1215633

0600X-CA-N0060/12-AMRP-0090

618-10 BURIAL GROUND RAD INVENTORY

FOR ADMINISTRATIVE RECORD-

0600X-CA-N0060

SECTION

2 OF 4

PR144M	6.840E-06	5.457E-06	4.368E-06	3.496E-06	2.798E-06	7.937E-08	9.240E-10	1.252E-13	1.697E-17	2.300E-21	6.273E-26
ND144	5.896E+00	1.234E+01	1.750E+01	2.164E+01	2.494E+01	3.782E+01	3.819E+01	3.820E+01	3.820E+01	3.820E+01	3.820E+01
BA145	1.476E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA145	1.252E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE145	8.283E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR145	9.909E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND145	2.732E+01	2.742E+01	2.742E+01	2.742E+01	2.742E+01	2.742E+01	2.742E+01	2.742E+01	2.742E+01	2.742E+01	2.742E+01
BA146	1.939E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA146	2.318E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE146	3.076E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR146	5.258E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND146	2.191E+01	2.192E+01	2.192E+01	2.192E+01	2.192E+01	2.192E+01	2.192E+01	2.192E+01	2.192E+01	2.192E+01	2.192E+01

OUTPUT UNIT = 6 PAGE 68

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:17

* 1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
PM146	2.665E-05	2.582E-05	2.502E-05	2.425E-05	2.349E-05	1.419E-05	7.557E-06	2.143E-06	6.077E-07	1.723E-07	3.895E-08
SM146	1.910E-06	2.216E-06	2.512E-06	2.799E-06	3.078E-06	6.520E-06	8.974E-06	1.098E-05	1.155E-05	1.171E-05	1.176E-05
BA147	4.528E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA147	1.355E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE147	1.927E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR147	2.031E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND147	2.587E+00	8.471E-03	2.771E-05	9.061E-08	2.966E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM147	1.229E+01	1.395E+01	1.306E+01	1.223E+01	1.145E+01	3.979E+00	1.062E+00	7.561E-02	5.384E-03	3.834E-04	1.697E-05
SM147	4.965E-01	1.419E+00	2.311E+00	3.146E+00	3.928E+00	1.140E+01	1.431E+01	1.530E+01	1.537E+01	1.538E+01	1.538E+01
BA148	2.072E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA148	6.525E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE148	8.445E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR148	2.997E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND148	1.289E+01	1.289E+01	1.289E+01	1.289E+01	1.289E+01	1.289E+01	1.289E+01	1.289E+01	1.289E+01	1.289E+01	1.289E+01
PM148	1.247E-01	1.697E-04	3.645E-05	7.872E-06	1.700E-06	3.806E-17	1.854E-30	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM148M	1.067E-01	2.304E-02	4.976E-03	1.075E-03	2.321E-04	5.196E-15	2.531E-28	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM148	8.069E-01	1.015E+00	1.033E+00	1.037E+00	1.038E+00	1.038E+00	1.038E+00	1.038E+00	1.038E+00	1.038E+00	1.038E+00
LA149	3.471E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE149	1.061E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR149	2.008E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND149	9.233E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PM149	2.912E-01	1.124E-13	4.197E-26	1.567E-38	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM149	5.768E-01	8.774E-01	8.774E-01	8.774E-01	8.774E-01	8.774E-01	8.774E-01	8.774E-01	8.774E-01	8.774E-01	8.774E-01
CE150	4.591E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR150	1.112E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND150	5.574E+00	5.574E+00	5.574E+00	5.574E+00	5.574E+00	5.574E+00	5.574E+00	5.574E+00	5.574E+00	5.574E+00	5.574E+00
PM150	1.031E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM150	7.918E+00	7.918E+00	7.918E+00	7.918E+00	7.918E+00	7.918E+00	7.918E+00	7.918E+00	7.918E+00	7.918E+00	7.918E+00
CE151	1.346E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR151	1.923E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND151	5.036E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM151	6.935E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM151	2.263E+00	2.328E+00	2.324E+00	2.319E+00	2.315E+00	2.245E+00	2.160E+00	2.000E+00	1.852E+00	1.714E+00	1.565E+00
EU151	2.058E-03	6.546E-03	1.102E-02	1.550E-02	1.996E-02	9.019E-02	1.750E-01	3.351E-01	4.834E-01	6.206E-01	7.695E-01
CE152	4.255E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR152	1.730E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND152	3.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM152	1.140E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM152M	3.355E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM152	3.895E+00	3.895E+00	3.895E+00	3.895E+00	3.895E+00	3.896E+00	3.896E+00	3.896E+00	3.896E+00	3.896E+00	3.896E+00
EU152	9.892E-04	9.767E-04	9.643E-04	9.521E-04	9.400E-04	7.667E-04	5.942E-04	3.570E-04	2.144E-04	1.288E-04	7.059E-05
EU152M	5.210E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD152	2.893E-04	2.965E-04	3.000E-04	3.034E-04	3.067E-04	3.550E-04	4.031E-04	4.692E-04	5.089E-04	5.328E-04	5.490E-04
PR153	5.117E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND153	1.784E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM153	9.598E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM153	6.572E-02	4.901E-16	3.648E-30	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU153	1.701E+00	1.767E+00	1.767E+00	1.767E+00	1.767E+00	1.767E+00	1.767E+00	1.767E+00	1.767E+00	1.767E+00	1.767E+00
GD153	2.006E-05	1.544E-05	1.189E-05	9.154E-06	7.047E-06	1.073E-07	5.744E-10	1.645E-14	4.709E-19	1.348E-23	5.872E-29
ND154	4.847E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM154	2.456E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 69

