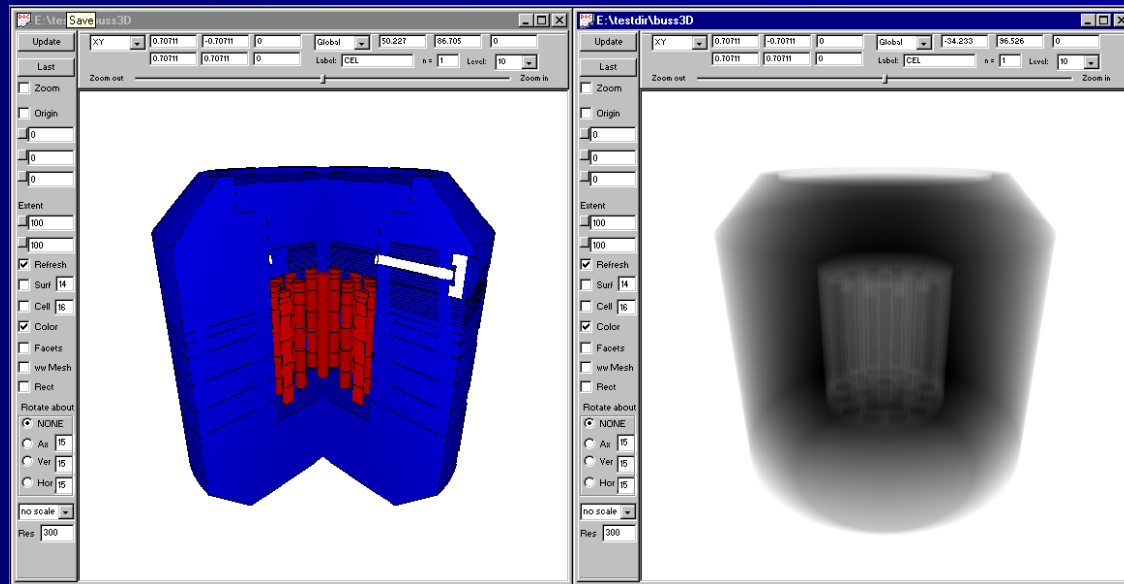


3-D PLOTTING CAPABILITIES IN THE VISUAL EDITOR FOR RELEASE 5 OF MCNP

A. L. Schwarz and R. A. Schwarz
Visual Editor Consultants

L. L. Carter
Carter M. C. Analysis



Complete Interface for MCNP

MCNP Visual Editor Version 10L - Vised24

File Input Update Plots Surface Cell Data Run Particle Display Tally Plots 3D View Read_again Backup View Help

D:\vised10l\buss13a

Update YZ 0 1 0 Global 0

Last 0 0 1 Label: CEL

Zoom

Origin

0 0 0

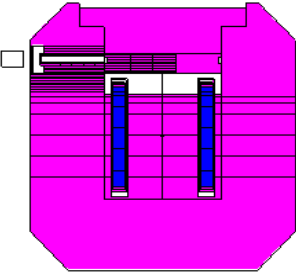
Extent 100 100

Surf 14

Cell 16

Color

Facets



D:\vised10l\buss13a

Update XZ 1 0 0 Global F2

Last 0 0 1 Label: CEL

Zoom

Origin

0 0 0

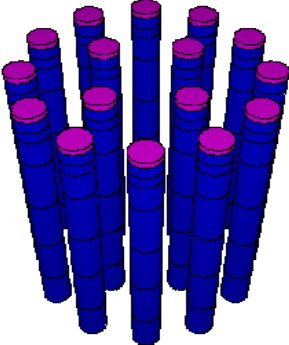
Extent 40 40

Surf 14

Cell 12

B & W

Facets



Vised23

Update YZ 0 1 0 Global 0

Last 0 0 1 Label: CEL

Zoom

Origin

0 0 0

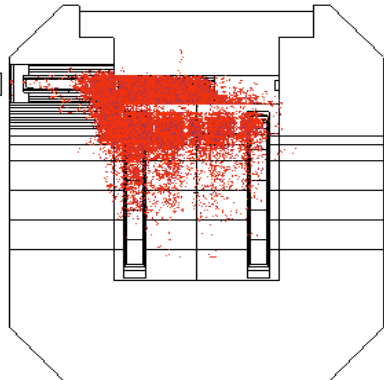
Extent 70.793 70.793

Surf 14

Cell 16

B & W

Facets



Vised24

Update XZ 1 0 0 Global F2

Last 0 0 1 Label: CEL

Zoom

Origin

0 0 0

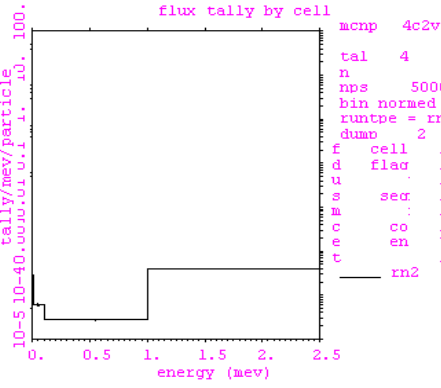
Extent 100 100

Surf 14

Cell 16

B & W

Facets



flux tally by cell

mcnp 4c2v

tal 4

n 5000

bin normed

runrpe = rn

dumpp = 2

cell flag

ser

co

en

rn2

Execute MCNP

Close Load Save Run

STOP NPS = 9000 CTME

Options = Inp= buss13a out=

srctp= wssa=

inp= out= runrpe= mctal=

starting mcnp execution

warning. universe map (print table 128) disabled.

warning. 1- or 2-character identifiers request neutron tables.

warning. 1- or 2-character identifiers request neutron tables.

warning. 1- or 2-character identifiers request neutron tables.

warning. 1- or 2-character identifiers request neutron tables.

warning. 1- or 2-character identifiers request neutron tables.

warning. 1- or 2-character identifiers request neutron tables.

warning. 1- or 2-character identifiers request neutron tables.

warning. 1- or 2-character identifiers request neutron tables.

warning. 1- or 2-character identifiers request neutron tables.

warning. 1- or 2-character identifiers request neutron tables.

warning. 1 surfaces were deleted for being the same as others.

warning. 1 materials had unnormalized fractions. print table 40.

Input File

Save -- Update Edit Print Close Save

File Name inpn

warning. plot plane coincident with surface 40

warning. plot plane coincident with surface 40

warning. plot plane coincident with surface 40

warning. plot plane coincident with surface 40

warning. plot plane coincident with surface 40

warning. plot plane coincident with surface 40

mcplot is done

BUSS CASK -- SHIELD PLUG AND THERMAL SHIELD IN PLACE

c comment 1 before cell 1

c comment 2 before cell 1

c comment 3 before cell 1

c comment 3 before cell 1

1 2 -7.8 (59 -1 -7):(-13 7 -8) \$CASK TOP

c comment 1 before cell 2

c comment 2 before cell 2

c comment 3 before cell 2

c comment 3 before cell 2

2 2 -7.8 (((-15 4 -2 -11):(1 -11 2 -7 -14)):(13 -14 7 -10)):(-1 :17 :-18 :20)):(17 :18 :11):(108 -6):20 :(17 6))

c comment 1 before cell 3

c comment 2 before cell 3

c comment 3 before cell 3

c comment 3 before cell 3

3 0 5 12 -1 -6

4 0 (-16 1 200 -20):(-204 -200 202)

Ready

The Visual Editor

Input File Creation Capabilities

- Display Geometries with 2D Views.
- Create Geometries
 - Universes
 - Fills
 - Lattices
- Some support for data cards.
 - Materials
 - Transformations
 - Importances

The Visual Editor

Output Visualization Features

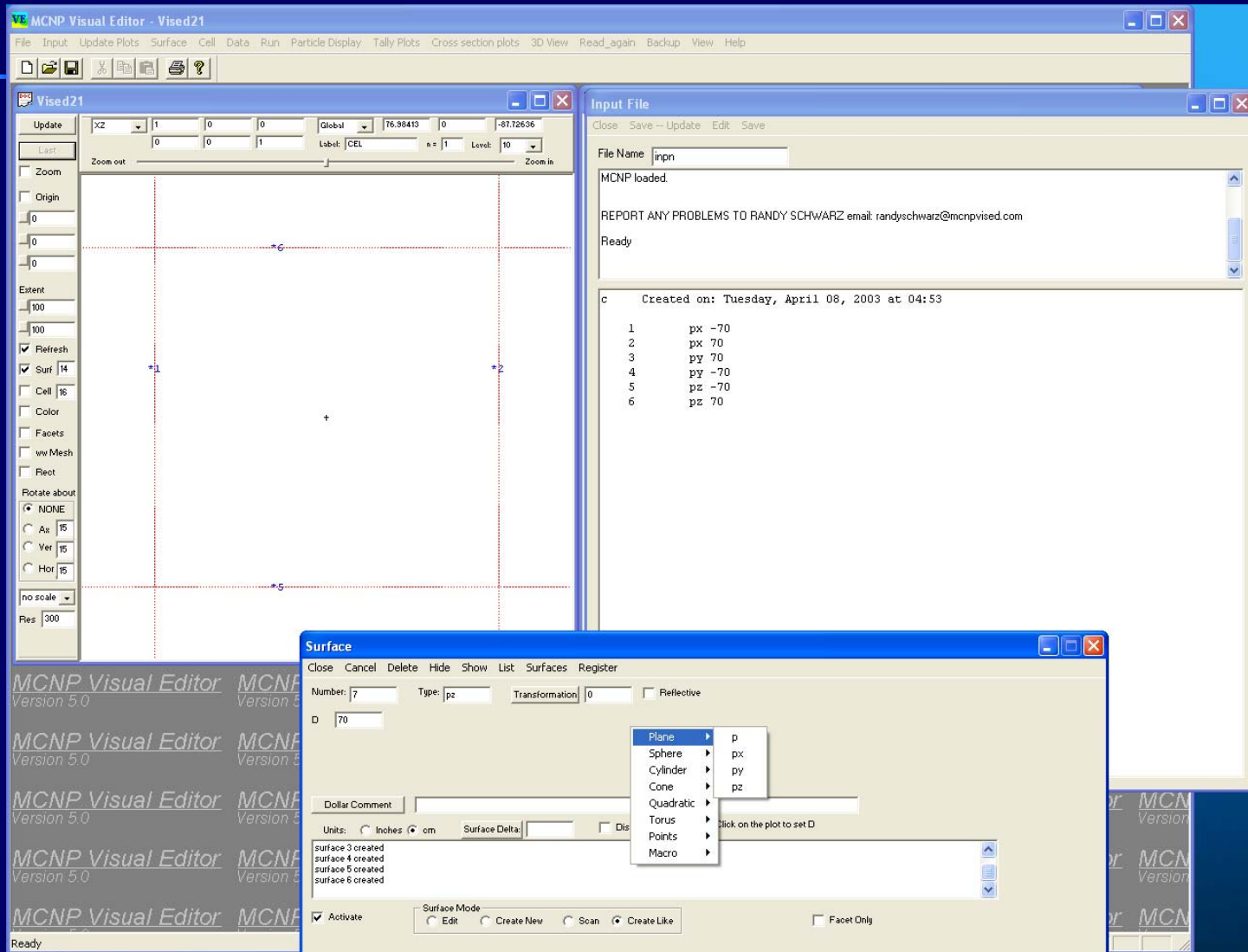
- Plot Particle Tracks
 - SDEF Source generation points
 - Collision Points
 - KCODE generation points
- 3D Plots.
- Tally Plots.

How the Visual Editor works

- Visual C++ code is linked to the MCNP Fortran code.
- The Visual Editor Fortran modifications are now a part of the LANL Version 5 Fortran code.
- The C++ and Fortran share data and memory.

