ANEXO 1

A1.1 Señalización de los elementos principales del archivo de entrada ".I" del programa de cómputo CPM-3.

ARCHIVO .I

```
*FN a=lv_comp2.dat
*FN n=cpm3ndl.bin
*FN g=cpm3gdl.bin
TTL NB4 Square Heterogeneous Lattice
!- Integration Parameters for NB4
NPA
  1/
  0.01/
  /
  /
!
BUR MODEBU=1/
0.0,0.7921/
!1.0,2.0,3.0,4.0,5.0,6.0,7.0/
!8.0,9.0,10.0,11.0,12.0,13.0,14.0,15.0/
! - Material Data
MAT
'CLAD'  'TC' 'TC' 'TC' 100.0, 0,0, 'GRAF1',100.0/
'CLADB'  'TC' 'TC' 'TC' 100.0, 0,0, 'GRAF3',100.0/
'CLADA'  'TC' 'TC' 'TC' 100.0, 0,0, 'GRAF2',100.0/
'FUGAD' 'TF' 'TF' 'TF' 100.0, 1,0, '36_URTH',100.0/
'MODGRAF''TGRAF''TGRAF' 'TGRAF'100.0, 0,0,'GRAF,100.0/
/
SYS PD=158.42 TF=293.6 TC=600. TM=293.6
SET TGRAF=600./
DOP ON
!
!- Geometry & Lattice Descriptions
! 'RPP','MODGRAF', 1,1,0.04581/
GEO:1
'PC',6,3*,0/
  'RPP','MODGRAF', 1,1,0.095/
  'RCC','CLADA', 1,1,0.0410/
  'RCC','CLADB', 1,1,0.0370/
  'RCC','CLADA', 1,1,0.03350/
  'RCC','CLAD', 1,1,0.0300/
  'RCC','FUGAD', 1,1,0.0150/
/
LAT   Pincell
+PC:1
  4*0./
/
!- Print Options
PRI
  3*, 1/
  20,2,3,1,2,0/
/
!
STA
```

Librerías del programa.

Implementación de quemado.

Determinación de los pasos de quemado

Tarjeta de material

Declaración de los materiales del combustible

Temperaturas implementadas

Declaración de la geometría de los componentes que integran el combustible.

A1.2 Señalización de los elementos principales del archivo de entrada ".S" del programa de cómputo CPM-3.

ARCHIVO .S

```
** C P M - 3 ** Summary File ** Version 1.00-1999.267
 ** Run Began on 29-Nov-2009 at 21:45:04

TTL NB4 Square Heterogeneous Lattice
 PD= 158.; TF= 294.; TC= 600.; TM= 294.; PR=   0.; VB=   0.; VM=   0.;
PM=   0.

 ***************************************
PW=Null    BU=       0.0000 GWd/MT

TheMethod of Characteristics Calculation Converged,
Final K-Infinite= 1.196448

 FMC: K-inf= 1.196463; K-eff= 1.000000; M-Sq= 390.92; B-Sq= 5.02564E-
04

 >>>>> Processing Time For This Eigenvalue Calculation =     16.1
Seconds  (     16.2)

 ***************************************
 PW=Null    BU=       0.7921 GWd/MT

 The Method of Characteristics Calculation Converged, Final K-
Infinite= 1.129964

 FMC: K-inf= 1.129964; K-eff= 1.000000; M-Sq= 374.29; B-Sq= 3.47233E-
04

 >>>>> Processing Time For This Eigenvalue Calculation =     14.1
Seconds  (     30.2)


**********************************************************************
**
 ** C P M - 3 ** Summary File ** Version 1.00-1999.267
 ** Run Began on 29-Nov-2009 at 21:45:04


**********************************************************************
**
 >>>>> END-OF-JOB

 Job Began on 29-Nov-2009 at 21:45:04
 Job Ended on 29-Nov-2009 at 21:46:52
 Execution Time =   46.4 Seconds
```

Cabeceras

Cálculo de criticidad para el primer paso de quemado.

Valor de la criticidad en este paso de quemado.

Tiempo de ejecución del paso de quemado.

Cálculo de criticidad para el siguiente paso de quemado

Valor de la criticidad en este paso de quemado.

Tiempo de ejecución del paso de quemado.

Tiempo total de ejecución del quemado.

A1.3 Señalización de los elementos principales del archivo de entrada ".L" del programa de cómputo CPM-3.

