MicroShield 7.02 Dominion (07-MSD-7.02-1318)

Date	By	Checked	

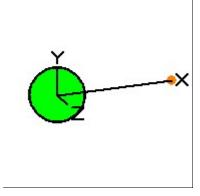
Filename	Run Date	Run Time	Duration	
sphereWithShell.ms7	July 17, 2025	10:14:09 AM	00:00:00	

Project Info		
Case Title	Case 10	
Description	air sphere shielded by concrete	
Geometry	6 - Sphere	

Source Dimensions		
Radius	2.1e+3 cm (70 ft)	

	Dose Points				
A	X	Y	Z		
#1	9.2e+3 cm (302 ft 7.0 in)	0.0 cm (0.0 in)	0.0 cm (0.0 in)		

Shields				
Shield N	Dimension	Material	Density	
Source	4.07e+10 cm ³	Air	0.00122	
Shield 1	76.2 cm	Concrete	2.3	
Transition	6949.44 cm	Air	0.00122	
Air Gap		Air	0.00122	



Source Input: Grouping Method - User Defined Energies				
Group #	Energy (MeV) Activity (Photons/sec)		Volume Source Photons/sec/cm ³	% Energy Activity
1	1.0	1.0000e+017	2.4579e+006	100.000%

Buildup: The material reference is Shield 1 Integration Parameters		
Rho (Radial)	10	
Angle	10	

Results						
	Energy (MeV)	Activity (Photons/sec)	MeV/cm ² /sec			Exposure Rate mR/hr With Buildup
	1.0	1.000e+17	1.374e+02	3.977e+03	2.534e-01	7.331e+00
	Totals	1.000e+17	1.374e+02	3.977e+03	2.534e-01	7.331e+00