

Attachment 3
Resrad Build Output Report
For Residual Contamination in Floor Above Reactor
Room R3

** RESRAD-BUILD Program Output, Version 3.0 02/28/01 10:12 Page: 0- 2 : 3 **
Title : WRAIR Building 40 Irradiated Concrete
Input File : C:\WINBLD\WRIC.INP

íííííííííí Building Information íííííííííí

Building Air Exchange Rate: 8.00E-01 1/hr

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

		* * *
		* * *
		* * *
H1: 2.500		* Room 1 <=Q01: 7.20E+01
		* Q10 : 7.20E+01
Area 36.000		* LAMBDA: 8.00E-01
		* * *

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

** RESRAD-BUILD Program Output, Version 3.0 02/28/01 10:12 Page: 0- 3 : 4 **
 Title : WRAIR Building 40 Irradiated Concrete
 Input File : C:\WINBLD\WRIC.INP

íííííííí Source Information íííííííí

Source: 1

Location:: Room : 1 x: 1.00 y: 1.00 z: 0.00[m]
 Geometry:: Type: Volume Area:1.00E+01 [m2] Direction: z
 Pathway ::
 Direct Ingestion Rate: 0.000E+00 [gm/hr]
 Fraction released to air: 1.000E-01

Containment :: Number of Regions: 1 Contaminated Region: 1
 Region : 1
 Thickness [cm] :4.06E+01
 Density [g/cm3] :2.40E+00
 Material :Concrete
 Erosion Rate [cm/day] :2.40E-08

Contamination::

Nuclide Concentration	Dose Conversion Factors					
	Ingestion	Inhalation	External (Surface)	External (Volume)	Submersion	
[pCi/g]	[mrem/pCi]	[mrem/pCi]	[mrem/yr/ (pCi/m2)]	[mrem/yr/ (pCi/m3)]	[mrem/yr/ (pCi/m3)]	
GD-152	0.000E+00	1.610E-04	2.430E-01	0.000E+00	0.000E+00	0.000E+00
EU-154	8.100E-01	9.550E-06	2.860E-04	1.390E-04	4.810E-06	7.180E-03
EU-152	1.200E+01	6.480E-06	2.210E-04	1.290E-04	4.390E-06	6.610E-03
CO-60	1.200E+00	2.690E-05	2.190E-04	2.750E-04	1.020E-05	1.470E-02

** RESRAD-BUILD Program Output, Version 3.0 02/28/01 10:12 Page: 1- 1 : 5 **
 Title : WRAIR Building 40 Irradiated Concrete
 Input File : C:\WINBLD\WRIC.INP Evaluation Time: 0.000000 years

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

Source: 1
 Location:: Room : 1 x: 1.00 y: 1.00 z: 0.00 [m]
 Geometry:: Type: Volume Area:1.00E+01 [m2] Direction: z
 Pathway ::
 Direct Ingestion Rate :0.000E+00 [gm/hr]
 Fraction released to air: 1.000E-01

Containment :: Number of Regions: 1 Contaminated Region: 1
 Region : 1
 Thickness [cm] :4.06E+01
 Fraction Contaminated :1.00E+00
 Density [g/cm3] :2.40E+00

Contamination::	Nuclide	Concentration [pCi/g]
	GD-152	3.782E-14
	EU-154	7.789E-01
	EU-152	1.169E+01
	CO-60	1.124E+00