ARCHIVO .L

Cabeceras

```
1** EPRI Energy Conversion Division ** Execution Date= 29-Nov-2009
Time= 21:45:04                                      ** Page     1 **
 ** C P M - 3 ** A Nuclear Fuel Lattice Physics Burnup Code ** Version
1.00-1999.267                                                    **

 Program Name= CPM3   Version= 1.00   Creation Date= 1999.267

 Execution Date  . . . . . . . . . . = 29-Nov-2009 at 21:45:04
 Calculation Number  . . . . . . . . = Unknown
 Reactor Unit Identifier . . . . . . = Unknown
 Lattice Identifier  . . . . . . . . = Unknown
 User Identifier . . . . . . . . . . = Unknown


 User Input Filename . . . . . . . . = inicioir.i
 Output List Filename  . . . . . . . = inicioir.l
 Output Summary Filename . . . . . . = inicioir.s
 Compositions Data Filename  . . . . = lv_comp2.dat
 Geometries Data Filename  . . . . . = 0
 Output Punch Filename . . . . . . . = 0
 Gamma Data File Filename  . . . . . = cpm3gdl.bin
   Authenticated: Version 97001-1999.188;  18 Groups; 301 Nuclides
 Neutron Data File Filename  . . . . = cpm3ndl.bin
   Authenticated: Version 97001-1999.188;  97 Groups; 301 Nuclides
 Restart Filename  . . . . . . . . . = 0
 New Restart Filename  . . . . . . . = 0
1** EPRI Energy Conversion Division ** Execution Date= 29-Nov-2009
Time= 21:45:04                                      ** Page     2 **
 ** C P M - 3 ** A Nuclear Fuel Lattice Physics Burnup Code ** Version
1.00-1999.267                                                    **

          ************************************  Line Image Listing
of the INPUT File  ************************************
                  1         2         3         4         5         6
7         8         9         0         1         2

12345678901234567890123456789012345678901234567890123456789012345678901234567890
12345678901234567890123456789012345678901234567890
```

Código del archivo de entrada

```
1: *FN a=lv_comp2.dat
2: *FN n=cpm3ndl.bin
3: *FN g=cpm3gdl.bin
4: TTL NB4 Square Heterogeneous Lattice
5: !- Integration Parameters for NB4
6: NPA
7:   1/
```

```
        8:   0.01/
        9:   /
       10:   /
       11: !
       12: BUR MODEBU=1/
       13:
0.0,0.7921,1.5842,2.3763,3.1684,3.9605,4.7526,5.5447,6.3368,7.1289,7.9
21,8.7131,9.5052,10.2973/
       14: !1.0,2.0,3.0,4.0,5.0,6.0,7.0/
       15: !8.0,9.0,10.0,11.0,12.0,13.0,14.0,15.0/
       16: ! - Material Data
       17: MAT
       18: 'CLAD'  'TC' 'TC' 'TC' 100.0, 0,0, 'GRAF1',100.0/
       19: 'CLADB'  'TC' 'TC' 'TC' 100.0, 0,0, 'GRAF3',100.0/
       20: 'CLADA'  'TC' 'TC' 'TC' 100.0, 0,0, 'GRAF2',100.0/
       21: 'FUGAD' 'TF' 'TF' 'TF' 100.0, 1,0, '36_URTH',100.0/
       22: 'MODGRAF' 'TGRAF' 'TGRAF' 'TGRAF' 100.0, 0,0, 'GRAF',100.0/
       23: /
       24: SYS PD=158.42 TF=293.6 TC=600. TM=293.6
       25: SET TGRAF=600./
       26: DOP ON
       27: !
       28: !- Geometry & Lattice Descriptions
       29: ! 'RPP','MODGRAF', 1,1,0.04581/
       30: GEO:1
       31: 'PC',6,3*,0/
       32:   'RPP','MODGRAF', 1,1,0.095/
       33:   'RCC','CLADA', 1,1,0.0410/
       34:   'RCC','CLADB', 1,1,0.0370/
       35:   'RCC','CLADA', 1,1,0.03350/
       36:   'RCC','CLAD', 1,1,0.0300/
       37:   'RCC','FUGAD', 1,1,0.0150/
       38: /
       39: LAT   Pincell
       40: +PC:1
       41:   4*0./
       42: /
       43: !- Print Options
       44: PRI
       45:   3*, 1/
       46:   20,2,3,1,2,0/
       47: /
       48: !
       49: STA
       50:

                  1         2         3         4         5         6
7         8         9         0         1         2

12345678901234567890123456789012345678901234567890123456789012345678901
12345678901234567890123456789012345678901234567890
          ************************************  End-of-File Reached -
-     50 Lines Listed  ************************************
```

