

sample.f

```

¥ integer i, icases, idin, ie, ifti, ifto, ii, iiz, imed, ireg, isam,
* izn, nlist, j, k, n, ner, ntype, idum, ne
character*24 medarr(MXMED)

! (1) Open files
open(6, FILE='egs5job.out', STATUS='unknown') ! General output
open(4, FILE='egs5job.inp', STATUS='old') ! CG input
open(39, FILE='egs5job.pic', STATUS='unknown') ! CG output
open(90, FILE='spcg.dat', STATUS='unknown') ! spc-gamma output

! (2) Initialization
call counters_out(0)
call block_set

!ooo (3) User setting parameters-1 (link PEGS5-material to EGS5 med)
nmed=4
medarr(1)='NAI'
medarr(2)='AL'
medarr(3)='QUARTZ'
medarr(4)='AIR-AT-NTP'

!ooo (4) User setting parameters-2
ncases = 100000 ! number of calculations
maxpict = 200 ! number of incident radiations in CG
chard(1) = 7.62d0 ! set character dimensions

```

number of Mediums

Medium-1 is NAI
Medium-2 is Al

sample.data

RCC	1	0	0	0	0	7.62	3.81
RCC	2	0	0	-0.5	0	8.12	4.31
RCC	3	0	0	-0.6	0	8.72	4.41
RCC	4	0	0	7.62	0	0.5	4.31
RCC	5	0	0	-10.0	0	30	20

Surface-1 is RCC
Surface-2 is RCC

Reg.-1 is inside of Surface-1
Reg.-2 is inside of Surface-2
and outside of Surface-1

Z1	+1				
Z2	+2	-1			
Z3	+3	-2	-4		
Z4	+4				
Z5	+5	-3			
Z6		-5			

Region 1 is filled by Medium 1
Region 2 is vacuum
Region 3 is filled by Medium 2
Region 4 is filled by Medium 3

Med. of Reg.1 Med. of Reg.2 ...

sample.inp

(the order of Mediums are free)

```

COMP
&INP NE=2,RHO=3.67, PZ=1,1 IRAYL=1 /END
NAI
NA I
ENER
&INP AE=0.521,AP=0.0100,UE=2.511,UP=2.0 /END
PWLF
&INP /END
DECK
&INP /END
ELEM
&INP IRAYL=1 /END
AL
AL
ENER
&INP AE=0.521,AP=0.010,UE=2.511,UP=2.0 /END
PWLF
&INP /END
DECK
&INP /END
COMP
&INP NE=2,RHO=2.20, PZ=1,2, IRAYL=1 /END
QUARTZ
SIO2
SI O
ENER
&INP AE=0.521,AP=0.0100,UE=2.511,UP=2.0 /END
PWLF
&INP /END
DECK
&INP /END
MIXT
&INP NE=3,RHO= 1.2929E-03,RHOZ= 0.755,0.232,0.013,
GASP=0.93174,IRAYL=1 /END
AIR-AT-NTP
AIR-GAS
N O AR
ENER
&INP AE=0.521,AP=0.010,UE=2.511,UP=2.0 /END
PWLF
&INP /END
DECK
&INP /END

```