```
&INDATA
VERS = '3.50' ,
TITLE = 'HPNS RESRAD-BUILD Adult Resident Risk',
DCFL = 'HPNS Adult',
NUM_SAMPS = 0, NUMVAR = 0, NUM_SENS = 0,
ND =  1 , NS =  10 , NTIME =  2 , NROOM = 1 ,
TTIME = 7300, FTIN = 0.96 ,
DOSE_TIME =  0 , 6,
AREA = 9.3,
H = 3.05,
DLVL =  1 ,
TWGHT = 1,
BRTRATE = 20,
INGE2 = 0.0001,
DX( 1 , 1 )=1.5,
DX( 1 , 2 )=1.5,
DX( 1 , 3 )=1,
SX( 1 , 1 )=1.5,
SX( 1 , 2 )=1.5,
SX( 1 , 3 )=0,
SX( 2 , 1 )=1.5,
SX( 2 , 2 )=1.5,
SX( 2 , 3 )=0,
SX( 3 , 1 )=1.5,
SX( 3 , 2 )=1.5,
SX( 3 , 3 )=0,
SX( 4 , 1 )=1.5,
SX( 4 , 2 )=1.5,
SX( 4 , 3 )=0,
SX( 5 , 1 )=1.5,
SX( 5 , 2 )=1.5,
SX( 5 , 3 )=0,
SX( 6 , 1 )=1.5,
SX( 6 , 2 )=1.5,
SX( 6 , 3 )=0,
SX( 7 , 1 )=1.5,
SX( 7 , 2 )=1.5,
SX( 7 , 3 )=0,
SX( 8 , 1 )=1.5,
```

```
SX( 8 , 2 )=1.5,
SX( 8 , 3 )=0,
SX( 9 , 1 )=1.5,
SX( 9 , 2 )=1.5,
SX( 9 , 3 )=0,
SX( 10 , 1 )=1.5,
SX( 10 , 2 )=1.5,
SX( 10 , 3 )=0,
SDIR =  3 , 3 , 3 , 3 , 3 , 3 , 3 , 3 , 3 , 3 ,
STYPE =  2 , 2 , 2 , 2 , 2 , 2 , 2 , 2 , 2 , 2 ,
SAREA = 0,0,0,0,0,0,0,0,0,0,
NNUCS =  1 , 1 , 1 , 1 , 1 , 1 , 1 , 3 , 1 , 3 ,
RRF = 0.1,0.1,0.1,0.1,0.1,0.1,0.1,0.4,0.4,0.02,
AIRFR = 0.1,0.1,0.1,0.1,0.1,0.1,0.1,0.1,0.1,0.1,
RMVFR = 0.2,0.2,0.2,0.2,0.2,0.2,0.2,0.2,0.2,0.2,
SLVL( 1 , 1 )= 1 ,
SLVL( 1 , 2 )= 1 ,
SLVL( 2 , 1 )= 1 ,
SLVL( 2 , 2 )= 1 ,
SLVL( 3 , 1 )= 1 ,
SLVL( 3 , 2 )= 1 ,
SLVL( 4 , 1 )= 1 ,
SLVL( 4 , 2 )= 1 ,
SLVL( 5 , 1 )= 1 ,
SLVL( 5 , 2 )= 1 ,
SLVL( 6 , 1 )= 1 ,
SLVL( 6 , 2 )= 1 ,
SLVL( 7 , 1 )= 1 ,
SLVL( 7 , 2 )= 1 ,
SLVL( 8 , 1 )= 1 ,
SLVL( 8 , 2 )= 1 ,
SLVL( 9 , 1 )= 1 ,
SLVL( 9 , 2 )= 1 ,
SLVL( 10 , 1 )= 1 ,
SLVL( 10 , 2 )= 1 ,
RF0( 1 , 1 )=9490,
RF0( 1 , 2 )= 0 ,
RF0( 2 , 1 )=9490,
RF0( 2 , 2 )= 0 ,
```

```
RF0( 3 , 1 )=9490,
RF0( 3 , 2 )= 0 ,
RF0( 4 , 1 )=9490,