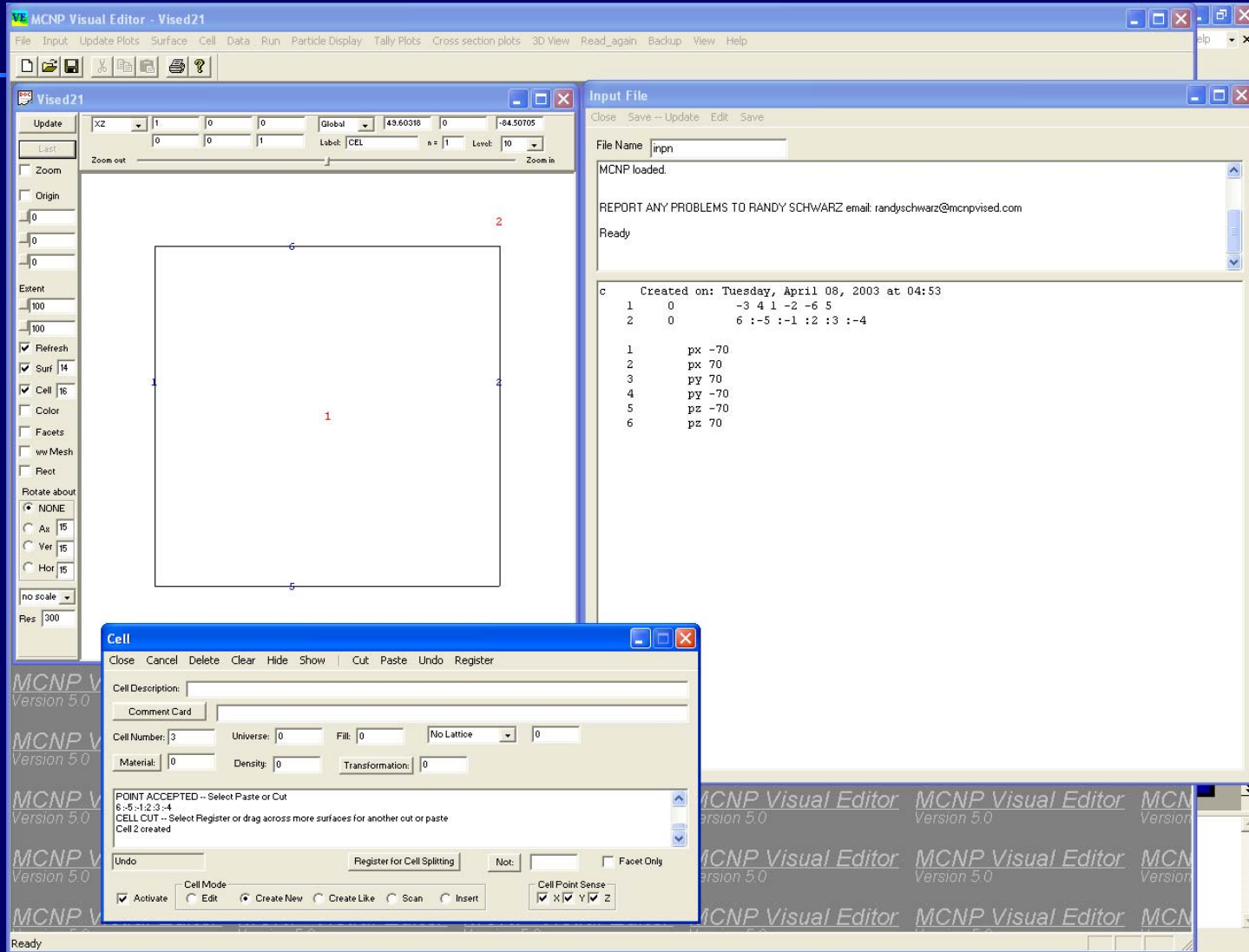
Advanced Features

Create, modify, or display surface information from the plot



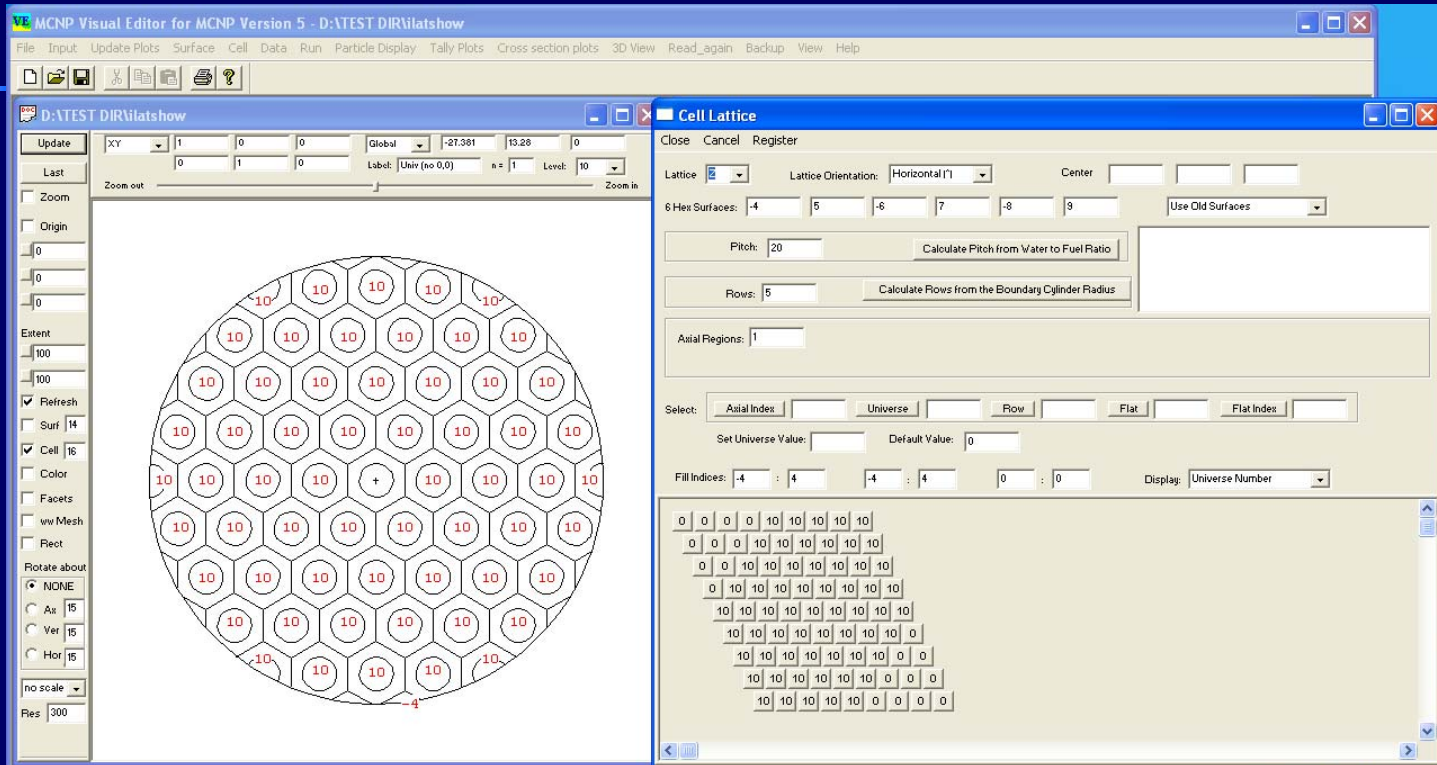
Advanced Features

Create, modify, or display cell information from the plot



Advanced Features

Can create a lattice from the pitch and number of rows.



MCNP Visual Editor Version 5.0

MCNP Visual Editor Version 5.0

MCNP Visual Editor Version 5.0

MCNP Visual Editor Version 5.0

MCNP Visual Editor Version 5.0

Cell

Cell Description: -4 5 -6 7 -8 9

Cell Number: 3 Universe: 1 Fill: 0 Hex Lattice 2

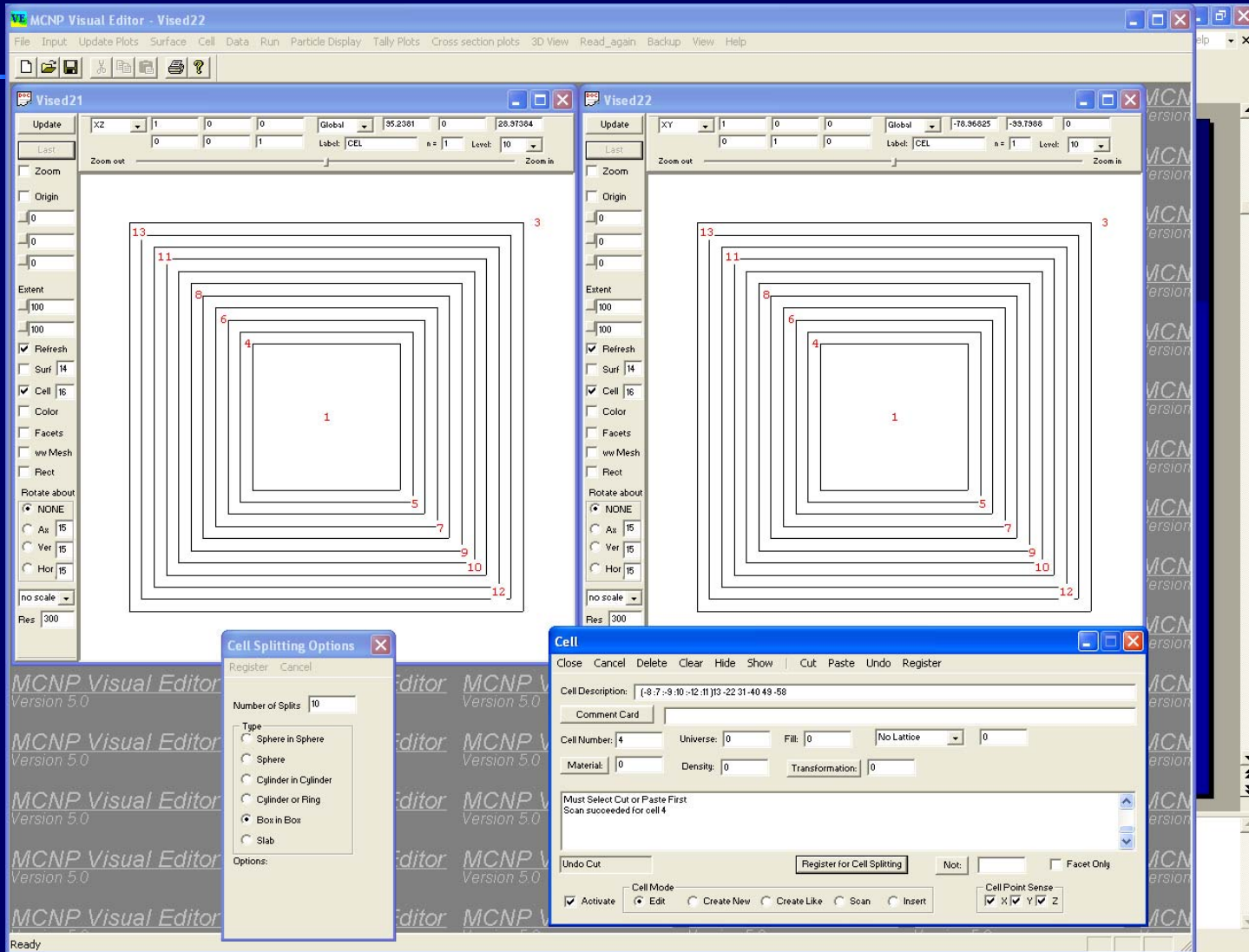
ERROR: Cell Doesn't Exist

Cell Mode: Activate Edit Create New Create Like Scan Insert

Ready

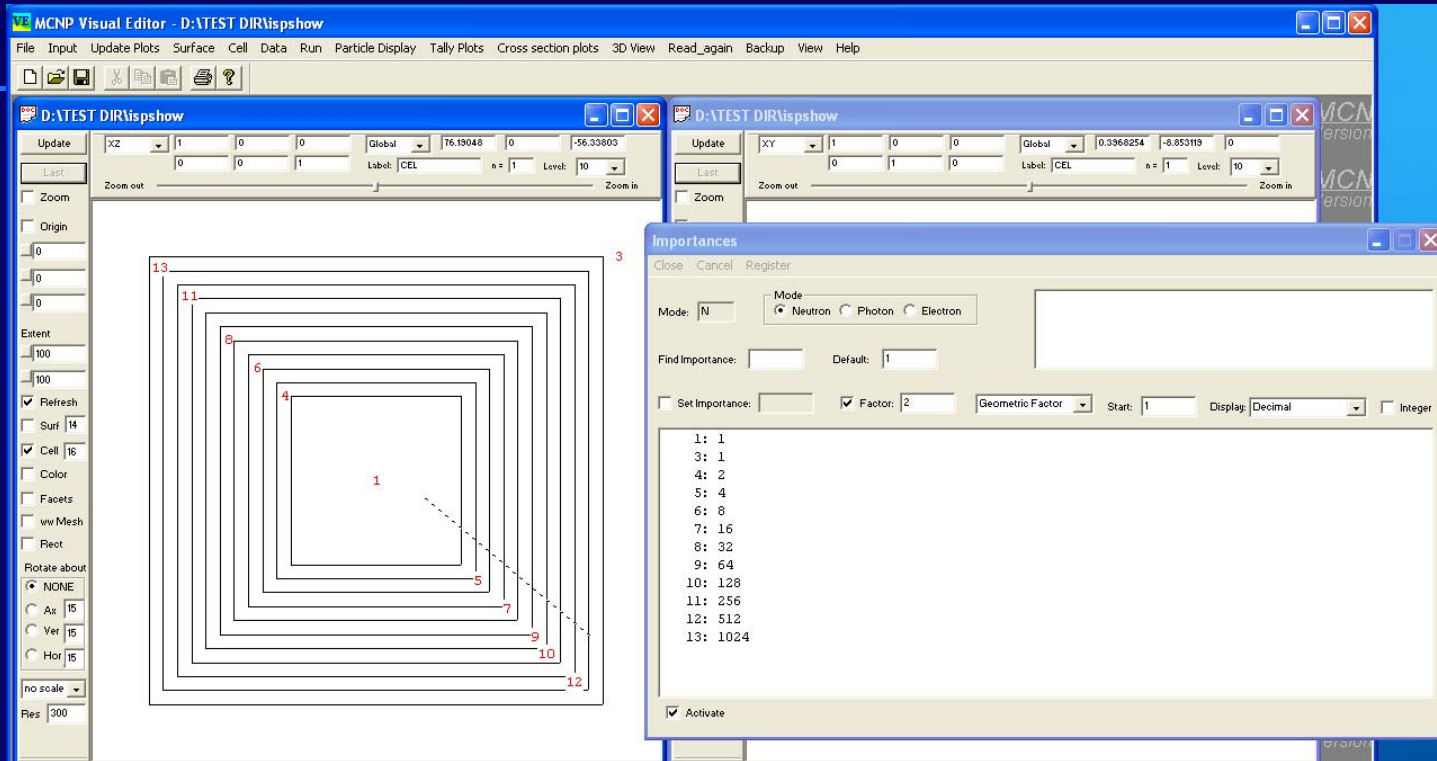
Advanced Features

Split a cell into a number of smaller sections for particle biasing.



Advanced Features

Set importances from the plot screen.



New Features in Version 5 Release

Can make Tally Plots (MCNPLOT capability)

The screenshot displays the MCNP Visual Editor interface. The main window shows a plot titled "top" with the y-axis labeled "tally/particle" (ranging from 10⁺⁴ to 10⁺⁵) and the x-axis labeled "segment bin number" (ranging from 0 to 20). The plot shows a line graph with error bars, starting at approximately 10^{+4.5} for bin 1, dropping to about 10^{+4.3} for bin 2, and then fluctuating between 10^{+4.4} and 10^{+4.5} for the remaining bins.

Below the plot, the "Tally Plotting" dialog box is open, showing the following settings:

- File Information: Run/ptc, Metal, Filename: rsphe, Dump No. [empty], Defaults to last dump if no entry
- Write metal file [empty]
- 2D: 2D Plot, Tally number to Plot: 2, Perturbation Number [empty], Print IPTAL array
- Independent: Segment, Dependent: Default, Bin No: [empty]
- Tally Fluctuation: Mean
- KCODE Plot: k (collision)
- Contour: Contour, First Independent: Default, Second Independent: Default, Min: 5, Max: 95, Steps: 10
- Absolute, Percentage of min and max

The background of the slide features a repeating watermark of "MCNP Visual Editor Version 5.0".

New Features in Version 5 Release

Can run MCNP (both interactively and in batch).

The screenshot displays the MCNP Visual Editor interface. The main window shows a 3D visualization of a yellow cylinder with a blue circular cross-section, centered within a red square frame. The interface includes a menu bar (File, Input, Update Plots, Surface, Cell, Data, Run, Particle Display, Tally Plots, Cross section plots, 3D View, Read_again, Backup, View, Help) and a toolbar with various icons. A control panel on the left allows for zooming and rotating the view. An 'Input File' dialog box is open at the bottom left, showing the file name 'inp.n' and a list of cylinder sources in a box. A 'Execute MCNP' dialog box is open on the right, displaying execution parameters such as NPS = 4788922 and CTME = 599.4019, along with a list of warning messages from the MCNP simulation.

MCNP Visual Editor - D:\ATEST DIR\isphE

File Input Update Plots Surface Cell Data Run Particle Display Tally Plots Cross section plots 3D View Read_again Backup View Help

D:\ATEST DIR\isphE

Update [XZ] 1 0 0 Global 78.57143 0 15.29175
Last: 0 0 1 Label: CEL a = 1 Level: 10
Zoom out

Zoom
Origin
Extent
Refresh
Surf 14
Cell 16
Color
Facets
vw Mesh
Rect
Rotate about
NONE
Az 15
Ver 15
Hor 15
no scale
Res 300

Execute MCNP

Close Run

STOP NPS = 4788922 CTME = 599.4019

Options = Inp= isphe out= osphe runtp= rsphe mctal= msphe name=
srcfp= wssa= rwwsa= Overwrite outp, mctal, runtp files

imcn is done
comment. 6000.01p lacks Compton profile data for photon energy broadening.
comment. 7000.01p lacks Compton profile data for photon energy broadening.
comment. 8000.01p lacks Compton profile data for photon energy broadening.
comment. 11000.01p lacks Compton profile data for photon energy broadening.
comment. 12000.01p lacks Compton profile data for photon energy broadening.
comment. 13000.01p lacks Compton profile data for photon energy broadening.
comment. 14000.01p lacks Compton profile data for photon energy broadening.
comment. 15000.01p lacks Compton profile data for photon energy broadening.
comment. 19000.01p lacks Compton profile data for photon energy broadening.
comment. 20000.01p lacks Compton profile data for photon energy broadening.
comment. 22000.01p lacks Compton profile data for photon energy broadening.
comment. 24000.01p lacks Compton profile data for photon energy broadening.
comment. 25000.01p lacks Compton profile data for photon energy broadening.
comment. 26000.01p lacks Compton profile data for photon energy broadening.
comment. 28000.01p lacks Compton profile data for photon energy broadening.
comment. 42000.01p lacks Compton profile data for photon energy broadening.
warning. material 202 has been set to a conductor.
xact is done
warning. tally 2 tlc bin did not pass 1 of 10 statistical checks.
warning. tally 12 tlc bin did not pass 1 of 10 statistical checks.
warning. tally 22 tlc bin did not pass 3 of 10 statistical checks.
warning. tally 32 tlc bin did not pass 1 of 10 statistical checks.
warning. tally 42 tlc bin did not pass 1 of 10 statistical checks.
warning. tally 62 tlc bin did not pass 2 of 10 statistical checks.
warning. tally 82 tlc bin did not pass 1 of 10 statistical checks.
warning. tally 102 tlc bin did not pass 1 of 10 statistical checks.
warning. tally 112 tlc bin did not pass 2 of 10 statistical checks.
warning. tally 122 tlc bin did not pass 1 of 10 statistical checks.
warning. tally 132 tlc bin did not pass 2 of 10 statistical checks.
warning. tally 142 tlc bin did not pass 1 of 10 statistical checks.
warning. tally 152 tlc bin did not pass 1 of 10 statistical checks.
warning. 13 of 16 tallies did not pass all 10 statistical checks.
warning. 16 of 16 tallies had bins with large relative errors.
mcrun is done
=====

Input File

Close Save -- Update Edit Save

File Name inp.n

REPORT ANY PROBLEMS TO RANDY SCHWARZ email: randyschwarz@mcnpvised.com

Ready

creating file inp.sav
creating file inp.sav

Cylinder sources in a box
c Created on: Wednesday, January 08, 2003 at 11:22

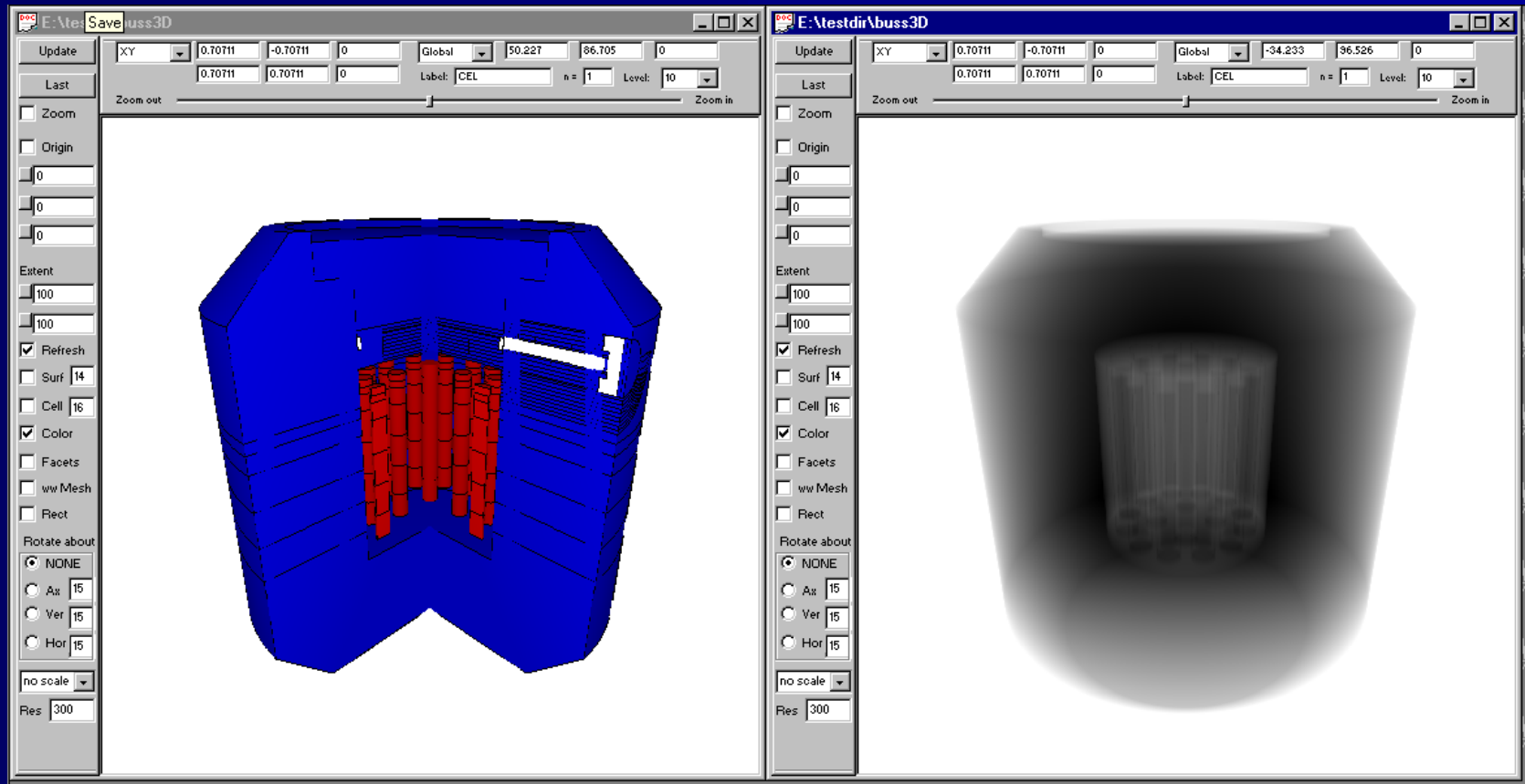
```
1 231 -0.00122 -2 1 -6 5 3 -4 10
2 221 -1.67 -11 1 -10 $ source
6 202 -8 (-16 13 14 -15 17 -12 )(-5 :4 :6 :-3 :-1 :2 )
7 0 12 :-17 :-13 :16 :15 :-14
```

Read

```
1 pz -80
2 pz 80
```

New Features in Version 5 Release

Can create 3-D plots – Visualization and Radiographic



3D Plot Background

- MCNP was made for ray tracing.
- Lee created a patch to generate a source.
- Took Lee about 2 weeks to implement.

How 3D Plots Work

- Sends particle tracks through the geometry.
- Hits the specified cell
- Hits the outside world
- Hits the plot plane (if requested)

3-D Plots in the Version 5 Release

The screenshot displays the MCNP Visual Editor interface. The main window shows a 3D model of a bolt head, rendered in cyan. To the right, a 3D plot of a complex structure is shown, with various cells labeled with numbers (e.g., 17, 19, 20, 21, 22, 23, 24, 25, 27, 39, 40, 46, 50, 51). A dialog box titled "3D Plotting" is open, showing options for NPS (90000), CTME (4.5), and X, Y, Z coordinates. The dialog also includes a section for "3D data used to make the plot" with fields for Horizontal, Vertical, and Origin-Source Vector. The bottom of the screen shows the Windows taskbar with various open applications and the system clock at 10:20 PM.

MCNP Visual Editor Version 10L - D:\TEST DIR\ipig

File Input Update Plots Surface Cell Data Run Particle Display Tally Plots 3D View Read_again Backup View Help

Update: XZ 1 0 0 Global -23.63 0 16.095

Last: 0 0 1 Label: CEL Level: 10

Zoom

Origin

Entent

Surf 14

Cell 16

Color

Facets

3D Plotting

Close Plot

NPS - 90000 CTME 4.5

X Y 90 Z 90

Enter cell numbers to show in 3d in text box

19 17 23 24 25 21

3D data used to make the plot:

Horizontal	1	0	0
Vertical	0	-0.6247	0.78087
Origin-Source Vector:	0	0.78087	0.6247

Color by Cell Draw lines around cells Color cells by material

Use 3D shading Use distance shading Point source

Hide plot plane image Hide cookie cutters Plot to outside world

Resolution: 300

sact is done
warning: importance function may be poor. see print table 120.
warning: 2 of 2 tallies did not pass all 10 statistical checks.
warning: 1 of 2 tallies had bins with large relative errors.
monu is done

Page 450 Sec 27 454/457

Ready

10:20 PM

Restrictions on 3D Plotting

- Must have a complete input file.
- Viewpoint can not be in a zero importance cell.
- Extents and Origin taken from the 2D Plot
- Color set by the color of the cell (material) or surface.

Macrobodies available in 3D.

The image shows a screenshot of the MCNP Visual Editor software interface. The main window displays a 3D model of a red cup. The interface includes a menu bar (File, Input, Update Plots, Surface, Cell, Data, Run, Particle Display, Tally Plots, Cross section plots, 3D View, Read_again, Backup, View, Help) and a toolbar with various icons. The main window is divided into two panes, both titled 'D:\TEST DIR\macro'. The left pane shows a 3D view of a red cup, with a toolbar on the left containing options like Update, Zoom, Origin, Extent, Refresh, Surf, Cell, Color, Facets, ww Mesh, Rect, Rotate about, and Res. The right pane shows a similar 3D view, but with a '3D Plotting' dialog box open over it. The dialog box has tabs for 'Close', 'Normal 3D Plot', and 'Radiographic 3D'. It contains fields for NPS (90000), CTIME (secs) (0.8412096), and Viewpoint (X: 10, Y: 100, Z: 75). There are also sections for '3D data used to make the plot' (Update Plot Basis, Origin-Source Vector) and 'Radiography Options' (Darkness indicates ray length, Ray length corresponding to pure black (cm)). Below the dialog box, there is an 'Input File' section with a 'File Name' field containing 'inp'. At the bottom of the window, there is a status bar with the text 'Ready' and a pre-processor output window showing the following text:

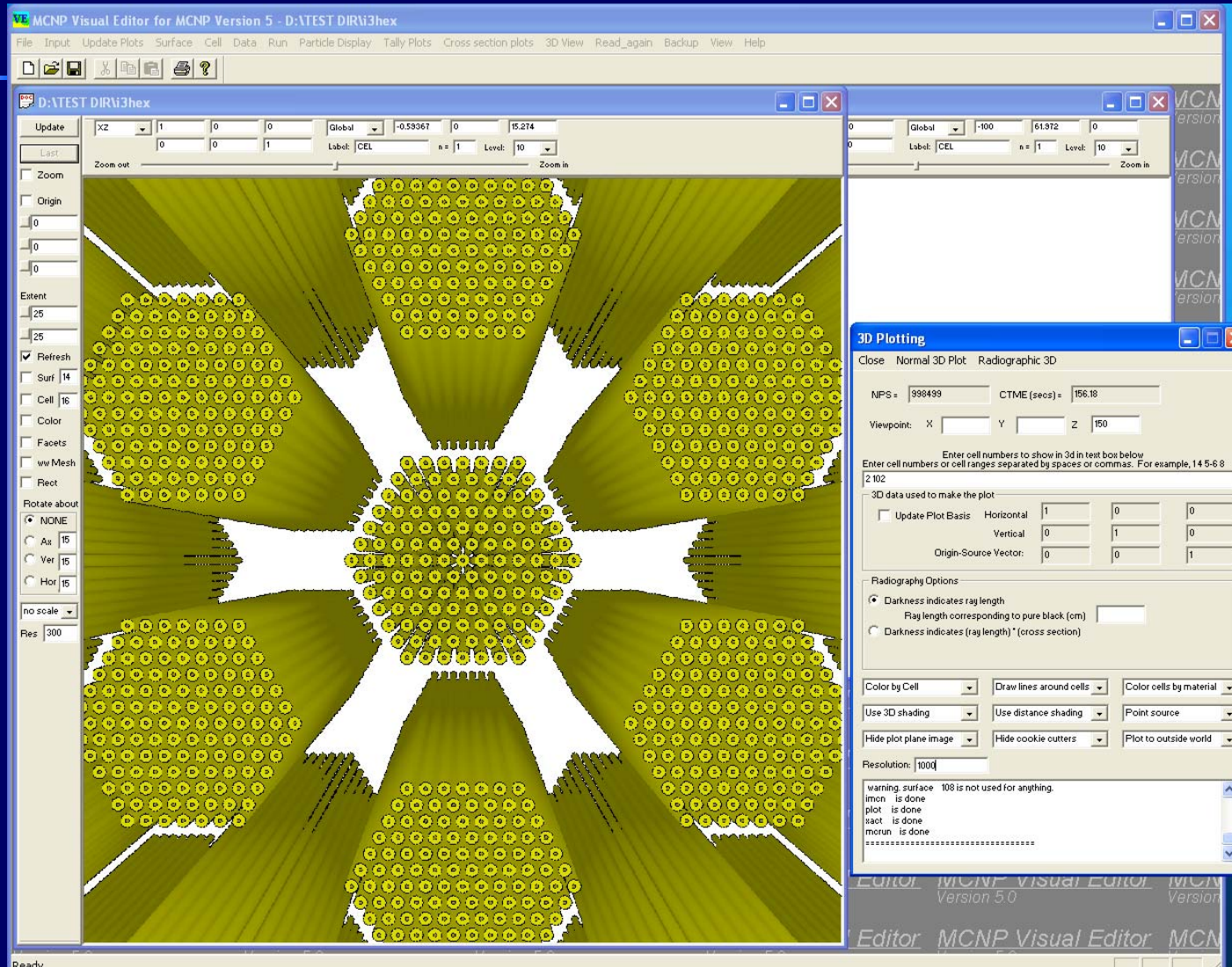
```

Created on: Saturday, April 05, 2003 at 21:24
c
1 1 -10 -1
2 0 1 -2
3 0 2

1 rcc 0 0 0 0 50 30
2 so 500

mode n
ml 92235.60c -0.044 $Fuel 5% enriched
92238.60c -0.836 8016.60c -0.12
imp:n 1 lr 0 $ 1, 3
    
```

3D Plots of Lattice Geometries



3D Plot Panel

3D Plotting [Close] [Normal 3D Plot] [Radiographic 3D]

NPS = CTME (secs) =

Viewpoint: X Y Z

Enter cell numbers to show in 3d in text box below
Enter cell numbers or cell ranges separated by spaces or commas. For example, 14 5-6 8

3D data used to make the plot

<input type="checkbox"/> Update Plot Basis	Horizontal	<input type="text"/>	<input type="text"/>	<input type="text"/>
	Vertical	<input type="text"/>	<input type="text"/>	<input type="text"/>
Origin-Source Vector:		<input type="text"/>	<input type="text"/>	<input type="text"/>

Radiography Options

Darkness indicates ray length
Ray length corresponding to pure black (cm)

Darkness indicates (ray length) * (cross section)