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:17

* 1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
PM154M	2.454E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM154	8.773E-01	8.773E-01	8.773E-01	8.773E-01	8.773E-01	8.773E-01	8.773E-01	8.773E-01	8.773E-01	8.773E-01	8.773E-01
EU154	1.066E-01	1.045E-01	1.024E-01	1.003E-01	9.835E-02	7.124E-02	4.761E-02	2.127E-02	9.499E-03	4.243E-03	1.639E-03

GD154	8.760E-04	3.002E-03	5.086E-03	7.129E-03	9.131E-03	3.623E-02	5.986E-02	8.621E-02	9.798E-02	1.032E-01	1.058E-01
ND155	1.183E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM155	3.160E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM155	1.276E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU155	1.791E-01	1.731E-01	1.671E-01	1.614E-01	1.559E-01	8.911E-02	4.430E-02	1.095E-02	2.706E-03	6.689E-04	1.286E-04
GD155	1.119E-03	7.274E-03	1.322E-02	1.896E-02	2.450E-02	9.124E-02	1.361E-01	1.694E-01	1.776E-01	1.797E-01	1.802E-01
ND156	8.530E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM156	5.547E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM156	1.893E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU156	1.499E-01	2.351E-03	3.640E-05	5.635E-07	8.723E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD156	4.072E-01	5.567E-01	5.590E-01	5.590E-01	5.590E-01	5.590E-01	5.590E-01	5.590E-01	5.590E-01	5.590E-01	5.590E-01
PM157	1.314E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM157	1.653E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU157	2.074E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD157	9.377E-03	1.147E-02	1.147E-02	1.147E-02	1.147E-02	1.147E-02	1.147E-02	1.147E-02	1.147E-02	1.147E-02	1.147E-02
SM158	4.618E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU158	5.161E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD158	2.457E-01	2.458E-01	2.458E-01	2.458E-01	2.458E-01	2.458E-01	2.458E-01	2.458E-01	2.458E-01	2.458E-01	2.458E-01
SM159	1.248E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU159	1.018E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD159	6.411E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB159	4.021E-02	4.086E-02	4.086E-02	4.086E-02	4.086E-02	4.086E-02	4.086E-02	4.086E-02	4.086E-02	4.086E-02	4.086E-02
SM160	1.045E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU160	2.263E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD160	1.953E-02	1.953E-02	1.953E-02	1.953E-02	1.953E-02	1.953E-02	1.953E-02	1.953E-02	1.953E-02	1.953E-02	1.953E-02
TB160	2.922E-04	1.218E-04	5.074E-05	2.114E-05	8.810E-06	7.281E-12	1.814E-19	1.127E-34	0.000E+00	0.000E+00	0.000E+00
DY160	1.006E-04	2.710E-04	3.421E-04	3.717E-04	3.840E-04	3.928E-04	3.928E-04	3.928E-04	3.928E-04	3.928E-04	3.928E-04
GD161	4.966E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB161	1.266E-03	1.350E-07	1.440E-11	1.535E-15	1.637E-19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY161	7.937E-03	9.203E-03	9.204E-03	9.204E-03	9.204E-03	9.204E-03	9.204E-03	9.204E-03	9.204E-03	9.204E-03	9.204E-03
EU162	1.889E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD162	7.279E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB162	5.380E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB162M	2.874E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY162	5.518E-03	5.520E-03	5.520E-03	5.520E-03	5.520E-03	5.520E-03	5.520E-03	5.520E-03	5.520E-03	5.520E-03	5.520E-03
TB163	6.526E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY163	2.710E-03	2.711E-03	2.711E-03	2.711E-03	2.711E-03	2.711E-03	2.711E-03	2.711E-03	2.711E-03	2.711E-03	2.711E-03
GD164	2.999E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY164	1.124E-03	1.124E-03	1.124E-03	1.124E-03	1.124E-03	1.124E-03	1.124E-03	1.124E-03	1.124E-03	1.124E-03	1.124E-03
DY165	1.960E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HO165	9.208E-04	9.228E-04	9.228E-04	9.228E-04	9.228E-04	9.228E-04	9.228E-04	9.228E-04	9.228E-04	9.228E-04	9.228E-04
DY166	2.365E-05	1.902E-13	1.530E-21	1.231E-29	9.898E-38	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HO166	8.360E-06	9.320E-14	7.496E-22	6.029E-30	4.850E-38	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