Ejecución del programa.

```
 >>>>> Entering Module AGDATA
1** EPRI Energy Conversion Division ** Execution Date= 29-Nov-2009
Time= 21:45:04                                      ** Page     3 **
 ** C P M - 3 ** A Nuclear Fuel Lattice Physics Burnup Code ** Version
1.00-1999.267                                                  **


 ** READ INPUT DATA BLOCKS

**********************************************************************
**
 Reading Block *TTL*  TTL NB4 Square Heterogeneous Lattice
 Reading Block *NPA*  NPA
 Reading Block *BUR*  BUR MODEBU=1/
 Reading Block *MAT*  MAT
 Reading Block *SYS*  SYS PD=158.42 TF=293.6 TC=600. TM=293.6
 Reading Block *SET*  SET TGRAF=600./
 Reading Block *DOP*  DOP ON
 Reading Block *GEO*  GEO:1
 Reading Block *LAT*  LAT   Pincell
 Reading Block *PRI*  PRI
 Reading Block *STA*  STA


 *LAT*  Lattice Geometry Description
 **********************************

 +'PC:1'  (Physical Component     1)   'PC'
    X=  0.000000E+00; Y=  0.000000E+00; Z=  0.000000E+00; R=   0.00

 *MAT*  Material Descriptions
 ***************************

 'CLAD:1'
   Theoretical Density= 100.00%   Material Type= Non-burnable, Form=
Solid
   Temperatures: Volume Average ('TC')=  600.00K
     Cross Section Average ('TC')=  600.00K; Doppler ('TC')=  600.00K
   List of Simple Compositions:
     'GRAF1'=100.00

 'CLADB:1'
   Theoretical Density= 100.00%   Material Type= Non-burnable, Form=
Solid
   Temperatures: Volume Average ('TC')=  600.00K
     Cross Section Average ('TC')=  600.00K; Doppler ('TC')=  600.00K
   List of Simple Compositions:
     'GRAF3'=100.00

 'CLADA:1'
   Theoretical Density= 100.00%   Material Type= Non-burnable, Form=
Solid
   Temperatures: Volume Average ('TC')=  600.00K
     Cross Section Average ('TC')=  600.00K; Doppler ('TC')=  600.00K
   List of Simple Compositions:
     'GRAF2'=100.00
```

```
 'FUGAD:1'
   Theoretical Density= 100.00%   Material Type= Burnable (RES=y,
DEP=y), Form= Solid
   Temperatures: Volume Average ('TF')=  293.60K
     Cross Section Average ('TF')=  293.60K; Doppler ('TF')=  293.60K
   List of Simple Compositions:
     '36_URTH'=100.00

 'MODGRAF:1'
   Theoretical Density= 100.00%   Material Type= Non-burnable, Form=
Solid
   Temperatures: Volume Average ('TGRAF')=  600.00K
     Cross Section Average ('TGRAF')=  600.00K; Doppler ('TGRAF')=
600.00K
   List of Simple Compositions:
     'GRAF'=100.00
1** EPRI Energy Conversion Division ** Execution Date= 29-Nov-2009
Time= 21:45:04                                      ** Page     5 **
 ** C P M - 3 ** A Nuclear Fuel Lattice Physics Burnup Code ** Version
1.00-1999.267                                                 **
 TTL NB4 Square Heterogeneous Lattice
** PW='Null'  BU=    0.0000 GWd/MT
 PD= 158.; TF= 294.; TC= 600.; TM= 294.; PR=   0.; VB=   0.; VM=   0.;
PM=   0.
```

Cálculo del quemado para el primer paso.

```
 ** BURNUP CALCULATION

************************************************************************
************************************ Begin Burnup Step    1
 ** Calculate Initial Number Densities
0.0000 GWd/MT

 Initial Heavy Metal Mass . . . . . =   6.4537E-03 Grams

 Previous Burnup Step Exposure  . . . . . =       0.0000 GWd/MT
 Average Exposure for This Burnup Step  . =       0.0000 GWd/MT
 Delta Burnup From the Previous Exposure  =       0.0000 GWd/MT

 PARTS MATERIAL DATA (By Physical Region Number)
 ~~~~~~~~~~~~~~~~~~~
 Volume ID=  {+|-}Part_Name:Instance_Number.Volume_Number

