Instructions on the Display of the Computer Anatomical Female

The description of this input file can be found in: NASA CR-134043 http://ntrs.nasa.gov/archive/nasa/casi.ntrs.nasa.gov/19730023290_1973023290.pdf

Modify the CAM file as follows:

- 1. Remove the message statement at the top.
- 2. Remove the void statement.
- 3. Remove the vol statement
- 4. Remove the tally statement
- 5. Include the surfaces, cells and materials in the input file (do not use the read statements).

To make the 3D ray trace with a cookie cutter:

Increase the dimensions of the enclosing surfaces:

1112	s 0 0 89 549
1113	s 0 0 89 550

Add cookie cutter surfaces:

2000	px 0.001
2001	py -3.001
2002	pz -20
2003	pz 200
2004	cz 100

Add cookie cutter cell:

10000 0 2000 -2004 2001 -2003 2002

In the left plot window set the following:

Plot origin: 0 0 80 Plot extents: 95 95 Plot Basis: -.7071 .7071 0 -.7071 -.7071 0

In the 3D Ray Tracing window set the following:

Cell numbers to plot: 1-576 697-873 884-889 899-1094 1110-1361 1387-1412 1425-1451 1464-1657 1697-1726 1751-1838 1847-1904 1921-1976 1985-2040 2066-2224 2250-2422 2432-2446

Set the viewpoint to: 200 200 10

Select "Show cookie cutters" (bottom middle option)

Set Resolution to 1000

Select Normal 3D Plot:

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To create the Radiographic 3D plot:

Select "Darkness indicates (ray length)*(cross section).

Set "Energy of the Source to" :

.06 (Incident energy of the X-ray is 0.06 Mev) You can change this to get different plots for different incident energies.

Set "Ray length corresponding to pure black" to:

35

This value is calculated after each plot, update this to the value provided by MCNP.

Select Radiographic 3D Plot:



Set the Cell Transparency to:

0.065

Adjust this number so the maximum non-transparency is about 1.0

Set the Average Cell to:

1.62

This value is calculated after each plot, update this to the value provided by MCNP.

Select Transparent 3D Plot:

