

APPENDIX6

```

/post1
set,last

esel,,mat,,2
*get,emx,elem,,num,max
*get,emn,elem,,num,min

etable,mytp,temp
etable,mycx,cent,x

*vget,newt(1),elem,1,etab,mytp
*vget,newx(1),elem,1,etab,mycx

*do,i,emn,emx
  rre(i)=(newt(i)-30)*6.023e-3
  *if,rre(i),lt,0,then
    rre(i)=0
  *endif
  *if,newt(i),gt,300,then
    rre(i)=270*6.023e-3
  *endif
*enddo

fini
/prep7

esel,,mat,,2
nsle
nsel,r,loc,x,0,1.5
esln
esel,r,mat,,2
*get,emx,elem,,num,max
*get,emn,elem,,num,min

*do,i,emn,emx

*if,esel(i),eq,1,then
  qqe = rre(i)*4.8378
  bfe,i,hgen,,qqe
*endif

*enddo

esel,,mat,,2
nsle
nsel,r,loc,x,1.5,3
esln
esel,r,mat,,2
*get,emx,elem,,num,max
*get,emn,elem,,num,min
*do,i,emn,emx
*if,esel(i),eq,1,then
  qqe = rre(i)*0.8067
  bfe,i,hgen,,qqe
*endif
*enddo

```

```

esel,all
nsel,all

fini
/post1
set,last
/ratio
lpath,1135,1241,1249,1266,1295,1318,1238
pdef,tp1,temp
pcalc,deri,dt1,tp1,s
*get,dtin,path,,item,dt1,pathpt,1

lpath,2886,2994,3000,3017,3045,3067,2989
pdef,tp2,temp
pcalc,deri,dt2,tp2,s
*get,dtou,path,,item,dt2,pathpt,1

fini
/prep7

theat1=3.6372*dtin
theta2=8.9068*dtou
! heat influxes (Watts)

tevap1=theat1/40/16.45e-3
tevap3=theta2/40/16.45e-3
tevap2=tevap1+tevap3
! evaperations (cm^3/s)

v1=tevap1/1.9806
v2=tevap2/10.494
v3=tevap3/21.849
! flow velocities (cm/s)

dl,1,,vy,v1*1.1
dl,8,,vy,v2*1.1
dl,14,,vy,v3*1.1
alls
save
fini
/sol
solv
fini

```