45E-04
U-233	5.02E-09	5.02E-09
TH-229	1.13E-10	1.13E-10
U-238	3.59E-05	3.59E-05
U-234	3.19E-09	3.19E-09
TH-230	9.82E-13	9.82E-13
RA-226	9.09E-15	9.09E-15
PB-210	3.06E-15	3.06E-15
U-235	4.54E-05	4.54E-05
PA-231	5.09E-07	5.09E-07
AC-227	4.46E-07	4.46E-07
U-234	3.69E-05	3.69E-05
TH-230	2.28E-08	2.28E-08
RA-226	3.16E-10	3.16E-10
PB-210	1.36E-10	1.36E-10
TC-99	8.66E-08	8.66E-08

Source: 6

Nuclide	Receptor	Total
	1	
AM-241	1.55E-04	1.55E-04
NP-237	1.94E-09	1.94E-09
U-233	1.45E-14	1.45E-14
TH-229	2.17E-16	2.17E-16
PU-240	1.56E-04	1.56E-04
U-236	1.88E-11	1.88E-11
TH-232	1.68E-19	1.68E-19
RA-228		
TH-228	2.84E-20	2.84E-20

Title : Large Warehouse - Occupancy

Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld

Evaluation Time: 30.000000 years

PU-239	1.57E-04	1.57E-04
U-235	7.26E-13	7.26E-13
PA-231	4.54E-15	4.54E-15
AC-227	2.85E-15	2.85E-15
NP-237	2.02E-04	2.02E-04
U-233	2.99E-09	2.99E-09
TH-229	6.66E-11	6.66E-11
U-238	2.09E-05	2.09E-05
U-234	1.90E-09	1.90E-09
TH-230	5.85E-13	5.85E-13
RA-226	3.98E-15	3.98E-15
PB-210	1.82E-15	1.82E-15
U-235	2.42E-05	2.42E-05
PA-231	3.03E-07	3.03E-07
AC-227	2.64E-07	2.64E-07
U-234	2.20E-05	2.20E-05
TH-230	1.36E-08	1.36E-08
RA-226	1.38E-10	1.38E-10
PB-210	8.08E-11	8.08E-11
TC-99	5.03E-08	5.03E-08

Title : Large Warehouse - Occupancy

Input File : C:\RESRAD\_Family\BUILD\HEMATITE - Large Warehouse.bld

Full Summary

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RESRAD-BUILD Dose (Time) Tables

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Receptor Dose Received for the Exposure Duration

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(mrem)

	Evaluation Time [yr]		
	0.00E+00	1.00E+00	3.00E+01
1	2.20E-02	2.16E-02	1.04E-02

Receptor Dose/Yr Averaged Over Exposure Duration

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(mrem/yr)

	Evaluation Time [yr]		
	0.00E+00	1.00E+00	3.00E+01
1	2.20E-02	2.16E-02	1.04E-02