Avg Temperatures (K)
 Region   Volume ID                          Volume (cm3)  Density
(g/cm3)   Vol    Xsec     Dop    Material ID
      1  +PC:1.1                            3.081898E-02
1.740000E+00    600.0   600.0   600.0  'MODGRAF:1'
          Number of Partial Chains =   1
          * Partial Chain   0; Number of Nuclides =   1  (   1 Non-
Zero Values Are Listed)
          Nuclide Weight Percents (%):
               6012=1.000000E+02
          Nuclide Number Densities (atoms/b-cm):
               6012=8.731926E-02
```

```
Avg Temperatures (K)
 Region   Volume ID                          Volume (cm3)  Density
(g/cm3)   Vol    Xsec     Dop    Material ID
      2  +PC:1.2                            9.801769E-04
1.850000E+00    600.0   600.0   600.0  'CLADA:1'
          Number of Partial Chains =   1
          * Partial Chain   0; Number of Nuclides =   1  (   1 Non-
Zero Values Are Listed)
          Nuclide Weight Percents (%):
               6012=1.000000E+02
          Nuclide Number Densities (atoms/b-cm):
               6012=9.283945E-02
```

Cálculo del quemado para el siguiente paso.

```
 ** BURNUP CALCULATION

**********************************************************************
************************************ Begin Burnup Step    2
 ** Calculate Predictor Number Densities
0.7921 GWd/MT

 Previous Burnup Step Exposure  . . . . . =       0.0000 GWd/MT
 Average Exposure for This Burnup Step  . =       0.7921 GWd/MT
 Delta Burnup From the Previous Exposure  =       0.7921 GWd/MT

 Delta Timestep . . . . . . . . . . . . . =     120.0000 Hours (
0.7921 GWd/MT)
 Total Lifetime . . . . . . . . . . . . . =     120.0000 Hours (
0.7921 GWd/MT)
 Accumulated Time Since LTIME=0 . . . . . =     120.0000 Hours (
0.7921 GWd/MT)
 Power Normalization Factor . . . . . . . = 7.749975E+10

 >>>>> Processing Time in Module AGBURN:      0.0 Seconds

 >>>>> Entering Module AGXSEC

 ** RESONANCE GROUP CROSS SECTION CALCULATION

**********************************************************************
**

 Numerical Integration Parameters
   Distance Between Parallel Lines . . =  0.0100
   Mean-Free-Paths Tracking Distance . =  6.0000
   Number of Integration Angles  . . . =      12
     Integration Angles in Degrees . . =     0.0    15.0    30.0
45.0    60.0    75.0
                                          90.0   105.0   120.0
135.0   150.0   165.0

 Ray-Tracing Calculation
   ** Reusing Track File From Burnup Step    0.0000 GWd/MT
   Number of Rays Through Geometry . . =     296
   Maximum Number of Regions Per Ray . =    1970
```

```
   Ray-Tracing Time  . . . . . =     0.0 Seconds

 Number of Resonance Calculations  . . =     1
 Processing Time =     0.2 Seconds
1** EPRI Energy Conversion Division ** Execution Date= 29-Nov-2009
Time= 21:45:04                                      ** Page    15 **
 ** C P M - 3 ** A Nuclear Fuel Lattice Physics Burnup Code ** Version
1.00-1999.267                                                **
 TTL NB4 Square Heterogeneous Lattice
** PW='Null'  BU=    0.7921 GWd/MT
 PD= 158.; TF= 294.; TC= 600.; TM= 294.; PR=   0.; VB=   0.; VM=   0.;
PM=   0.
```

Porcentaje en peso de los isótopos generados del quemado del combustible.

```
** PW='Null'  BU=    0.7921 GWd/MT
 PD= 158.; TF= 294.; TC= 600.; TM= 294.; PR=   0.; VB=   0.; VM=   0.;
PM=   0.