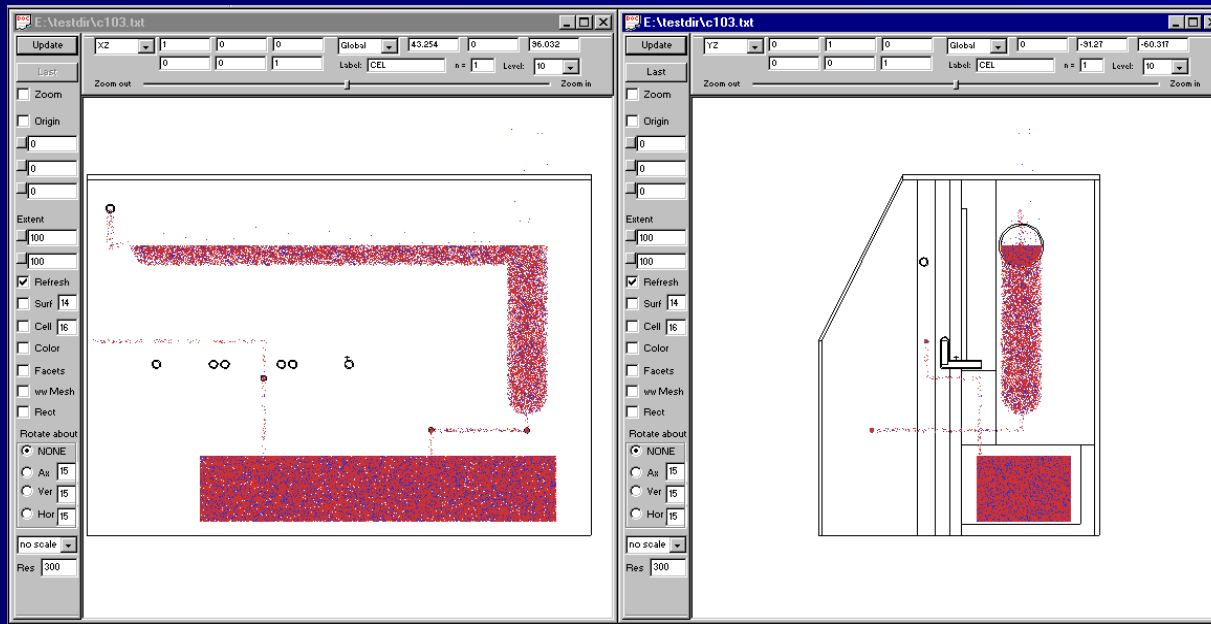
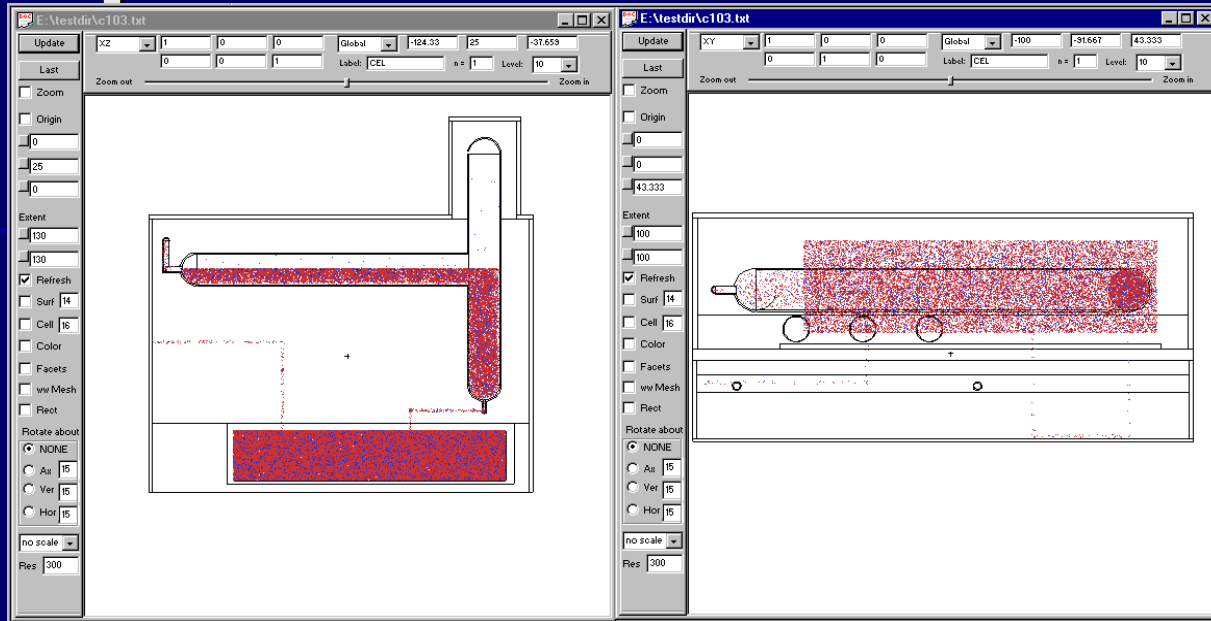
Color by Cell Draw lines around cells Color cells by material

Use 3D shading Use distance shading Point source

Hide plot plane image Hide cookie cutters Plot to outside world

Resolution:

Complex Source in a Glovebox



3D View of Complex Source

MCNP Visual Editor Version 12H - E:\testdir\c103.txt

File Input Update Plots Surface Cell Data Run Particle Display Tally Plots Cross section plots 3D View Read_again Backup View Help

E:\testdir\c103.txt

Update XZ 1 0 0 Global 116.83 0 24.102

Last 0 0 1 Label: CEL n = 1 Level: 10

Zoom out Zoom in

E:\testdir\c103.txt

Update XY 1 0 0 Global 48.413

Last 0 1 0 Label: CEL

Zoom out Zoom in

3D Plotting

Close Normal 3D Plot Radiographic 3D

NPS = 998498 CTME (secs) = 503.06

Viewpoint: X 20 Y -200 Z 60

Enter cell numbers to show in 3d in text box

13 4 5 6 7 8 10 22 23 24 25 26 27 30 31 37 40 42 44 47 49 51 53 55 57 59 61 63 65 67 69 71 73 75

3D data used to make the plot

Update Plot Basis

Horizontal	0.93544	0.091325	-0.027398
Vertical	-2.3203e-0	0.28735	0.95783

Origin-Source Vector: 0.095346 -0.95346 0.28604

Radiography Options

Darkness indicates ray length
Ray length corresponding to pure black (cm)

Darkness indicates (ray length) * (cross section)

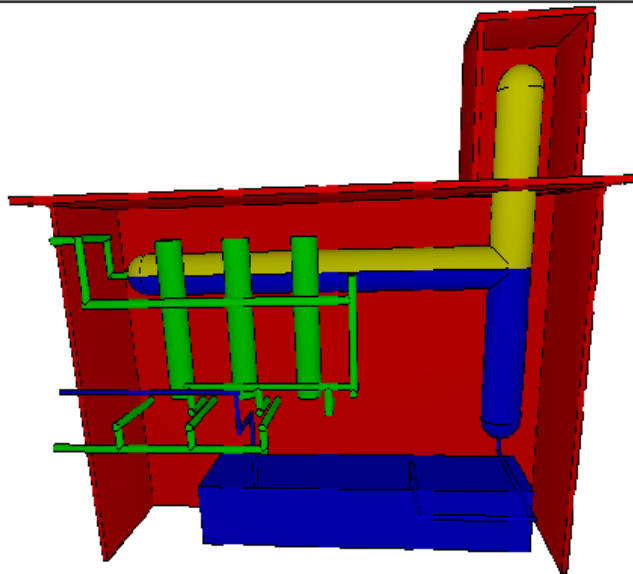
Color by Cell Draw lines around cells Color cells by material

Use 3D shading Use distance shading Point source

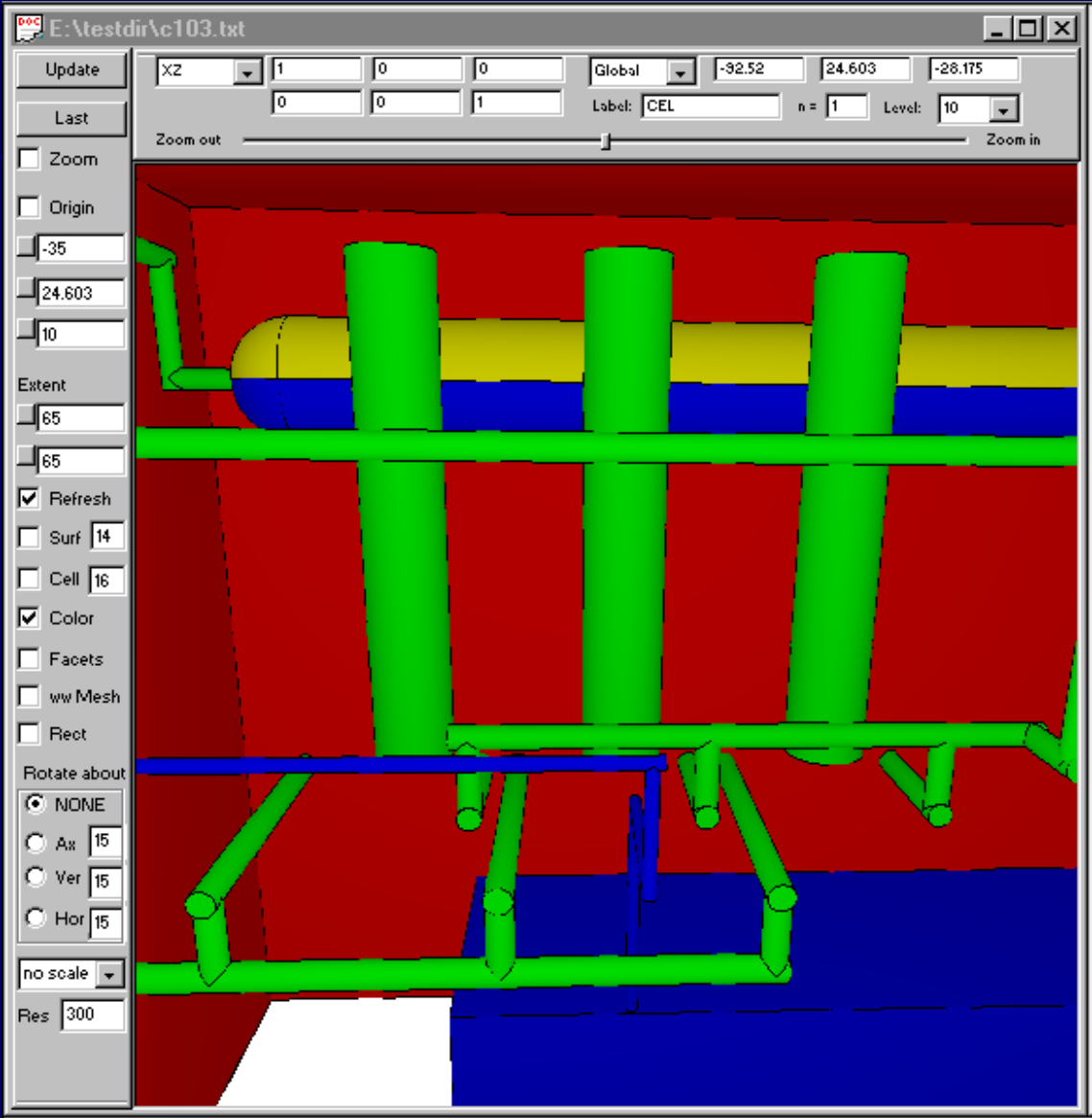
Hide plot plane image Hide cookie cutters Plot to outside world

Resolution: 1000

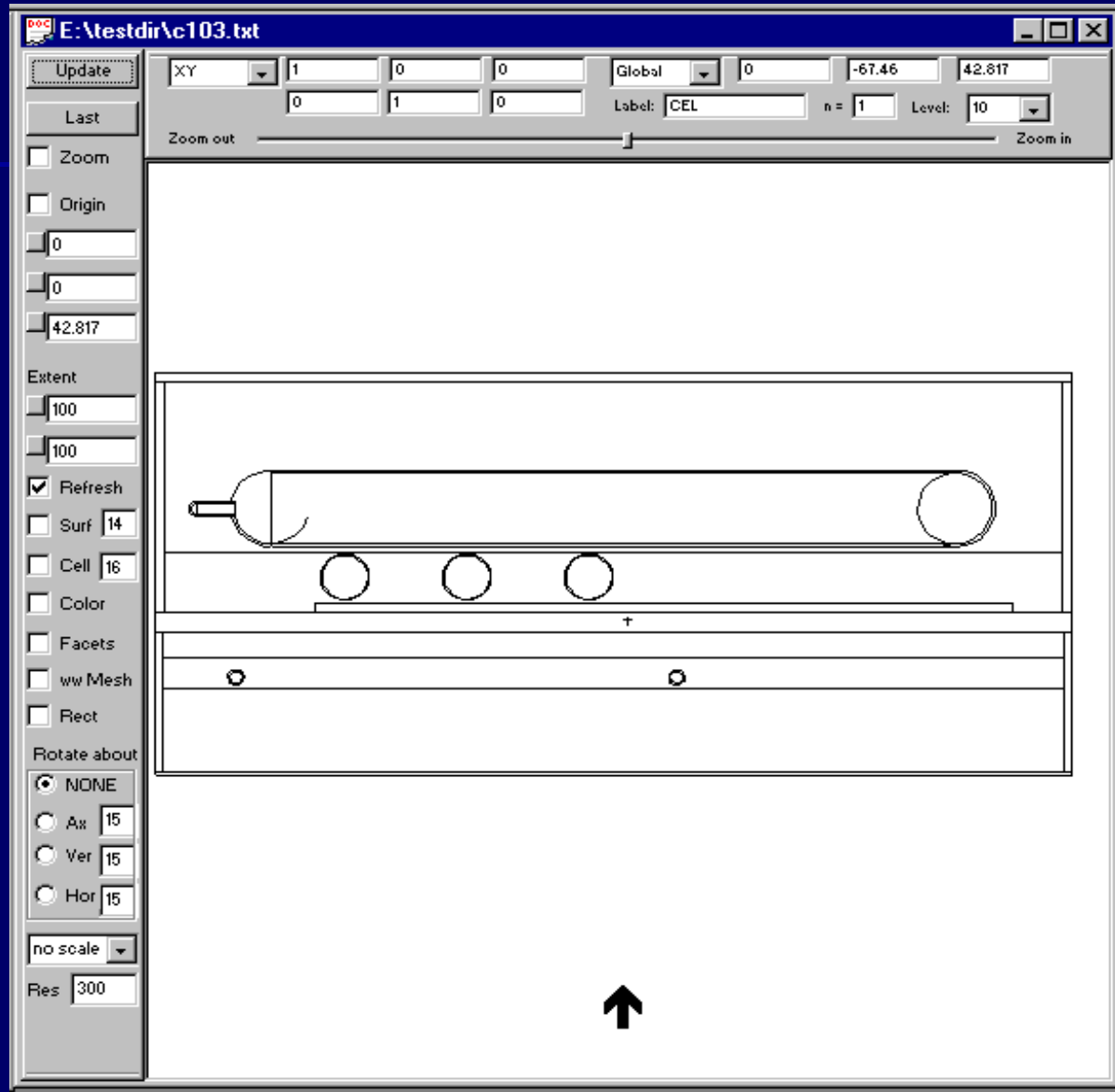
warning. tally 272 tfo bin did not pass 6 of 10 statistical checks.
warning. tally 282 tfo bin did not pass 6 of 10 statistical checks.
warning. 29 of 29 tallies did not pass all 10 statistical checks.
warning. 1 of 29 tallies had bins with large relative errors.
mcrun is done
.....