HO166M	1.000E-06	9.999E-07	9.997E-07	9.996E-07	9.994E-07	9.971E-07	9.942E-07	9.885E-07	9.828E-07	9.772E-07	9.705E-07
ER166	3.742E-04	4.062E-04	4.062E-04	4.062E-04	4.062E-04	4.062E-04	4.062E-04	4.062E-04	4.062E-04	4.062E-04	4.062E-04
ER167	1.741E-04	1.741E-04	1.741E-04	1.741E-04	1.741E-04	1.741E-04	1.741E-04	1.741E-04	1.741E-04	1.741E-04	1.741E-04
ER168	2.780E-05	2.780E-05	2.780E-05	2.780E-05	2.780E-05	2.780E-05	2.780E-05	2.780E-05	2.780E-05	2.780E-05	2.780E-05
SUMTOT	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03
TOTAL	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03

OUTPUT UNIT = 6 PAGE 70

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:17

* 1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
H	1.909E-03	1.882E-03	1.856E-03	1.830E-03	1.805E-03	1.442E-03	1.089E-03	6.212E-04	3.544E-04	2.022E-04	1.042E-04
LI	1.426E-05	1.426E-05	1.426E-05	1.426E-05	1.426E-05	1.426E-05	1.426E-05	1.426E-05	1.426E-05	1.426E-05	1.426E-05
BE	5.212E-06	5.212E-06	5.212E-06	5.212E-06	5.212E-06	5.212E-06	5.212E-06	5.212E-06	5.212E-06	5.212E-06	5.212E-06
C	9.165E-07	9.165E-07	9.164E-07	9.164E-07	9.164E-07	9.159E-07	9.154E-07	9.143E-07	9.132E-07	9.121E-07	9.108E-07
ZN	2.239E-05	1.449E-19	9.415E-34	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA	1.267E-05	6.306E-20	4.097E-34	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE	2.565E-02	2.550E-02	2.550E-02	2.550E-02	2.550E-02	2.550E-02	2.550E-02	2.550E-02	2.550E-02	2.550E-02	2.550E-02
AS	8.849E-03	7.786E-03	7.786E-03	7.786E-03	7.786E-03	7.786E-03	7.786E-03	7.786E-03	7.786E-03	7.786E-03	7.786E-03
SE	2.160E+00	2.160E+00	2.160E+00	2.160E+00	2.160E+00	2.160E+00	2.160E+00	2.160E+00	2.160E+00	2.160E+00	2.160E+00
BR	8.583E-01	8.538E-01	8.538E-01	8.538E-01	8.538E-01	8.538E-01	8.538E-01	8.538E-01	8.538E-01	8.539E-01	8.539E-01
KR	1.518E+01	1.513E+01	1.511E+01	1.510E+01	1.508E+01	1.485E+01	1.464E+01	1.438E+01	1.425E+01	1.417E+01	1.413E+01
RB	1.409E+01	1.412E+01	1.414E+01	1.415E+01	1.417E+01	1.439E+01	1.460E+01	1.487E+01	1.500E+01	1.508E+01	1.512E+01
SR	4.743E+01	4.033E+01	3.825E+01	3.756E+01	3.727E+01	3.516E+01	3.285E+01	2.899E+01	2.595E+01	2.356E+01	2.137E+01
Y	2.297E+01	2.098E+01	1.998E+01	1.954E+01	1.936E+01	1.925E+01	1.924E+01	1.924E+01	1.924E+01	1.924E+01	1.924E+01
ZR	1.390E+02	1.374E+02	1.365E+02	1.362E+02	1.362E+02	1.381E+02	1.404E+02	1.442E+02	1.473E+02	1.497E+02	1.518E+02
NB	6.125E+00	5.224E+00	2.430E+00	9.844E-01	3.794E-01	7.862E-05	1.427E-04	2.709E-04	3.991E-04	5.273E-04	6.786E-04
MO	9.640E+01	1.069E+02	1.136E+02	1.165E+02	1.176E+02	1.183E+02	1.183E+02	1.183E+02	1.183E+02	1.183E+02	1.183E+02
TC	2.862E+01	2.982E+01	2.982E+01	2.982E+01	2.982E+01	2.982E+01	2.982E+01	2.982E+01	2.982E+01	2.982E+01	2.982E+01
RU	7.795E+01	7.020E+01	6.815E+01	6.731E+01	6.679E+01	6.444E+01	6.429E+01	6.428E+01	6.428E+01	6.428E+01	6.429E+01
RH	1.063E+01	1.737E+01	1.876E+01	1.904E+01	1.909E+01	1.911E+01	1.911E+01	1.911E+01	1.911E+01	1.911E+01	1.911E+01
PD	1.631E+01	1.732E+01	1.798E+01	1.854E+01	1.901E+01	2.134E+01	2.150E+01	2.150E+01	2.150E+01	2.150E+01	2.150E+01
AG	1.446E+00	1.390E+00	1.389E+00	1.389E+00	1.389E+00	1.388E+00	1.388E+00	1.388E+00	1.388E+00	1.388E+00	1.388E+00
CD	1.952E+00	2.009E+00	2.007E+00	2.007E+00	2.007E+00	2.006E+00	2.005E+00	2.004E+00	2.003E+00	2.002E+00	2.002E+00
IN	2.636E-01	2.841E-01	2.868E-01	2.875E-01	2.877E-01	2.889E-01	2.899E-01	2.915E-01	2.924E-01	2.930E-01	2.934E-01
SN	2.988E+00	2.925E+00	2.912E+00	2.904E+00	2.899E+00	2.891E+00	2.891E+00	2.891E+00	2.891E+00	2.891E+00	2.891E+00
SB	1.309E+00	1.205E+00	1.185E+00	1.162E+00	1.138E+00	8.602E-01	7.419E-01	6.984E-01	6.948E-01	6.945E-01	6.945E-01

