<table>
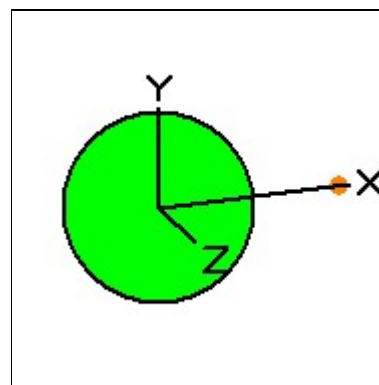<tr><td colspan="4" align="center">MicroShield 7.02
Dominion (07-MSD-7.02-1318)</td></tr>
</table>

Date	By	Checked

Filename	Run Date	Run Time	Duration
sphere-case1.ms7	July 4, 2023	8:10:18 AM	00:00:00

Project Info

Case Title	Case 1
Description	Pseudo-void sphere benchmark case
Geometry	6 - Sphere

Source Dimensions

Radius	10.0 cm (3.9 in)

Dose Points

A	X	Y	Z
#1	20.0 cm (7.9 in)	0.0 cm (0.0 in)	0.0 cm (0.0 in)

Shields

Shield N	Dimension	Material	Density
Source	4188.79 cm³	Air	1.00e-10
Transition		Air	1.00e-10
Air Gap		Air	1.00e-10

Source Input: Grouping Method - User Defined Energies

Group #	Energy (MeV)	Activity (Photons/sec)	Volume Source Photons/sec/cm³	% Energy Activity
1	1.0	1.0000e+000	2.3873e-004	100.000%

Buildup: The material reference is Transition
Integration Parameters

Rho (Radial)	10
Angle	10

Results

Energy (MeV)	Activity (Photons/sec)	Fluence Rate MeV/cm²/sec No Buildup	Fluence Rate MeV/cm²/sec With Buildup	Exposure Rate mR/hr No Buildup	Exposure Rate mR/hr With Buildup
1.0	1.000e+00	2.102e-04	2.102e-04	3.875e-07	3.875e-07
Totals	**1.000e+00**	**2.102e-04**	**2.102e-04**	**3.875e-07**	**3.875e-07**