RF0( 4 , 2 )= 0 ,
RF0( 5 , 1 )=9490,
RF0( 5 , 2 )= 0 ,
RF0( 6 , 1 )=9490,
RF0( 6 , 2 )= 0 ,
RF0( 7 , 1 )=9490,
RF0( 7 , 2 )= 0 ,
RF0( 8 , 1 )=9490,
RF0( 8 , 2 )= 0 ,
RF0( 9 , 1 )=9490,
RF0( 9 , 2 )= 0 ,
RF0( 10 , 1 )=9490,
RF0( 10 , 2 )= 0 ,
INGE1( 1 , 1 )=0,
INGE1( 1 , 2 )= 0 ,
INGE1( 2 , 1 )=0,
INGE1( 2 , 2 )= 0 ,
INGE1( 3 , 1 )=0,
INGE1( 3 , 2 )= 0 ,
INGE1( 4 , 1 )=0,
INGE1( 4 , 2 )= 0 ,
INGE1( 5 , 1 )=0,
INGE1( 5 , 2 )= 0 ,
INGE1( 6 , 1 )=0,
INGE1( 6 , 2 )= 0 ,
INGE1( 7 , 1 )=0,
INGE1( 7 , 2 )= 0 ,
INGE1( 8 , 1 )=0,
INGE1( 8 , 2 )= 0 ,
INGE1( 9 , 1 )=0,
INGE1( 9 , 2 )= 0 ,
INGE1( 10 , 1 )=0,
INGE1( 10 , 2 )= 0 ,
NREGIO0 =  1 , 1 , 1 , 1 , 1 , 1 , 1 , 1 , 1 , 1 ,
MTLS =  1 , 1 , 1 , 1 , 1 , 1 , 1 , 1 , 1 , 1 ,
NUCSNAM( 1 , 1 )= 'AM-241',
```

```
NUCSNAM( 2 , 1 )= 'CO-60',
NUCSNAM( 3 , 1 )= 'CS-137',
NUCSNAM( 4 , 1 )= 'EU-152',
NUCSNAM( 5 , 1 )= 'EU-154',
NUCSNAM( 6 , 1 )= 'H-3',
NUCSNAM( 7 , 1 )= 'PU-239',
NUCSNAM( 8 , 1 )= 'PB-210',
NUCSNAM( 8 , 2 )= 'PO-210',
NUCSNAM( 8 , 3 )= 'RA-226',
NUCSNAM( 9 , 1 )= 'SR-90',
NUCSNAM( 10 , 1 )= 'RA-228',
NUCSNAM( 10 , 2 )= 'TH-228',
NUCSNAM( 10 , 3 )= 'TH-232',
RNUCACT( 1 , 1 )= 4499.99994200629 ,
RNUCACT( 2 , 1 )= 225225.222322637 ,
RNUCACT( 3 , 1 )= 225225.222322637 ,
RNUCACT( 4 , 1 )= 225225.222322637 ,
RNUCACT( 5 , 1 )= 225225.222322637 ,
RNUCACT( 6 , 1 )= 225225.222322637 ,
RNUCACT( 7 , 1 )= 4499.99994200629 ,
RNUCACT( 8 , 1 )= 4499.99994200629 ,
RNUCACT( 8 , 2 )= 4499.99994200629 ,
RNUCACT( 8 , 3 )= 4499.99994200629 ,
RNUCACT( 9 , 1 )= 44999.9994200629 ,
RNUCACT( 10 , 1 )= 1639.6396185088 ,
RNUCACT( 10 , 2 )= 1639.6396185088 ,
RNUCACT( 10 , 3 )= 1639.6396185088 ,
DSOR( 1 , 1 )= 1 ,
DSOR( 1 , 2 )= 1 ,
DSOR( 1 , 3 )= 1 ,