          Nuclide Weight Percents (%):
92234=8.346854E-07    92235=3.174920E+00    92236=1.555569E-02
92237=4.037696E-05    92238=8.618434E+01    92239=2.965953E-04
93237=9.210282E-06    93238=2.698563E-08    93239=3.287123E-02
94238=1.270786E-08    94239=2.883171E-02    94240=3.325698E-04
94241=7.460255E-06    94242=3.203642E-08    94243=1.600121E-11
95241=1.000482E-09    95242=4.307334E-12    95243=4.396337E-11
95342=9.608171E-13    96242=2.883778E-12    96244=1.154694E-13
30072=2.911128E-09    31072=8.091008E-10    32072=2.545129E-09
32073=2.395344E-08    32074=7.928537E-08    32076=7.336550E-07
32077=9.266462E-08    33075=2.504954E-07    33077=7.726130E-07
34077=1.047216E-06    34078=5.111468E-06    34079=1.106152E-05
34080=3.210679E-05    34082=8.314966E-05    35081=5.148216E-05
35082=1.569377E-08    36082=1.878939E-08    36083=1.383860E-04
36084=2.636343E-04    36085=7.588173E-05    36086=5.267422E-04
36087=1.061139E-05    36088=3.326271E-05    36089=7.921175E-07
36185=1.842721E-05    37085=2.548087E-04    37086=1.291275E-08
37087=6.834467E-04    37088=3.496824E-06    37089=3.983904E-06
38086=8.468444E-10    38088=9.426504E-04    38089=1.263070E-03
38090=1.619601E-03    38091=1.886924E-04    38092=5.562611E-05
39089=4.367408E-05    39090=1.810750E-07    39091=1.427269E-03
39092=7.353132E-05    39093=2.264270E-04    40090=8.657857E-08
40091=3.839866E-05    40092=1.600223E-03    40093=1.618707E-03
40094=1.901720E-03    40095=1.882540E-03    40096=1.908907E-03
40097=3.678850E-04    41095=4.931014E-05    41097=2.617854E-05
41195=4.251288E-07    42095=1.650842E-06    42096=1.705815E-07
42097=1.432406E-03    42098=1.784931E-03    42099=1.081217E-03
42100=1.981250E-03    43099=7.376116E-04    43199=8.303644E-05
44100=9.276908E-07    44101=1.647566E-03    44102=1.392106E-03
44103=9.602062E-04    44104=6.375376E-04    44105=1.826241E-05
44106=1.514188E-04    45103=4.277395E-05    45105=1.137648E-04
46104=2.174320E-07    46105=1.769702E-04    46106=3.411721E-05
46107=6.260116E-05    46108=2.620466E-05    46109=2.517168E-06
46110=1.096550E-05    46112=1.266612E-06    47111=5.636889E-06
```