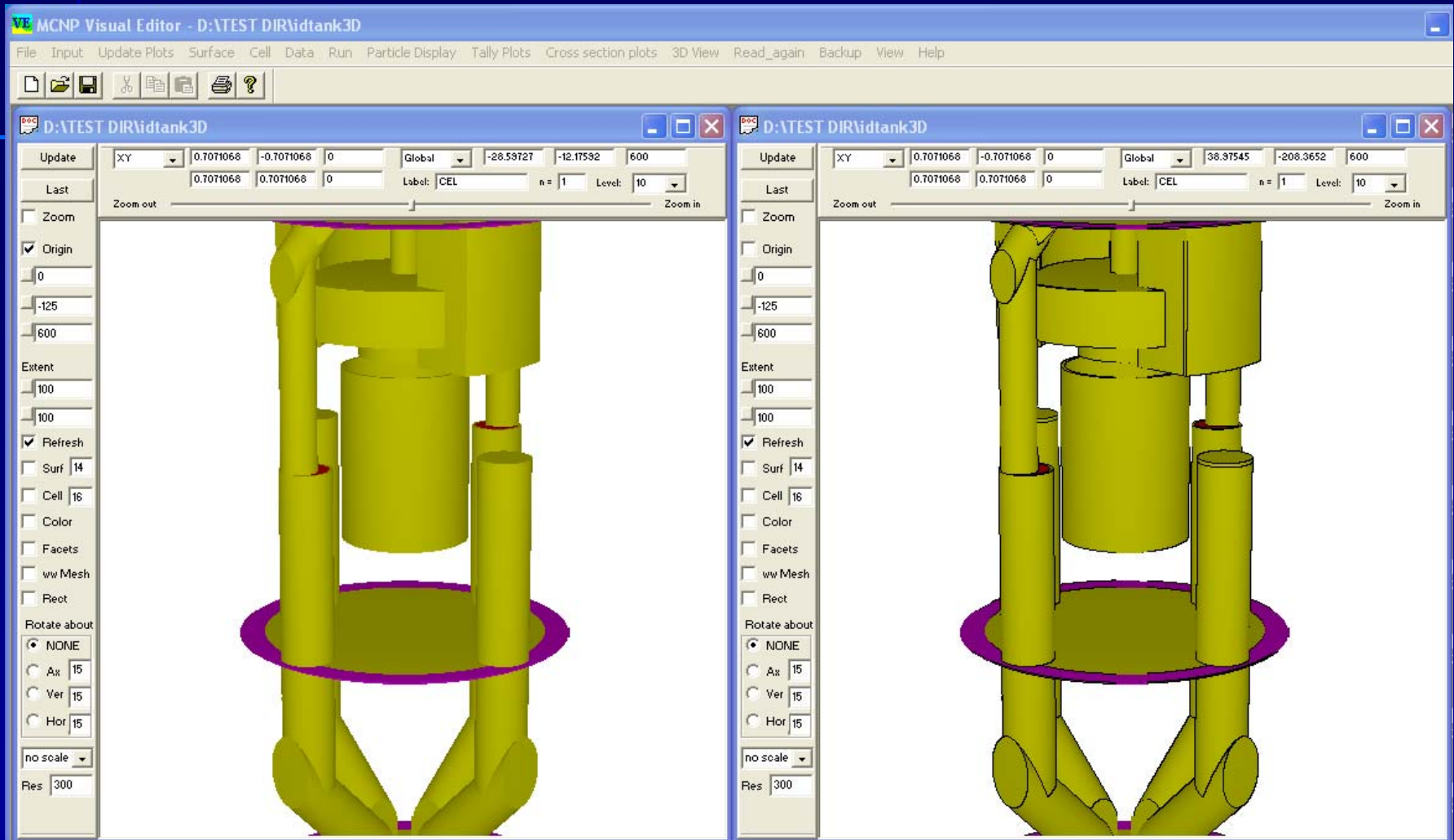
Close up of Glove Box Piping



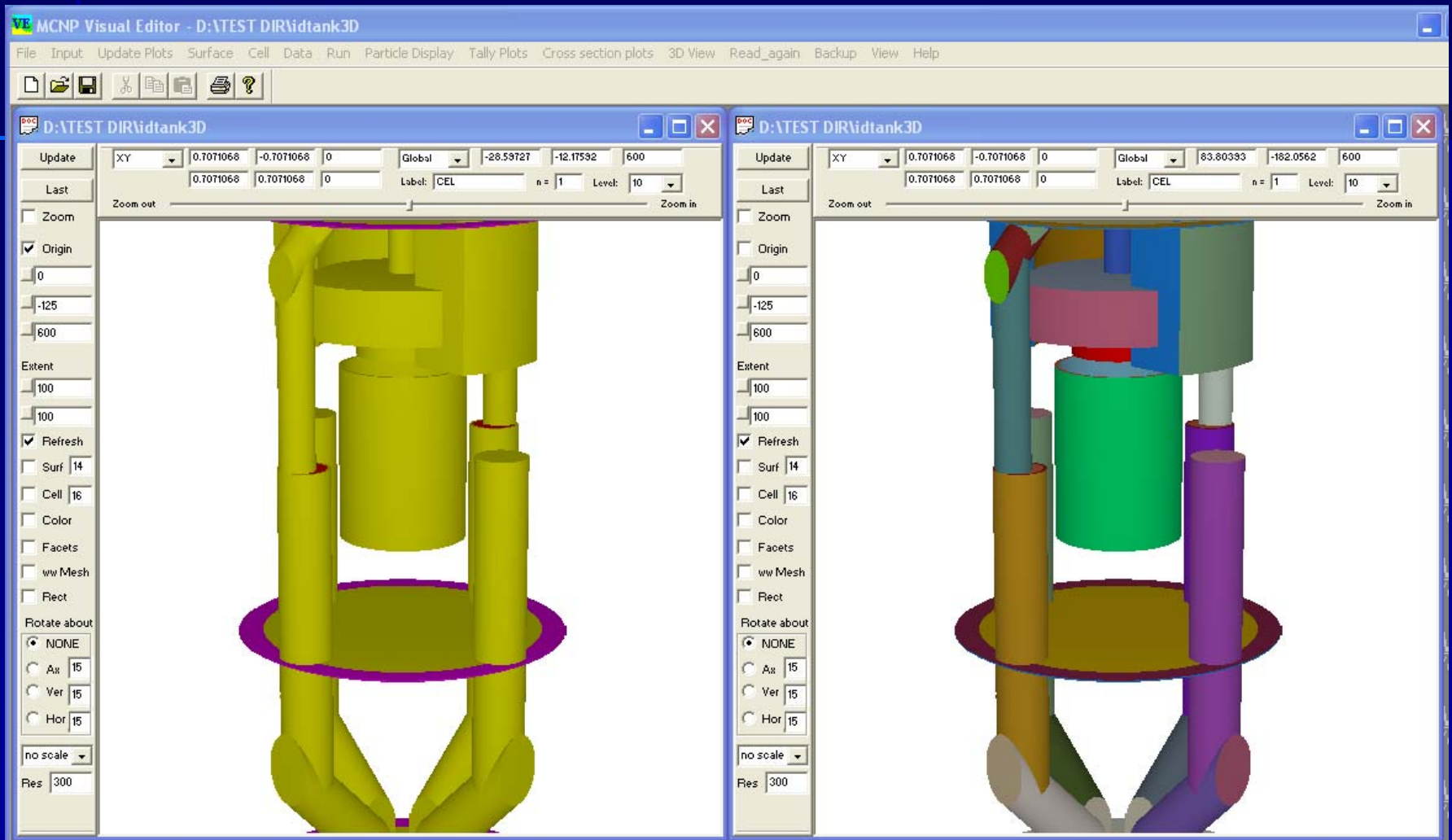
Set the Viewpoint in 2D



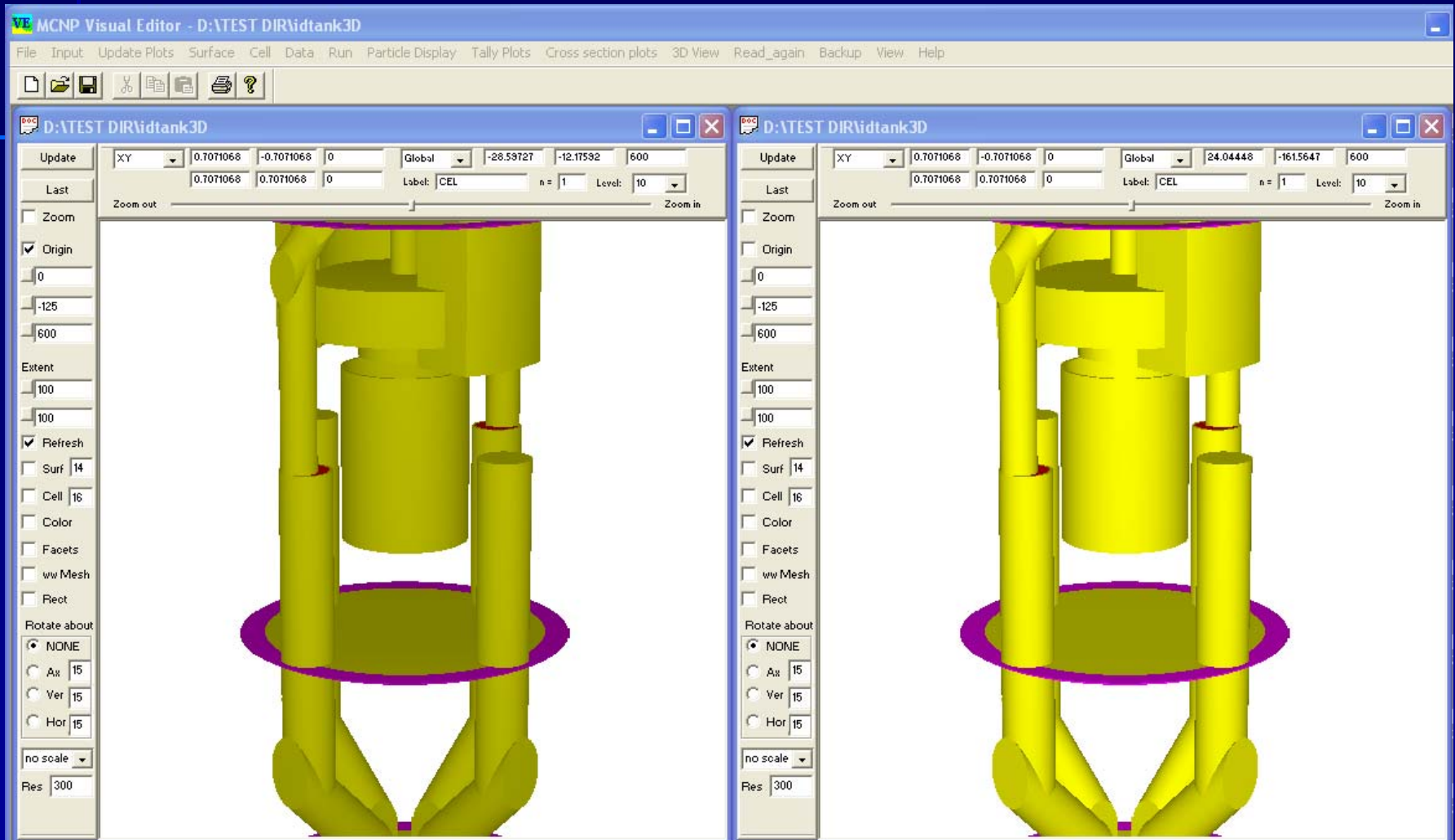
Draw lines around objects



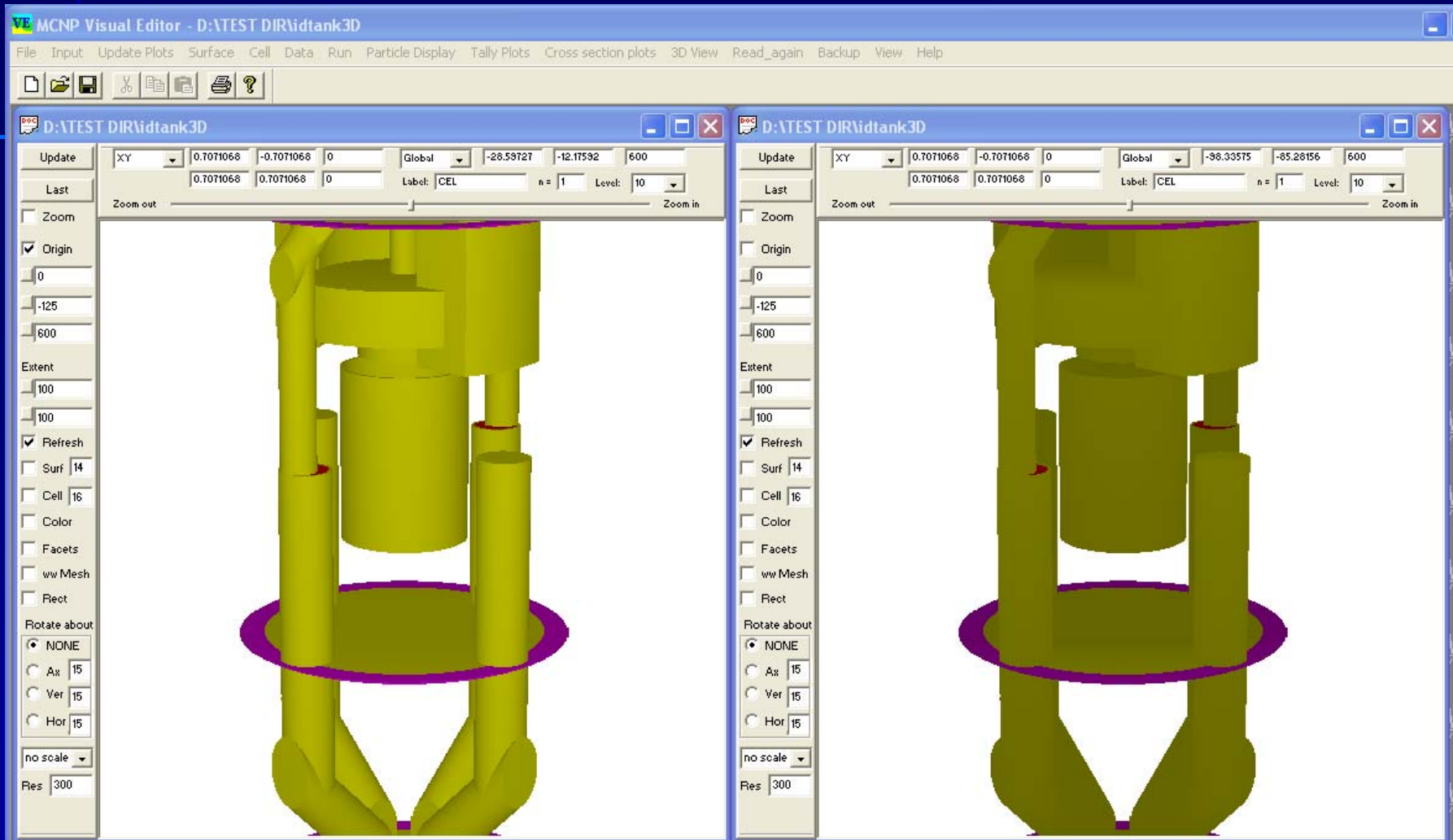
Color by surface



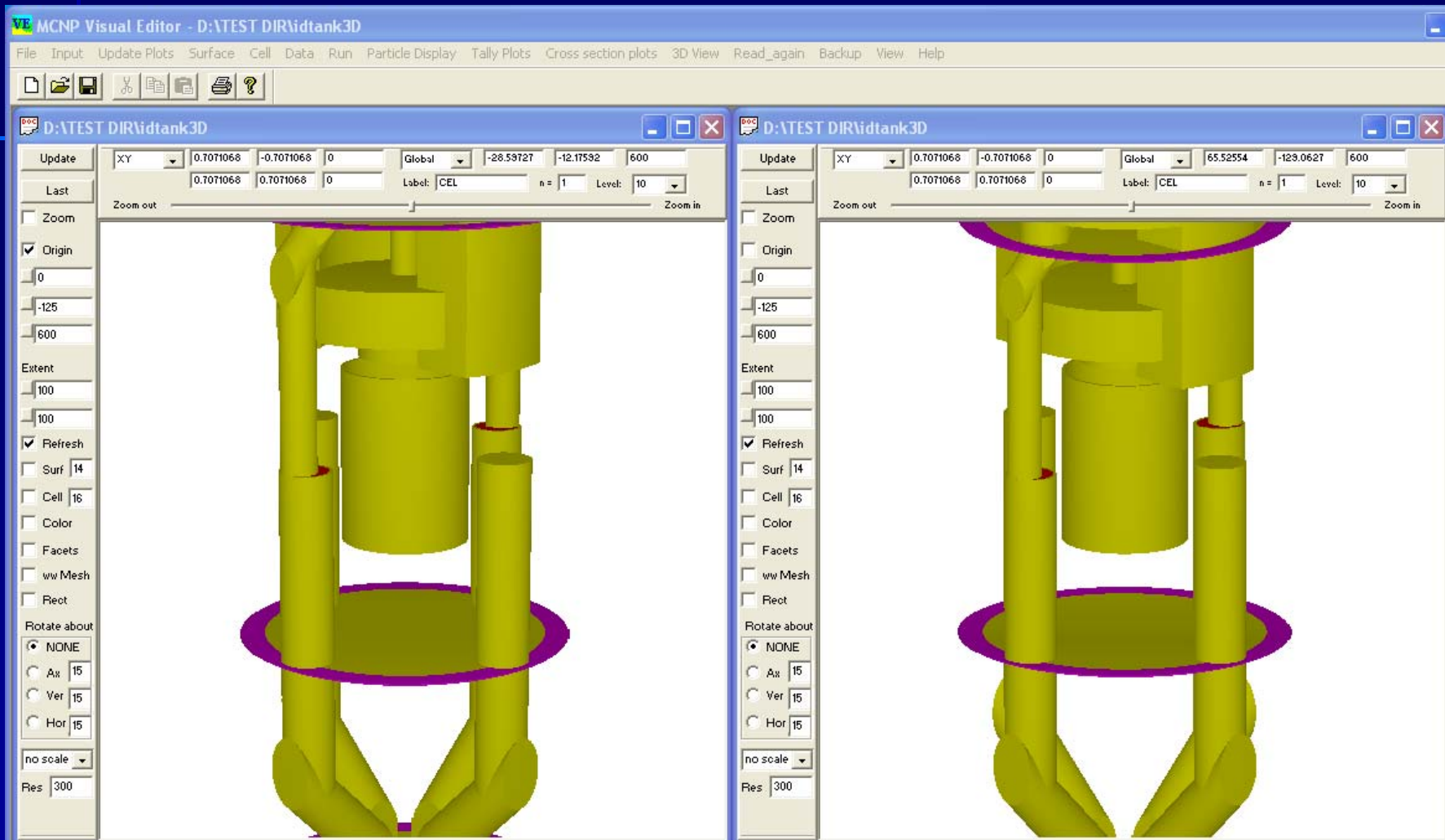
Turn off Distance Shading



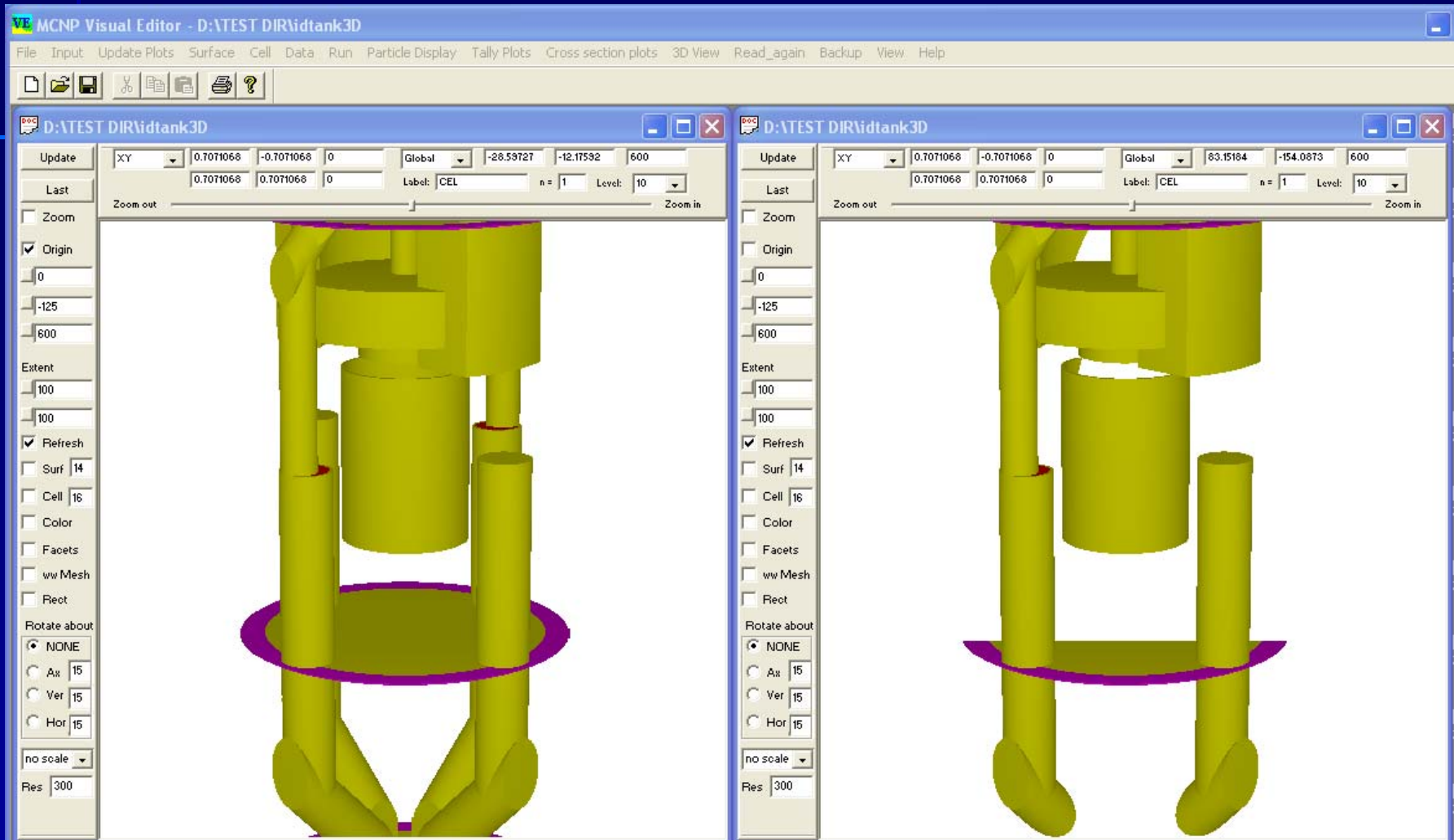
Turn off 3D Shading