TE	1.661E+01	1.479E+01	1.474E+01	1.474E+01	1.475E+01	1.502E+01	1.514E+01	1.518E+01	1.519E+01	1.519E+01	1.519E+01
I	9.935E+00	7.233E+00	7.317E+00	7.347E+00	7.361E+00	7.378E+00	7.378E+00	7.378E+00	7.378E+00	7.378E+00	7.378E+00
XE	1.783E+02	1.788E+02	1.788E+02	1.788E+02	1.788E+02	1.788E+02	1.788E+02	1.788E+02	1.788E+02	1.788E+02	1.788E+02
CS	9.471E+01	9.859E+01	9.832E+01	9.805E+01	9.779E+01	9.395E+01	8.980E+01	8.291E+01	7.745E+01	7.312E+01	6.914E+01
BA	5.358E+01	4.642E+01	4.664E+01	4.691E+01	4.717E+01	5.101E+01	5.516E+01	6.205E+01	6.751E+01	7.184E+01	7.581E+01
LA	4.511E+01	4.403E+01	4.402E+01	4.402E+01	4.402E+01	4.402E+01	4.402E+01	4.402E+01	4.402E+01	4.402E+01	4.402E+01
CE	1.249E+02	1.129E+02	1.060E+02	1.015E+02	9.820E+01	8.532E+01	8.495E+01	8.494E+01	8.494E+01	8.494E+01	8.494E+01
PR	3.253E+01	3.861E+01	4.043E+01	4.070E+01	4.074E+01	4.075E+01	4.075E+01	4.075E+01	4.075E+01	4.075E+01	4.075E+01
ND	1.079E+02	1.199E+02	1.251E+02	1.293E+02	1.326E+02	1.454E+02	1.458E+02	1.458E+02	1.458E+02	1.458E+02	1.458E+02
PM	1.288E+01	1.397E+01	1.307E+01	1.223E+01	1.145E+01	3.979E+00	1.062E+00	7.561E-02	5.384E-03	3.836E-04	1.701E-05
SM	1.690E+01	1.833E+01	1.924E+01	2.007E+01	2.085E+01	2.825E+01	3.108E+01	3.191E+01	3.183E+01	3.170E+01	3.155E+01
EU	2.142E+00	2.054E+00	2.048E+00	2.045E+00	2.042E+00	2.018E+00	2.034E+00	2.135E+00	2.263E+00	2.393E+00	2.538E+00
GD	6.848E-01	8.441E-01	8.544E-01	8.622E-01	8.698E-01	9.637E-01	1.032E+00	1.092E+00	1.112E+00	1.119E+00	1.122E+00
TB	4.177E-02	4.098E-02	4.091E-02	4.088E-02	4.087E-02	4.086E-02	4.086E-02	4.086E-02	4.086E-02	4.086E-02	4.086E-02
DY	1.742E-02	1.883E-02	1.890E-02	1.893E-02	1.894E-02	1.895E-02	1.895E-02	1.895E-02	1.895E-02	1.895E-02	1.895E-02
HO	9.302E-04	9.238E-04	9.238E-04	9.238E-04	9.238E-04	9.238E-04	9.238E-04	9.238E-04	9.238E-04	9.238E-04	9.238E-04
ER	5.761E-04	6.081E-04	6.081E-04	6.081E-04	6.081E-04	6.081E-04	6.081E-04	6.081E-04	6.081E-04	6.081E-04	6.081E-04
SUMTOT	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03
TOTAL	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03

CUMULATIVE TABLE TOTALS

AP+FP	7.687E+04	7.687E+04	7.687E+04	7.687E+04	7.687E+04	7.687E+04	7.687E+04	7.687E+04	7.687E+04	7.687E+04	7.687E+04
ACT+FP	1.000E+06	1.000E+06	1.000E+06	1.000E+06	1.000E+06	1.000E+06	1.000E+06	1.000E+06	1.000E+06	1.000E+06	1.000E+06
AP+ACT+FP	1.076E+06	1.076E+06	1.076E+06	1.076E+06	1.076E+06	1.076E+06	1.076E+06	1.076E+06	1.076E+06	1.076E+06	1.076E+06

OUTPUT UNIT = 6 PAGE 71

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:17

* 1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
H 3	1.843E+01	1.817E+01	1.792E+01	1.767E+01	1.742E+01	1.392E+01	1.051E+01	5.998E+00	3.421E+00	1.952E+00	1.006E+00
C 14	4.087E-06	4.087E-06	4.086E-06	4.086E-06	4.086E-06	4.084E-06	4.082E-06	4.077E-06	4.072E-06	4.067E-06	4.061E-06
CO 72	5.569E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 72	1.043E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 72	1.882E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 72	2.088E+01	1.357E-13	8.816E-28	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 72	2.092E+01	1.947E-13	1.265E-27	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

CO 73	1.743E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 73	8.719E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 73	2.804E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 73	4.417E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 73	4.554E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 73M	4.557E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 74	3.636E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 74	5.912E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 74	4.112E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 74	8.792E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 74	9.170E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 75	2.396E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 75	4.207E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 75	1.712E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 75	1.954E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 75	1.965E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 75M	8.383E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 76	6.385E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 76	3.386E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 76	3.286E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 76	4.612E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 76	7.066E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 77	1.065E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 77	1.560E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 77	3.766E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 77	8.663E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 77	3.520E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 77M	8.231E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 77	1.004E+03	1.149E-14	1.148E-31	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 77M	2.494E+00	2.849E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 78	1.225E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 78	5.648E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 78	3.961E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 78	1.619E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 78	2.035E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 78	2.072E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 79	1.422E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 79	2.272E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 79	1.742E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 79	4.406E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 79	5.223E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 79	1.523E-02	1.523E-02	1.523E-02	1.523E-02	1.523E-02	1.523E-02	1.523E-02	1.523E-02	1.522E-02	1.522E-02	1.522E-02
SE 79M	5.225E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