```
47609=1.295968E-05    47710=4.301694E-09    48610=8.194663E-08
48611=1.461162E-06    48612=3.821342E-06    48613=2.303222E-06
48614=7.516452E-06    48615=2.210760E-06    48616=5.047950E-06
48715=3.642638E-07    49615=2.133335E-06    50121=1.575466E-06
50122=6.139316E-06    50123=3.342432E-07    50124=1.068916E-05
50125=5.481723E-06    50126=2.269422E-05    50221=2.839799E-07
50616=2.988931E-08    50617=4.890209E-06    50618=4.404481E-06
50619=4.987066E-06    50620=4.922021E-06    51121=3.499126E-06
51122=2.267506E-09    51123=5.930292E-06    51124=8.033440E-09
51125=8.186699E-06    51126=3.070183E-07    51127=4.201557E-05
51128=1.012221E-06    51129=1.169884E-05    52122=9.325590E-10
52124=4.713834E-10    52125=1.168482E-08    52126=6.258934E-07
52127=3.279026E-06    52128=1.453085E-04    52129=2.650702E-06
52130=7.424559E-04    52132=1.101814E-03    52134=2.454890E-05
52225=1.784298E-09    52227=3.583860E-06    52229=3.377159E-05
52231=5.792089E-05    53127=1.483727E-05    53129=1.770222E-04
53130=2.505431E-08    53131=9.536763E-04    53132=3.212519E-05
53133=6.879779E-04    53134=3.475010E-05    53135=2.122951E-04
54128=1.013849E-08    54130=1.949536E-07    54131=2.142926E-04
54132=6.652571E-04    54133=1.601905E-03    54134=3.264098E-03
54135=2.329065E-05    54136=5.104625E-03    54137=2.026098E-06
54138=7.719746E-06    54233=3.470614E-05    54235=5.148537E-10
54335=1.585809E-06    55133=4.710467E-04    55134=6.129702E-07
55135=1.951191E-04    55136=2.416940E-06    55137=2.665009E-03
55138=1.877649E-05    56134=6.421297E-10    56136=3.362617E-07
56137=5.200129E-07    56138=2.903797E-03    56139=4.663588E-05
56140=2.392619E-03    56141=9.461849E-06    56142=5.487508E-06
57139=2.750463E-03    57140=1.881821E-04    57141=1.223063E-04
57142=4.824404E-05    58140=1.534707E-04    58141=2.334855E-03
58142=2.549100E-03    58143=9.727652E-04    58144=2.465329E-03
59141=1.204436E-04    59142=1.125756E-08    59143=1.532875E-03
59145=1.287032E-04    60142=1.346204E-08    60143=1.569622E-04
60144=1.885782E-05    60145=1.658519E-03    60146=1.379466E-03
60147=8.837794E-04    60148=7.911082E-04    60150=3.126439E-04
61147=1.448249E-04    61148=4.811878E-07    61149=2.523160E-04
61151=6.456204E-05    61248=3.971527E-07    62147=1.793569E-07
62148=9.221391E-08    62149=9.509511E-05    62150=1.733630E-04
62151=1.174262E-04    62152=1.487359E-04    62153=3.742281E-05
62154=3.753216E-05    62249=5.520864E-08    63151=4.693544E-09
63153=4.187439E-05    63154=3.576490E-07    63155=1.350400E-05
63156=1.012927E-05    63157=6.328107E-07    64254=2.135701E-10
64255=2.829862E-08    64256=1.088487E-06    64257=6.395218E-07
64258=4.100988E-06    64259=1.385297E-07    64260=2.163731E-07
65159=4.873531E-07    65160=1.156101E-09    65161=5.416655E-08
66160=1.648844E-11    66161=1.458029E-08    66162=1.888360E-08
8016=1.048900E+01
```

Densidad atómica isótopos generados del quemado del combustible.

