

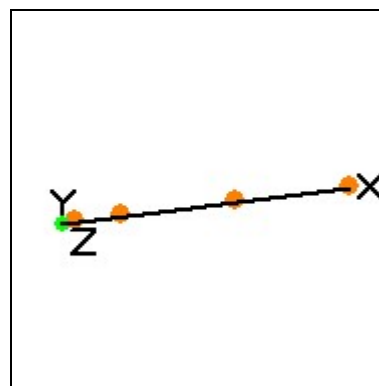
MicroShield 7.02
Dominion Energy (07-MSD-7.02-1318)

Date	By	Checked

Filename	Run Date	Run Time	Duration
ANS_I_1.ms7	November 2, 2022	12:36:44 PM	00:00:00

Project Info	
Case Title	Case 1
Description	ANSI/ANS 6.6.1 Reference Problem I.1
Geometry	1 - Point

Dose Points			
A	X	Y	Z
#1	6.1e+3 cm (200 ft)	1.7e+3 cm (57 ft)	0.0 cm (0.0 in)
#2	3.0e+4 cm (1000 ft)	1.7e+3 cm (57 ft)	0.0 cm (0.0 in)
#3	9.1e+4 cm (3000 ft)	1.7e+3 cm (57 ft)	0.0 cm (0.0 in)
#4	1.5e+5 cm (5000 ft)	1.7e+3 cm (57 ft)	0.0 cm (0.0 in)



Shields			
Shield N	Dimension	Material	Density
Air Gap		Air	0.00122

Source Input: Grouping Method - User Defined Energies				
Group #	Energy (MeV)	Activity (Photons/sec)	Point Source Photons/sec	% Energy Activity
1	6.2	1.0000e+000	1.0000e+000	100.000%

Buildup: The material reference is Air Gap Integration Parameters	
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Results - Dose Point # 1 - (6096,1737.36,0) cm					
Energy (MeV)	Activity (Photons/sec)	Fluence Rate MeV/cm ² /sec No Buildup	Fluence Rate MeV/cm ² /sec With Buildup	Exposure Rate mR/hr No Buildup	Exposure Rate mR/hr With Buildup
6.2	1.000e+00	1.014e-08	1.110e-08	1.091e-11	1.194e-11
Totals	1.000e+00	1.014e-08	1.110e-08	1.091e-11	1.194e-11

Results - Dose Point # 2 - (30480,1737.36,0) cm					
Energy (MeV)	Activity (Photons/sec)	Fluence Rate MeV/cm ² /sec No Buildup	Fluence Rate MeV/cm ² /sec With Buildup	Exposure Rate mR/hr No Buildup	Exposure Rate mR/hr With Buildup
6.2	1.000e+00	2.103e-10	3.097e-10	2.263e-13	3.332e-13
Totals	1.000e+00	2.103e-10	3.097e-10	2.263e-13	3.332e-13

Results - Dose Point # 3 - (91440,1737.36,0) cm					
Energy (MeV)	Activity (Photons/sec)	Fluence Rate MeV/cm ² /sec No Buildup	Fluence Rate MeV/cm ² /sec With Buildup	Exposure Rate mR/hr No Buildup	Exposure Rate mR/hr With Buildup

6.2	1.000e+00	3.714e-12	8.454e-12	3.996e-15	9.096e-15
Totals	1.000e+00	3.714e-12	8.454e-12	3.996e-15	9.096e-15

Results - Dose Point # 4 - (152400,1737.36,0) cm					
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
6.2	1.000e+00	2.117e-13	6.484e-13	2.278e-16	6.977e-16
Totals	1.000e+00	2.117e-13	6.484e-13	2.278e-16	6.977e-16