Exercise 3

7th FLUKA Course

NEA Paris, Sept.29-Oct.3, 2008

Ex #3

download the solution of ex2.inp from the website into a new ex3 directory and rename it to ex3.inp

open it using FLAIR

- convert the cylinder to an infinite one

use a ZCC body for the cylinder

use two XYP planes, at z=0. and z=10.cm, to cut it

re-define the regions TARGET and VAC

run

Ex #3

- segment the target into three pieces by two transverse cuts

first segment: from z=0. to z=1.cm (new XYP needed)

second segment: from z=1.cm to z=2.cm (new XYP needed)

third segment: from z=2.cm to z=10.cm (no further bodies needed)

define the 3 target regions

assign them water, ALUMINUM (pre-def), and LEAD (pre-def)

- activate the geometry debugging with a 1mm grid from (x,y,z)=(-6.,0.,-6.) to (x,y,z)=(6.,0.,11.)

see in the manual the GEOEND card

run, search for *Geometry debugging* in the .out file, and enjoy the lack of errors

- perform the same operation by the dedicated FLAIR Process/Debug frame