```
          Nuclide Number Densities (atoms/b-cm):
92234=2.190848E-10    92235=8.297813E-04    92236=4.048307E-06
92237=1.046345E-08    92238=2.224021E-02    92239=7.623328E-08
93237=2.386803E-09    93238=6.963716E-12    93239=8.446970E-06
94238=3.277080E-12    94239=7.408961E-06    94240=8.510477E-08
94241=1.901206E-09    94242=8.130257E-12    94243=4.044028E-15
95241=2.549591E-13    95242=1.093113E-15    95243=1.111108E-14
95342=2.438368E-16    96242=7.318504E-16    96244=2.906339E-17
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30072=2.486272E-12 31072=6.910237E-13 32072=2.173833E-12
32073=2.017804E-11 32074=6.588740E-11 32076=5.936167E-10
32077=7.400023E-11 33075=2.053861E-10 33077=6.170175E-10
34077=8.363270E-10 34078=4.029860E-09 34079=8.610220E-09
34080=2.467964E-08 34082=6.235430E-08 35081=3.908401E-08
35082=1.176881E-11 36082=1.409081E-11 36083=1.025280E-07
36084=1.930009E-07 36085=5.489639E-08 36086=3.766428E-07
36087=7.492582E-09 36088=2.321953E-08 36089=5.467365E-10
36185=1.331739E-08 37085=1.843420E-07 37086=9.233097E-12
37087=4.830792E-07 37088=2.441010E-09 37089=2.749776E-09
38086=6.055386E-13 38088=6.587374E-07 38089=8.727051E-07
38090=1.106596E-06 38091=1.273772E-07 38092=3.714235E-08
39089=3.017675E-08 39090=1.237208E-10 39091=9.644626E-07
39092=4.909791E-08 39093=1.495628E-07 40090=5.915729E-11
40091=2.594877E-08 40092=1.069637E-06 40093=1.070289E-06
40094=1.244076E-06 40095=1.218484E-06 40096=1.222708E-06
40097=2.329801E-07 41095=3.191666E-08 41097=1.659449E-08
41195=2.751704E-10 42095=1.068540E-09 42096=1.092624E-10
42097=9.080160E-07 42098=1.119935E-06 42099=6.715229E-07
42100=1.218203E-06 43099=4.576874E-07 43199=5.152405E-08
44100=5.704240E-10 44101=1.003009E-06 44102=8.391848E-07
44103=5.731947E-07 44104=3.769166E-07 44105=1.069368E-08
44106=8.782747E-08 45103=2.553414E-08 45105=6.661705E-08
46104=1.285498E-10 46105=1.036291E-07 46106=1.978976E-08
46107=3.597173E-08 46108=1.491831E-08 46109=1.419839E-09
46110=6.128990E-09 46112=6.952867E-10 47111=3.122223E-09
47609=7.310159E-09 47710=2.404343E-12 48610=4.580359E-11
48611=8.093321E-10 48612=2.097739E-09 48613=1.253201E-09
48614=4.053725E-09 48615=1.181890E-09 48616=2.675423E-09
48715=1.947383E-10 49615=1.140488E-09 50121=8.004718E-10
50122=3.093736E-09 50123=1.670585E-10 50124=5.299461E-09
50125=2.695909E-09 50126=1.107240E-08 50221=1.442861E-10
50616=1.584181E-11 50617=2.569681E-09 50618=2.294841E-09
50619=2.576494E-09 50620=2.521712E-09 51121=1.777864E-09
51122=1.142628E-12 51123=2.964075E-09 51124=3.982779E-12
51125=4.026312E-09 51126=1.497927E-10 51127=2.033778E-08
51128=4.861657E-10 51129=5.574906E-09 52122=4.699370E-13
52124=2.337058E-13 52125=5.746776E-12 52126=3.053801E-10
52127=1.587245E-09 52128=6.978831E-08 52129=1.263169E-09
52130=3.510913E-07 52132=5.131154E-07 52134=1.126140E-08
52225=8.775454E-13 52227=1.734803E-09 52229=1.609356E-08
52231=2.717975E-08 53127=7.182185E-09 53129=8.435973E-08
53130=1.184755E-11 53131=4.475257E-07 53132=1.496075E-08
53133=3.179818E-07 53134=1.594124E-08 53135=9.666615E-08
54128=4.869322E-12 54130=9.219076E-11 54131=1.005605E-07
54132=3.098201E-07 54133=7.404087E-07 54134=1.497421E-06
54135=1.060537E-08 54136=2.307272E-06 54137=9.090730E-10
54138=3.438533E-09 54233=1.604136E-08 54235=2.344380E-13
54335=7.220963E-10 55133=2.177202E-07 55134=2.811988E-10
55135=8.884790E-08 55136=1.092448E-09 55137=1.195780E-06
55138=8.363610E-09 56134=2.945823E-13 56136=1.519925E-10
56137=2.333313E-10 56138=1.293545E-06 56139=2.062381E-08
56140=1.050511E-06 56141=4.124763E-09 56142=2.375313E-09
57139=1.216361E-06 57140=8.262439E-08 57141=5.331905E-08
57142=2.088319E-08 58140=6.738574E-08 58141=1.017891E-06
58142=1.103456E-06 58143=4.181342E-07 58144=1.052331E-06
59141=5.250832E-08 59142=4.873148E-12 59143=6.589016E-07
59145=5.455771E-08 60142=5.827501E-12 60143=6.747018E-08

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60144=8.049672E-09    60145=7.030592E-07    60146=5.807565E-07
60147=3.695328E-07    60148=3.285468E-07    60150=1.281050E-07
61147=6.055574E-08    61148=1.998356E-10    61149=1.040819E-07
61151=2.627874E-08    61248=1.649361E-10    62147=7.499462E-11
62148=3.829690E-11    62149=3.922758E-08    62150=7.103696E-08
62151=4.779671E-08    62152=6.014219E-08    62153=1.503301E-08
62154=1.497892E-08    62249=2.277406E-11    63151=1.910443E-12
63153=1.682123E-08    63154=1.427362E-10    63155=5.354578E-09
63156=3.990640E-09    63157=2.477194E-10    64254=8.523586E-14
64255=1.122097E-11    64256=4.288397E-10    64257=2.503493E-10
64258=1.595224E-09    64259=5.354580E-11    64260=8.311135E-11
65159=1.883776E-10    65160=4.468643E-13    65161=2.067661E-11
66160=6.333476E-15    66161=5.565632E-12    66162=7.163807E-12
8016=4.028284E-02


 >>>>> Entering Module AGEDIT

 Power Density  . . . . . =      158.4200 W/g-HM
 Power Normalization Factor . =  7.728947E+10
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