DSOR( 1 , 4 )= 1 ,
DSOR( 1 , 5 )= 1 ,
DSOR( 1 , 6 )= 1 ,
DSOR( 1 , 7 )= 1 ,
DSOR( 1 , 8 )= 1 ,
DSOR( 1 , 9 )= 1 ,
DSOR( 1 , 10 )= 1 ,
DSTH( 1 , 1 )=0,
DSTH( 1 , 2 )=0,
```

```
DSTH( 1 , 3 )=0,
DSTH( 1 , 4 )=0,
DSTH( 1 , 5 )=0,
DSTH( 1 , 6 )=0,
DSTH( 1 , 7 )=0,
DSTH( 1 , 8 )=0,
DSTH( 1 , 9 )=0,
DSTH( 1 , 10 )=0,
DSDEN( 1 , 1 )=2.4,
DSDEN( 1 , 2 )=2.4,
DSDEN( 1 , 3 )=2.4,
DSDEN( 1 , 4 )=2.4,
DSDEN( 1 , 5 )=2.4,
DSDEN( 1 , 6 )=2.4,
DSDEN( 1 , 7 )=2.4,
DSDEN( 1 , 8 )=2.4,
DSDEN( 1 , 9 )=2.4,
DSDEN( 1 , 10 )=2.4,
MTLC( 1 , 1 )= 1 ,
MTLC( 1 , 2 )= 1 ,
MTLC( 1 , 3 )= 1 ,
MTLC( 1 , 4 )= 1 ,
MTLC( 1 , 5 )= 1 ,
MTLC( 1 , 6 )= 1 ,
MTLC( 1 , 7 )= 1 ,
MTLC( 1 , 8 )= 1 ,
MTLC( 1 , 9 )= 1 ,
MTLC( 1 , 10 )= 1 ,
H3VOLFRACT =  0.03 , 0.03 , 0.03 , 0.03 , 0.03 , 0.03 , 0.03 , 0.03 , 0.03 , 0.03 ,
H3POROSITY =  0.1 , 0.1 , 0.1 , 0.1 , 0.1 , 0.1 , 0.1 , 0.1 , 0.1 , 0.1 ,
HUMIDITY =  8 , 8 , 8 , 8 , 8 , 8 , 8 , 8 , 8 , 8 ,
H3THICK =  10 , 10 , 10 , 10 , 10 , 10 , 10 , 10 , 10 , 10 ,
DRYTHICK =  0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 ,
H3RMVF =  1 , 1 , 1 , 1 , 1 , 1 , 1 , 1 , 1 , 1 ,
WALL_DENSITY =  2.4 , 2.4 , 2.4 , 2.4 , 2.4 , 2.4 , 2.4 , 2.4 , 2.4 , 2.4 ,
SLW( 1 , 1 )=3.05,
SLW( 1 , 2 )=3.05,
SLW( 2 , 1 )=3.05,
SLW( 2 , 2 )=3.05,
```

```
SLW( 3 , 1 )=3.05,
SLW( 3 , 2 )=3.05,
SLW( 4 , 1 )=3.05,
SLW( 4 , 2 )=3.05,
SLW( 5 , 1 )=3.05,
SLW( 5 , 2 )=3.05,
SLW( 6 , 1 )=3.05,
SLW( 6 , 2 )=3.05,
SLW( 7 , 1 )=3.05,
SLW( 7 , 2 )=3.05,
SLW( 8 , 1 )=3.05,
SLW( 8 , 2 )=3.05,
SLW( 9 , 1 )=3.05,
SLW( 9 , 2 )=3.05,
SLW( 10 , 1 )=3.05,
SLW( 10 , 2 )=3.05,
POINT = 17 ,
LAMBDAT = 0.45, UD = 0.01, DKSUS = 0.0000005,
U_activity = 'dpm' ,
U_dose_unit = 'mrem' ,
PCLINE = '0' ,
&END
```