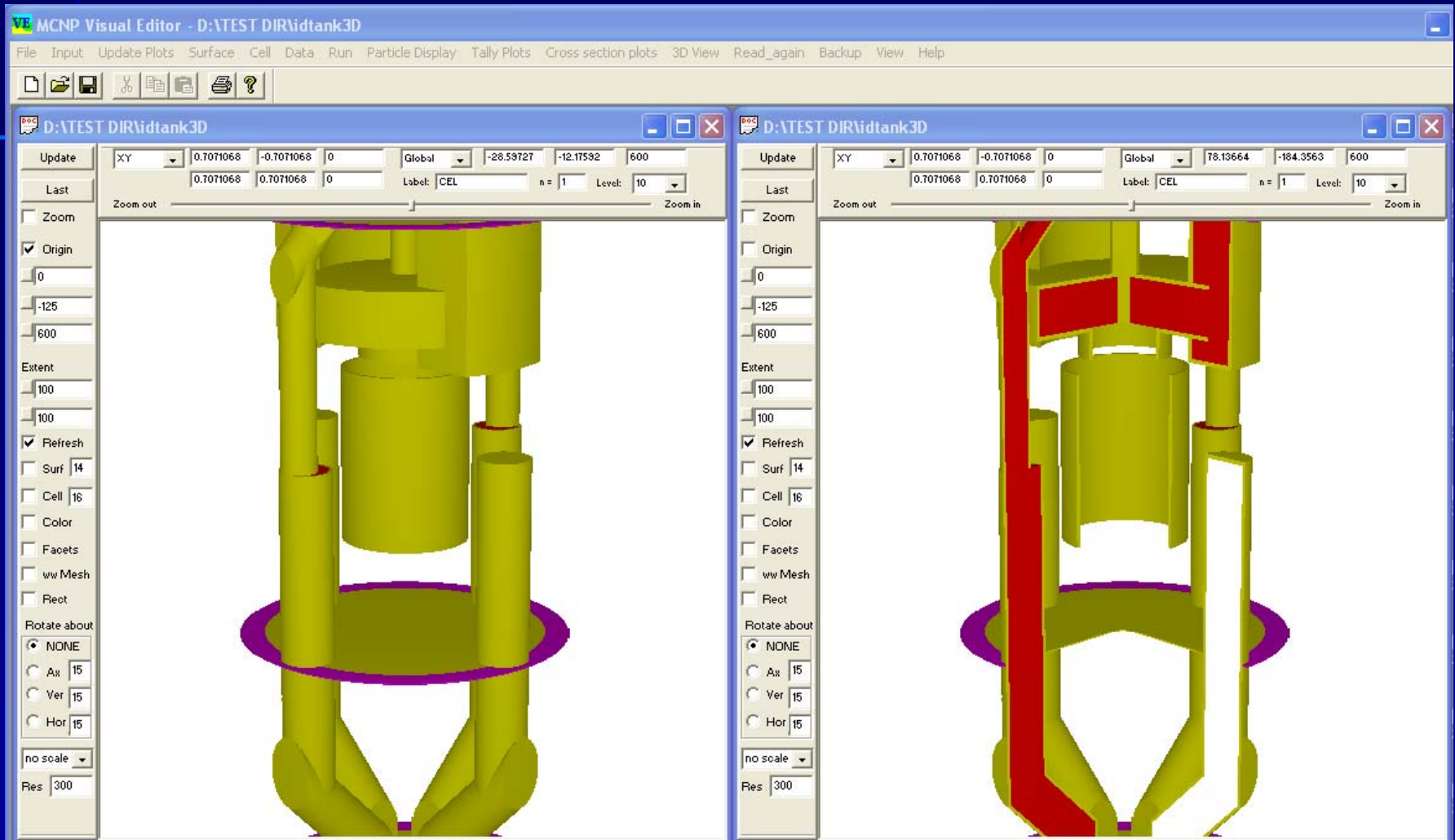
Use a Plane Source



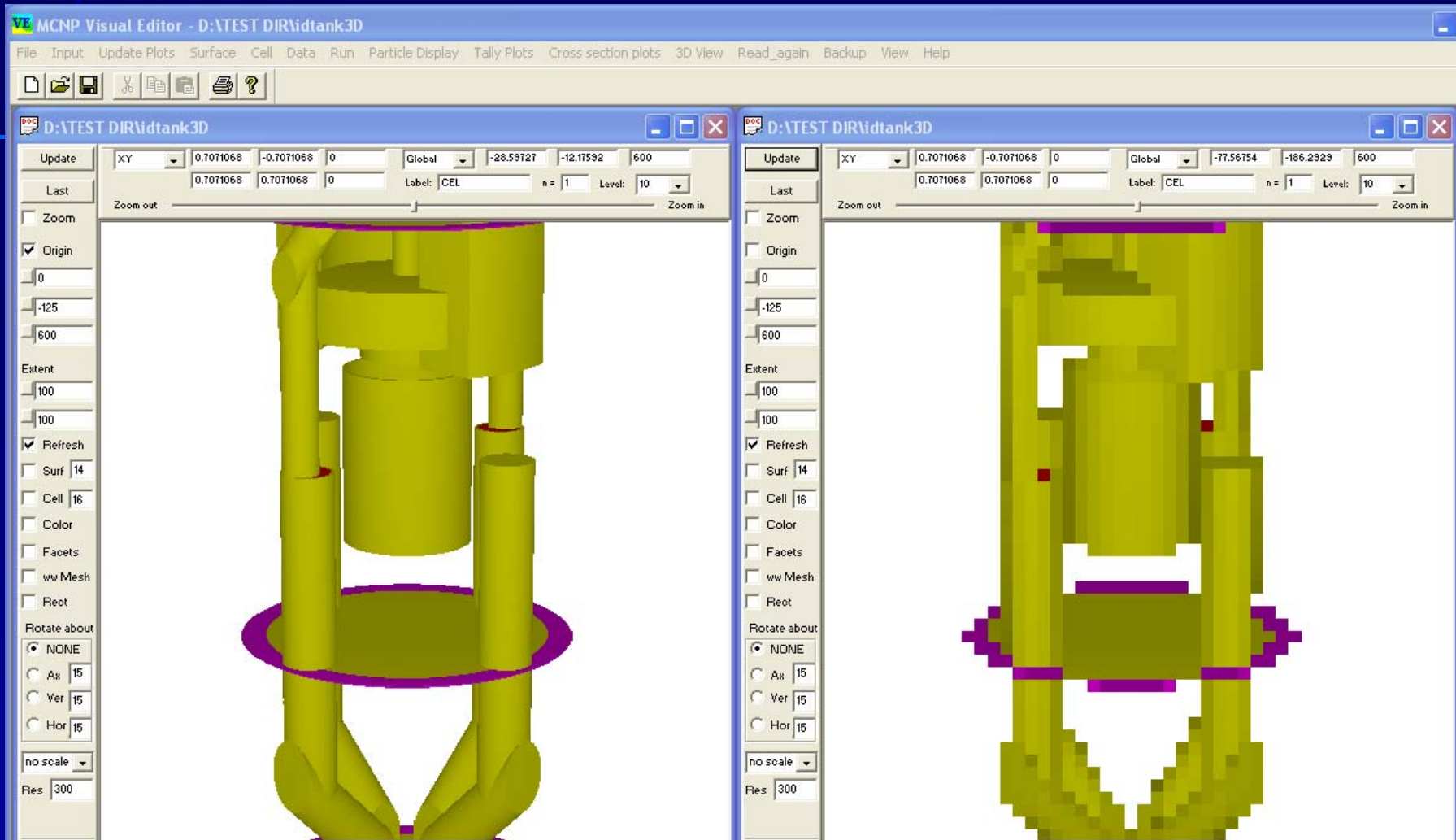
Stop at the Plot Plane



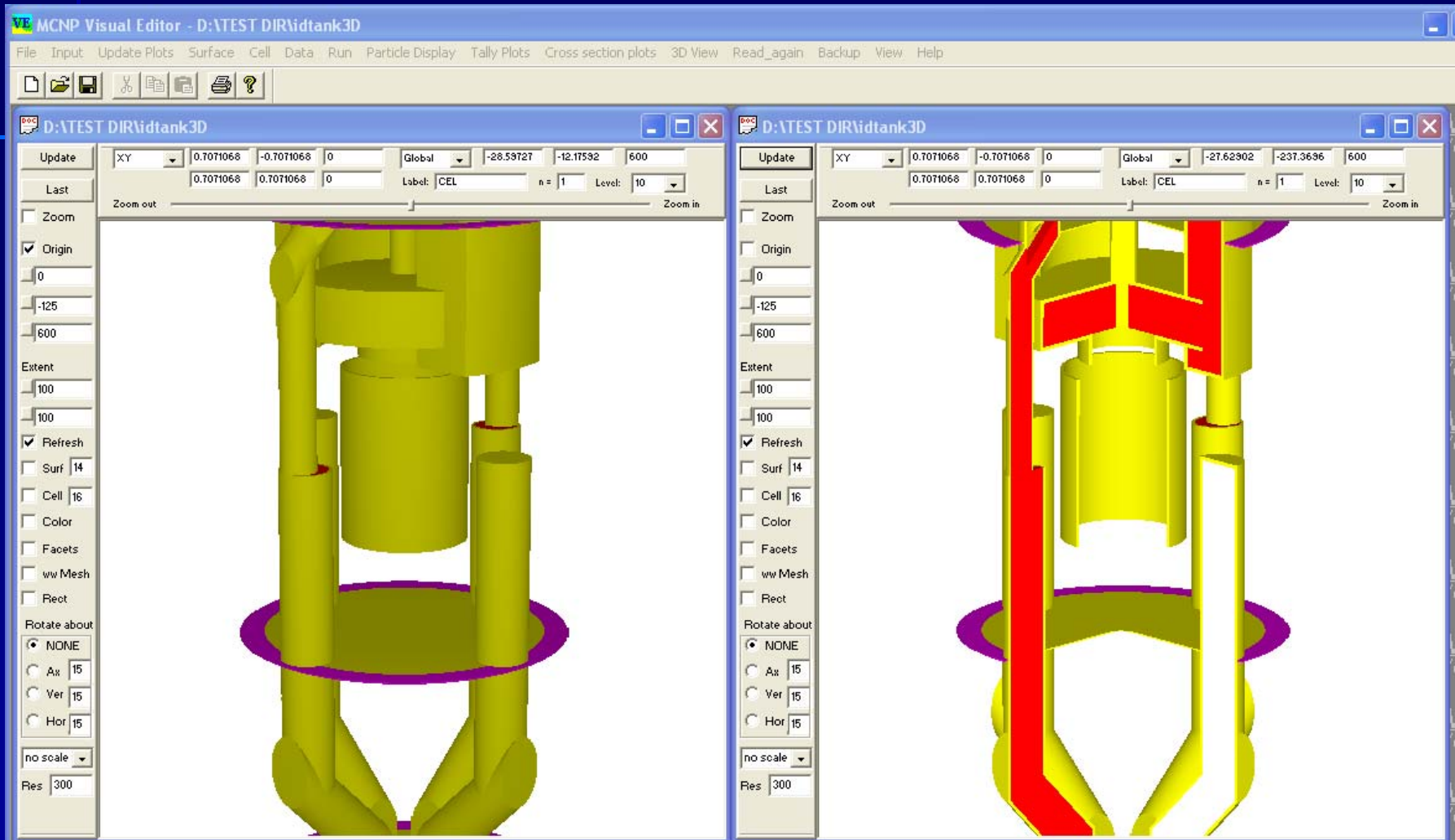
Show Cookie Cutter



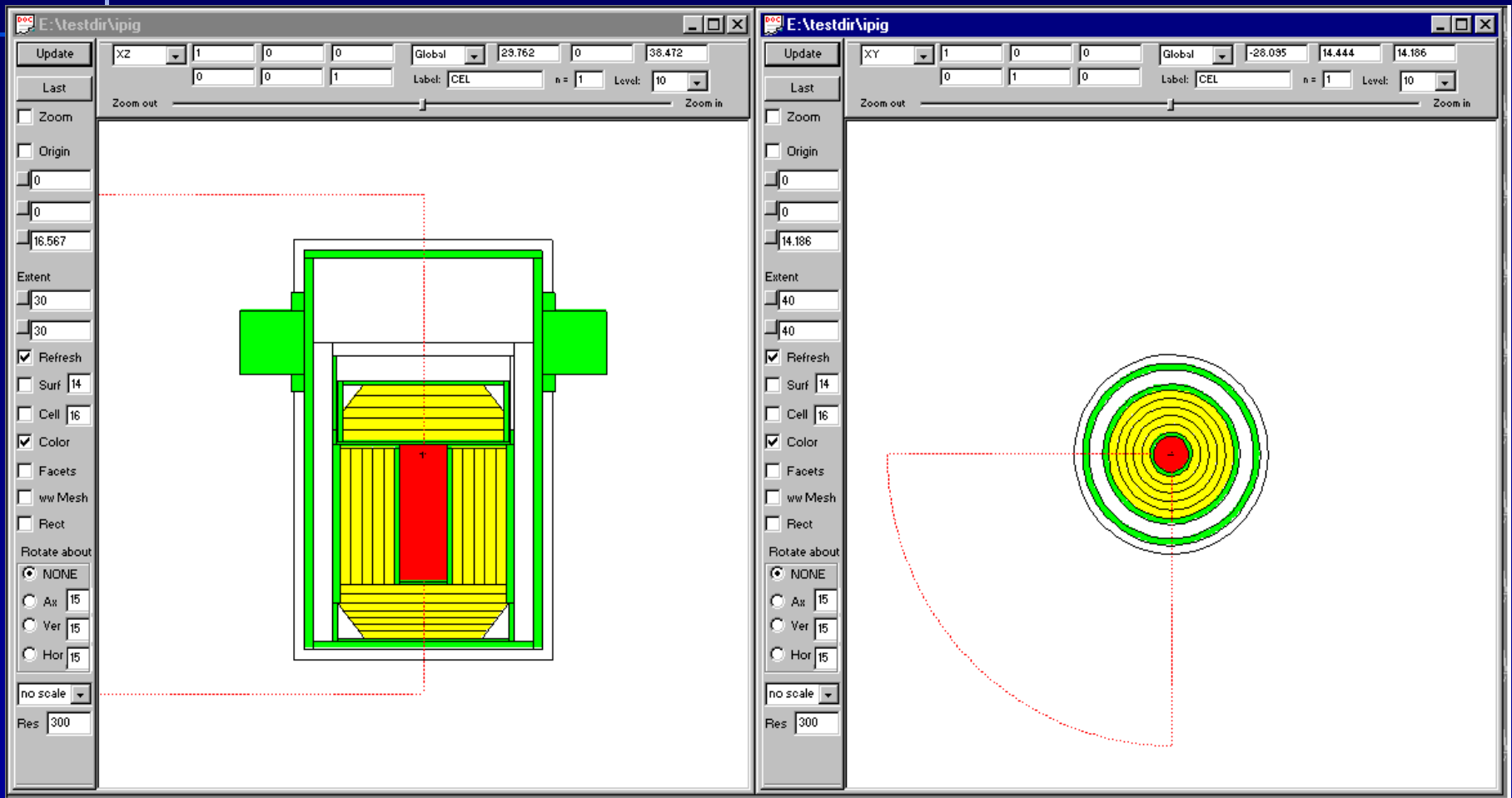
Reduce Resolution (500-50)



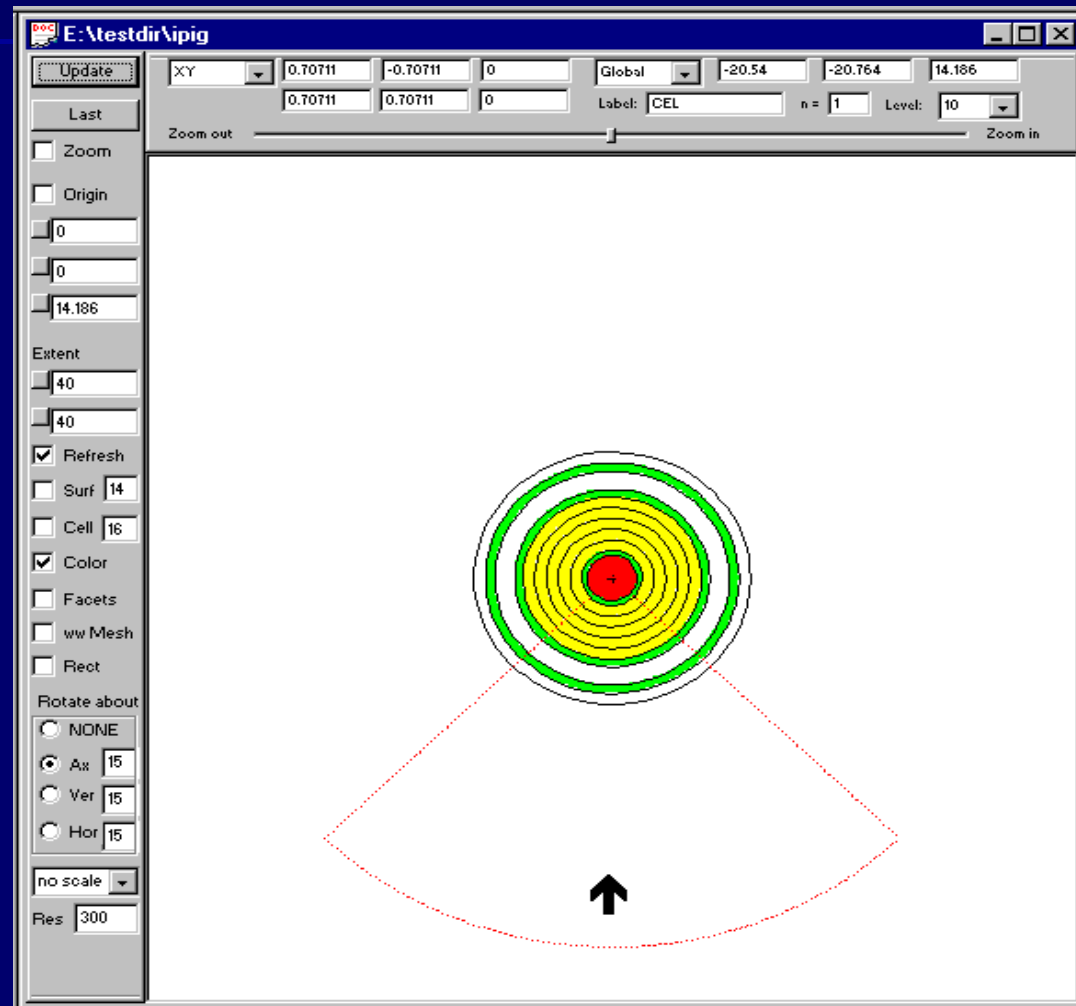
Combine Options



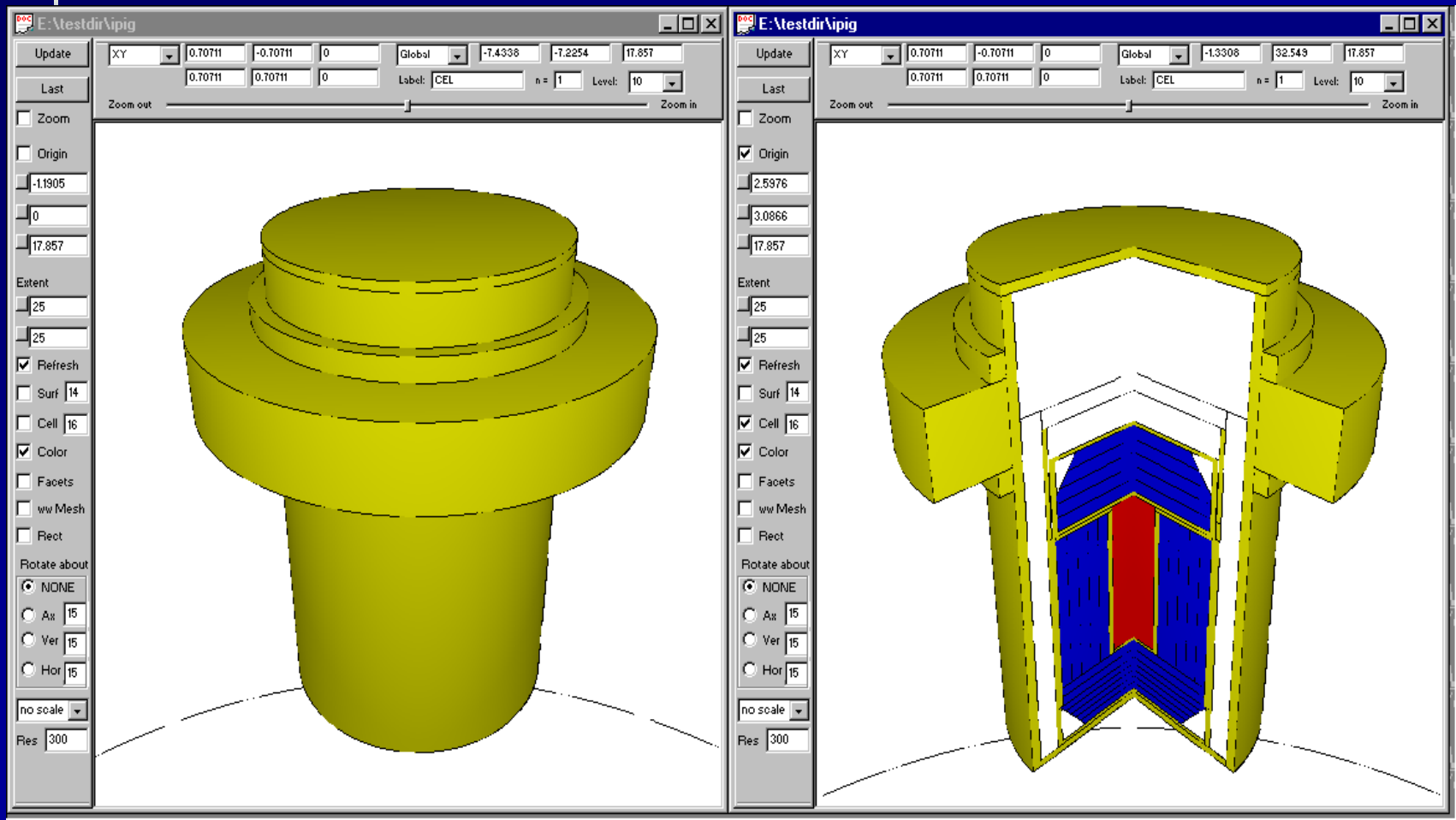
Using Cookie Cutters to Remove Geometry



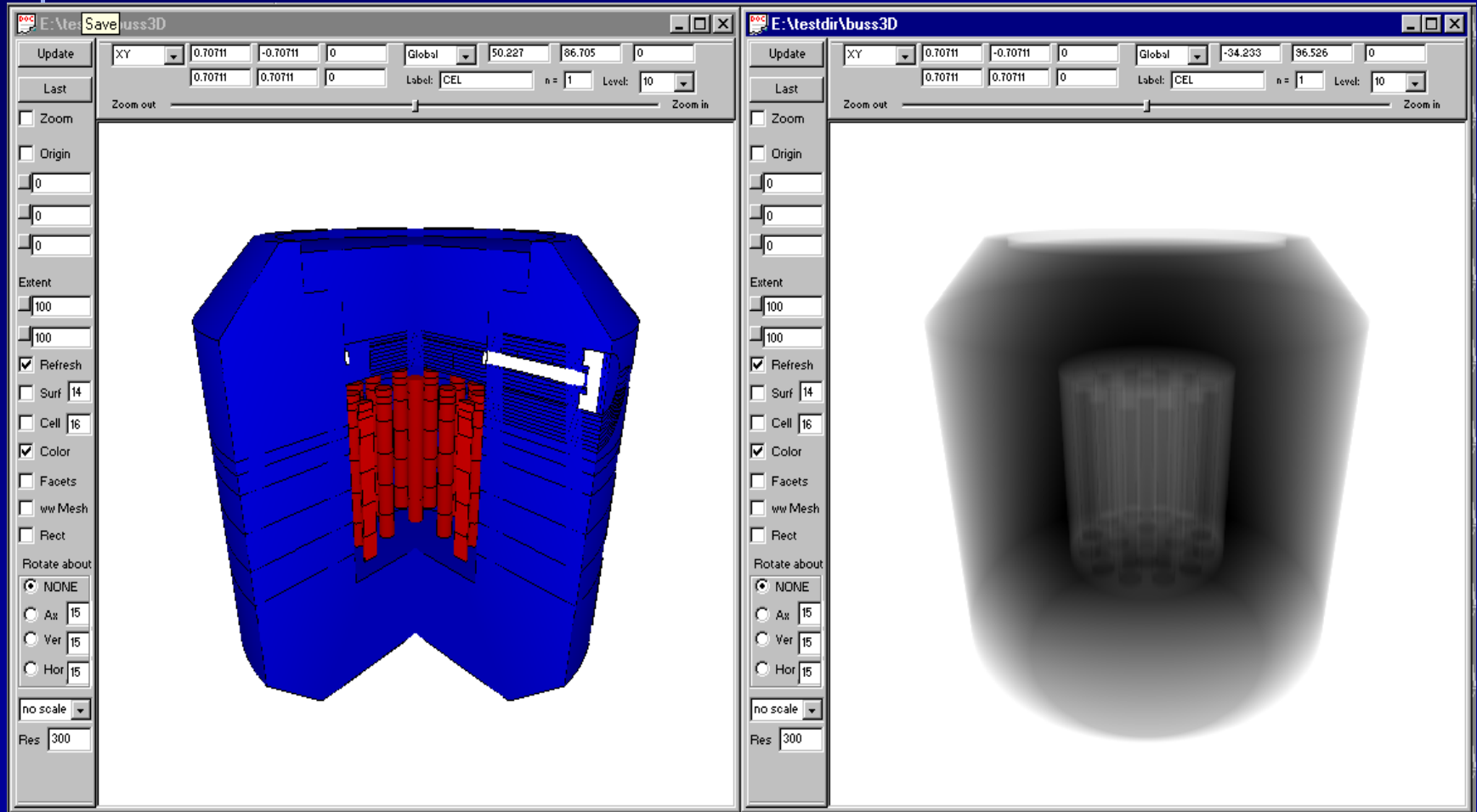
Set the Basis in 2D and Get the Viewpoint



Enable the Cookie Cutter



Radiographic Plot of a Cask



Radiographic Plots

- Need to specify maximum ray length
 - Code will calculate this if not known.
- Can optionally set an incident energy for the source. With this option, darkness represents incident energy times the cross section. (Density Plot)
- Show Darkness as a function of ray length inside a body.

