

BEGIN CONTROL DATA

SAMPLE LIMIT 50000000

END

BEGIN MATERIAL SPECIFICATION

TYPE GAMMA

NORMALISE

ATOMS

MATERIAL 1 DENSITY 4.51 CS 1.0 I 1.0

MATERIAL 2 DENSITY 0.0012 N 0.78 O 0.2 AR 0.0046

END

BEGIN MATERIAL GEOMETRY

PART 1 CLUSTER

BOX M1 0.0 0.0 0.0 1.3 1.3 2 !Detector

!BOX M1 5 5 5 5 2 ! Shielding

SPHERE M2 0 0 0 80 !World

END

BEGIN ENERGY DATA

GAMMA !GAMMA-RAYS

!SCORING GROUPS 596

!FILL 2.000 I 595*0.00250 P 0.0300 !TALLY RESULTS 0.03 TO 2 MEV, 1 KEV BINS

UNIFIED SOURCE

END

BEGIN UNIFIED SOURCE DATA

GEOMETRY

Point 12.3 0.5 0.5 ! Source

ENERGY Lines 0.662 ! The 2 main emission lines

SPECTRA 0.85 !Two main emission lines

INTENSITY BODY 1

COMPONENT 1

END

BEGIN SCORING DATA

MATERIAL MESH

TRACK LENGTH FLUX

PART 1 SOME 1

RESPONSES DITTO

END

BEGIN ENERGY DEPOSITION

GROUPS 198

FILL 2.000 I 198*0.01 !TALLY RESULTS 30keV to 2 MeV in 10 keV bins

DETAILED PHD

SOME 1

END

BEGIN RESPONSE DATA

GAMMA FUNCTION GAMMA DOSE ICRP74

END