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CU 80      1.552E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
                                                                    OUTPUT UNIT =  6                                    PAGE   72
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:32:17

    *  1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240
                                                                                                   FISSION PRODUCTS
    POWER= 1.00000E+00 MW,  BURNUP= 1.00000E+00 MWD,  FLUX= 1.00E+00 N/CM**2-SEC

                    7 SUMMARY TABLE:  RADIOACTIVITY,  CURIES
                          1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240
            0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
ZN 80       8.771E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
GA 80       1.962E+03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
GE 80       9.746E+03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
AS 80       1.156E+04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
BR 80       1.539E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
BR 80M      9.506E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CU 81       1.104E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
ZN 81       1.904E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
GA 81       1.142E+03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
GE 81       1.263E+04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
AS 81       1.879E+04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SE 81       1.978E+04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SE 81M      5.711E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
ZN 82       2.357E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
GA 82       4.106E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
GE 82       1.167E+04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
AS 82       1.873E+04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
AS 82M      7.032E+03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
BR 82       1.674E+02 3.456E-17 7.093E-36 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
BR 82M      5.778E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
ZN 83       2.147E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
GA 83       1.111E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
GE 83       8.624E+03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
AS 83       3.501E+04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SE 83       1.797E+04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SE 83M      2.883E+04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
BR 83       4.737E+04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
KR 83M      4.737E+04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
GA 84       1.201E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
GE 84       2.318E+03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
AS 84       2.764E+04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SE 84       8.394E+04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
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BR 84	8.591E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 84M	2.092E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 85	6.537E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 85	1.741E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 85	5.161E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 85M	3.735E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 85	1.048E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 85	4.113E+02	4.058E+02	3.993E+02	3.929E+02	3.866E+02	2.985E+02	2.160E+02	1.132E+02	5.928E+01	3.105E+01	1.448E+01
KR 85M	1.059E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 86	1.228E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 86	9.570E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 86	1.056E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 86	7.769E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 86M	7.825E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 86	4.009E+01	1.348E+00	4.534E-02	1.525E-03	5.127E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 86M	1.565E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 87	1.818E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 87	5.111E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 87	8.136E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 73

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:17

* 1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
BR 87	1.771E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 87	2.097E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 87	8.903E-07	8.909E-07	8.909E-07	8.909E-07	8.909E-07	8.909E-07	8.909E-07	8.909E-07	8.909E-07	8.909E-07	8.909E-07
SR 87M	3.537E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 88	5.432E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 88	3.259E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 88	3.162E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 88	1.997E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 88	2.963E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 88	2.994E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 89	3.253E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 89	8.991E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 89	1.481E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 89	3.708E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

RB 89	3.884E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SR 89	2.771E+05	7.914E+04	2.260E+04	6.452E+03	1.842E+03	3.597E-06	4.669E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y 89M	9.025E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SE 90	2.936E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
BR 90	9.852E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
KR 90	3.684E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
RB 90	3.815E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
RB 90M	8.234E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SR 90	3.154E+03	3.135E+03	3.116E+03	3.098E+03	3.079E+03	2.800E+03	2.486E+03	1.959E+03	1.544E+03	1.217E+03	9.191E+02	
Y 90	3.216E+03	3.136E+03	3.117E+03	3.099E+03	3.080E+03	2.801E+03	2.486E+03	1.960E+03	1.545E+03	1.217E+03	9.193E+02	
Y 90M	2.800E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SE 91	3.883E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
BR 91	3.297E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
KR 91	2.756E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
RB 91	4.609E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SR 91	4.841E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y 91	3.195E+05	1.095E+05	3.711E+04	1.258E+04	4.264E+03	1.296E-04	5.203E-14	8.383E-33	0.000E+00	0.000E+00	0.000E+00	
Y 91M	2.809E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SE 92	1.665E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
BR 92	2.708E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
KR 92	1.287E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
RB 92	3.949E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SR 92	5.066E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y 92	5.081E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
BR 93	5.366E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
KR 93	4.620E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
RB 93	2.973E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SR 93	5.515E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y 93	5.617E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
ZR 93	7.071E-02	7.114E-02	7.114E-02	7.114E-02	7.114E-02	7.114E-02	7.114E-02	7.114E-02	7.114E-02	7.114E-02	7.114E-02	
NB 93M	6.023E-04	1.450E-03	2.287E-03	3.114E-03	3.930E-03	1.567E-02	2.735E-02	4.341E-02	5.306E-02	5.886E-02	6.280E-02	
BR 94	4.315E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
KR 94	1.865E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
RB 94	1.527E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SR 94	5.109E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Y 94	5.482E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
NB 94	2.259E-06	2.259E-06	2.259E-06	2.259E-06	2.259E-06	2.258E-06	2.258E-06	2.257E-06	2.256E-06	2.256E-06	2.255E-06	