Radiographic options in 3D Plot Panel

3D Plotting [Close] [Normal 3D Plot] [Radiographic 3D]

NPS = CTME (secs) =

Viewpoint: X Y Z

Enter cell numbers to show in 3d in text box below
Enter cell numbers or cell ranges separated by spaces or commas. For example, 14 5-6 8

3D data used to make the plot:

<input type="checkbox"/> Update Plot Basis	Horizontal	<input type="text" value="0.70711"/>	<input type="text" value="-0.70711"/>	<input type="text" value="0"/>
	Vertical	<input type="text" value="0.29016"/>	<input type="text" value="0.29016"/>	<input type="text" value="0.91193"/>
Origin-Source Vector:		<input type="text" value="-0.64483"/>	<input type="text" value="-0.64483"/>	<input type="text" value="0.41035"/>

Radiography Options

Darkness indicates ray length
Ray length corresponding to pure black (cm)

Darkness indicates (ray length) * (cross section)

Color by Cell [v] Draw lines around cells [v] Color cells by material [v]

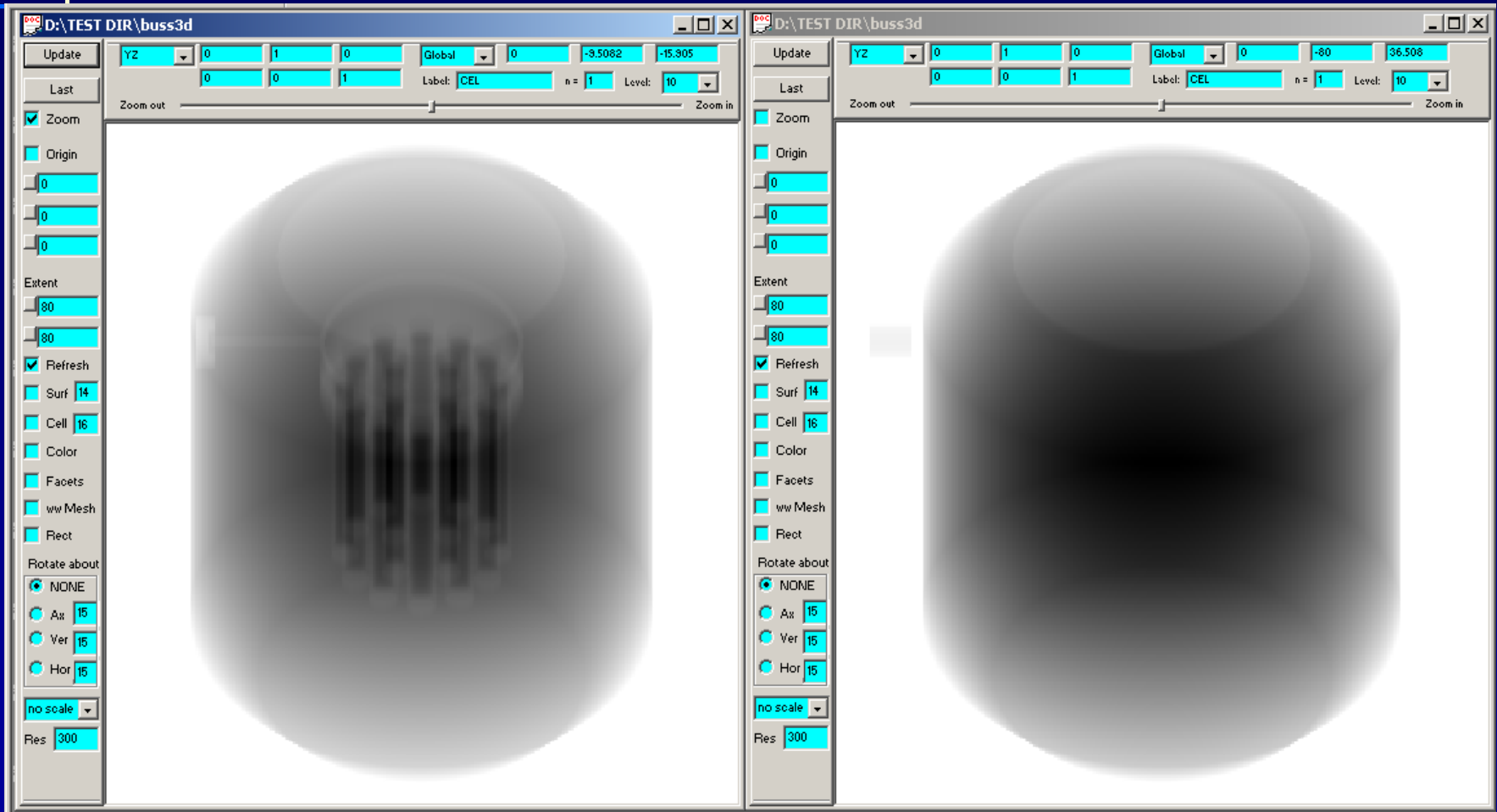
Use 3D shading [v] Use distance shading [v] Point source [v]

Hide plot plane image [v] Show cookie cutters [v] Plot to outside world [v]

Resolution:

```
warning. importance function may be poor. see print table 120.
warning. 1 of 1 tallies did not pass all 10 statistical checks.
warning. 1 of 1 tallies were all zeros.
mcrun is done
maximum radiographic length = 0.12075E+03
*****
```

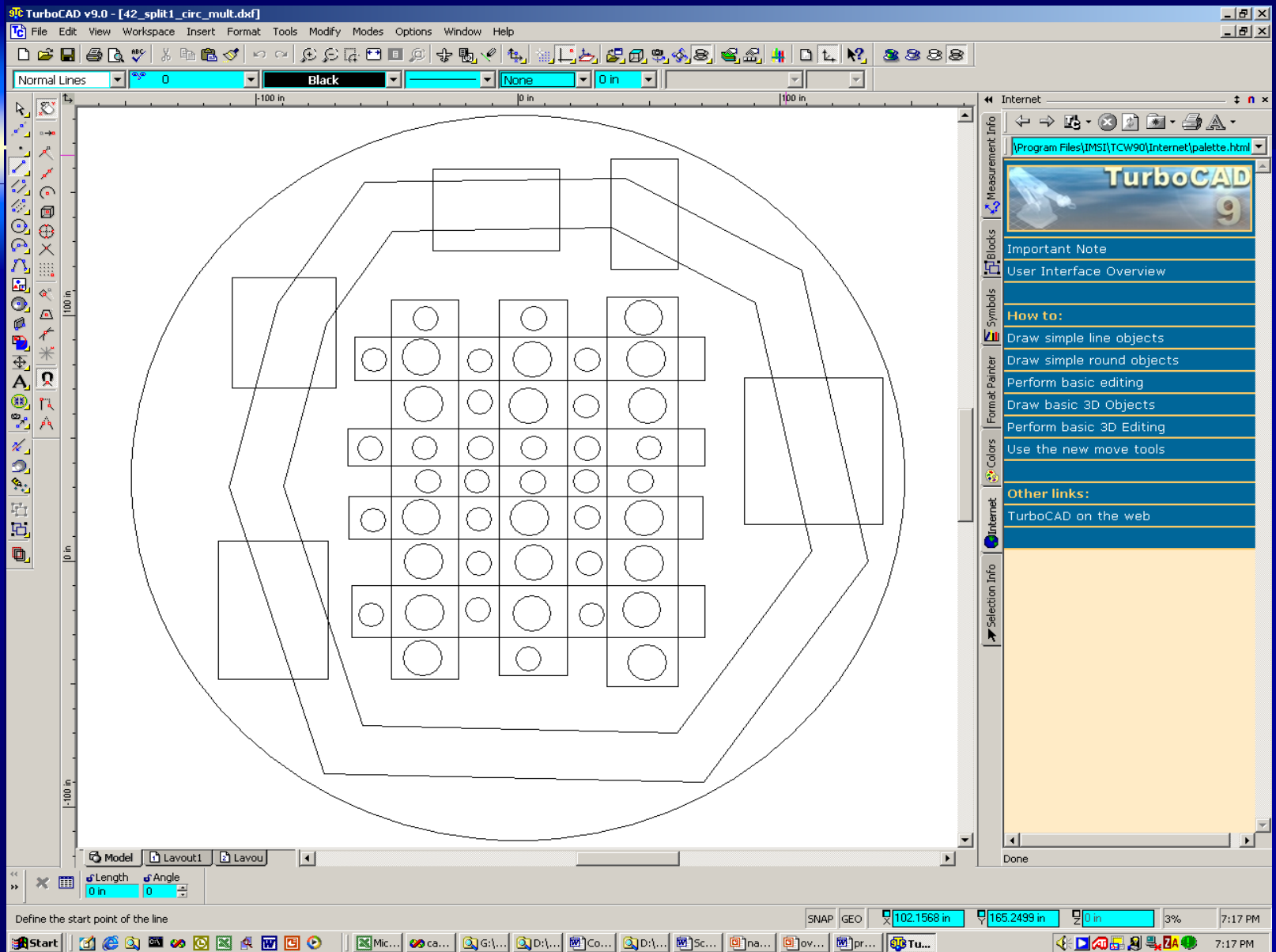
Radiographic Plot with 5 Mev Incident Source



Future Visual Editor Developments

- Upgrade Version 5 to Linux
 - Linux currently only available for 4C2
- Include Source Creation
- Include Tally Creation
- Include Support for other Data Cards.
- CAD import.

Currently Working on CAD Conversion



Currently Working on CAD Conversion

MCNP Visual Editor - G:\CAD\test problems\42_split1_circ_mult.dxf

File Input Update Plots Surface Cell Data Run Particle Display Tally Plots Cross section plots 3D View CAD import Read_again Backup View Help

Update: XY 1 0 0 Global 60.31837 176.6346 98.53144
Last: 0 1 0 Label: CEL n = 1 Level: 10
Zoom out Zoom in

Input File
Close Save -- Update Edit Save
File Name: impn
Creating file impn.sav
creating file impn.sav
creating file impn.sav
creating file impn.sav
creating file impn.sav
creating file impn.sav
creating file impn.sav

c CAD CONVERSION Created on: Tuesday, April 01, 2003 at 10:05

```
1 0 1
2 0 -1 ((111 113 -24):(24 88):(85 103):(104 -103 105):
(-105 85):(82 -85):(-79 -82 76):(-76 -18):(-102 18 -100):
(100 -76):(-73 -109):(-110 109 -107):(107 -94):(-91 -99):
(96 99 -97):(97 -91 -113))
3 0 ((113 :91 )(-111 :-113 )(-24 :111 :-88 )(88 :-91 ))
4 0 (-88 -89 87 24 )
5 0 (-85 103 84 89 )
6 0 (-103 -104 105 85 )
7 0 (-85 86 84 -105 )
8 0 (-82 83 81 -86 )
9 0 (79 80 -78 -83 )
10 0 ((-75 :-101 )(-80 :75 )(76 :80 :18 )(-18 :101 ))
11 0 (18 102 -100 -76 )
12 0 (76 77 -75 100 )
13 0 (73 -109 -72 -77 )
14 0 ((109 :73 )(110 :-109 )(-107 :-110 :94 )(-94 :-73 ))
15 0 ((94 :-107 )(-95 :-94 )(-93 :95 :-108 )(108 :107 ))
16 0 (91 -99 -90 95 )
17 0 (99 -96 -97 -91 )
18 0 (91 -113 -90 97 )
19 0 (18 76 -100 -75 -101 )
20 0 (-24 87 92 -88 )
21 0 ((90 :99 )(93 :-90 :-108 )(108 :-109 )(72 :109 )
(75 :-72 :-100 )(100 :101 )(75 :-101 )(78 :-75 )(-81 :-78 )
(-84 :81 :105 )(-105 :-106 :103 )(-84 :-103 )(-87 :84 :-24 )
(24 :-112 :-113 )(90 :113 :-97 )(97 :-98 :-99 ))((-5 4 -2 ):
(2 -19):(16 19 -17):(17 2 -22):(16 22 -20):(20 2 -26 ):
(23 26 -24):(24 2):(3 -2 4):(-4 24 6):(3 -6 7):(-7 24 9 ):
(10 -9 11):(-11 24 13):(3 -13 14):(-14 24):(-25 -24 26 ):
(-26 -14 20):(-21 -20 22):(-22 -14 17):(-18 -17 19):(-19 -14 ):
(-15 14 -13):(13 -19 -11):(-12 11 -9):(9 -19 -7):(-8 7 -6 ):
(75 :-72 :-100 )(100 :101 )(75 :-101 )(78 :-75 )(-81 :-78 )
(-84 :81 :105 )(-105 :-106 :103 )(-84 :-103 )(-87 :84 :-24 )
(24 :-112 :-113 )(90 :113 :-97 )(97 :-98 :-99 ))((-5 4 -2 ):
(2 -19):(16 19 -17):(17 2 -22):(16 22 -20):(20 2 -26 ):
(23 26 -24):(24 2):(3 -2 4):(-4 24 6):(3 -6 7):(-7 24 9 ):
(10 -9 11):(-11 24 13):(3 -13 14):(-14 24):(-25 -24 26 ):
(-26 -14 20):(-21 -20 22):(-22 -14 17):(-18 -17 19):(-19 -14 ):
(-15 14 -13):(13 -19 -11):(-12 11 -9):(9 -19 -7):(-8 7 -6 ):
```

CAD import
close Import Segment Convert Delete Write
 Create Surfaces Only Max allowed gap in connecting surfaces: 1e-005
 Add Axial Surfaces
Lower elevation: Upper elevation:
 Activate Scan

How to Get the Visual Editor

- Executable is being released with Version 5 of MCNP.
 - Only has a Windows executable.
 - MCNP release more recent than the Vised executable.
- Linux can be obtained from the Vised 4C2 package.
 - Linux executable.
 - Linux source codes.

Additional Information

- Development Web Site.

www.mcnpvised.com

- Future Classes
 - June 2-6
 - September 8-12