OUTPUT UNIT = 6

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:17

* 1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
NB 94M	1.903E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 95	2.972E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 95	1.848E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 95	8.023E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 95	4.770E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 95	5.754E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 95	3.593E+05	1.336E+05	4.970E+04	1.848E+04	6.872E+03	9.187E-04	2.348E-12	1.534E-29	0.000E+00	0.000E+00	0.000E+00
NB 95	2.385E+05	2.042E+05	9.504E+04	3.849E+04	1.484E+04	2.040E-03	5.213E-12	3.406E-29	0.000E+00	0.000E+00	0.000E+00
NB 95M	2.586E+03	9.915E+02	3.687E+02	1.371E+02	5.098E+01	6.815E-06	1.742E-14	1.138E-31	0.000E+00	0.000E+00	0.000E+00
BR 96	1.588E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 96	2.971E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 96	2.114E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 96	3.321E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 96	5.416E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 96	2.750E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 97	1.569E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 97	3.990E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 97	1.763E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 97	4.623E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 97	5.519E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 97	5.554E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 97M	5.232E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 98	1.914E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 98	8.580E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 98	7.013E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 98	3.331E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 98	5.502E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 98	5.565E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 98M	3.820E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 99	8.207E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 99	1.867E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 99	1.920E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 99	5.425E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 99	5.593E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 99M	1.760E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 99	5.777E+05	5.837E-05	5.897E-15	5.957E-25	6.017E-35	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC 99	4.837E-01	5.058E-01	5.058E-01	5.058E-01	5.057E-01	5.057E-01	5.057E-01	5.057E-01	5.057E-01	5.057E-01	5.057E-01
TC 99M	5.057E+05	5.623E-05	5.681E-15	5.739E-25	5.766E-35	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB100	6.810E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

SR100	3.539E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y100	8.714E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR100	5.047E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB100	3.046E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB100M	3.046E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC100	6.595E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR101	5.031E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y101	2.887E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR101	3.309E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB101	4.944E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO101	5.149E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC101	5.149E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 75

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:17

* 1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
SR102	4.397E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y102	6.722E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR102	1.808E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB102	3.987E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO102	4.579E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC102	4.583E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC102M	3.366E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH102	1.665E-03	1.568E-03	1.477E-03	1.392E-03	1.311E-03	5.039E-04	1.525E-04	1.397E-05	1.280E-06	1.173E-07	6.988E-09
SR103	1.357E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y103	8.787E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR103	6.156E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB103	2.529E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO103	3.875E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC103	3.919E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU103	2.806E+05	5.601E+04	1.118E+04	2.233E+03	4.457E+02	2.838E-09	2.872E-23	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH103M	2.527E+05	5.050E+04	1.008E+04	2.013E+03	4.018E+02	2.559E-09	2.589E-23	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR104	4.965E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y104	6.644E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR104	1.223E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB104	1.067E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO104	2.680E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

TC104	2.831E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH104	1.561E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH104M	1.130E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y105	3.727E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR105	1.612E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB105	3.237E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO105	1.678E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC105	2.011E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU105	2.028E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH105	1.803E+05	4.642E-14	1.024E-32	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH105M	5.680E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR106	2.399E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB106	8.815E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO106	7.608E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC106	1.160E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU106	1.662E+04	1.400E+04	1.179E+04	9.925E+03	8.357E+03	5.339E+02	1.715E+01	1.766E-02	1.830E-05	1.887E-08	5.648E-12
RH106	3.207E+04	1.400E+04	1.179E+04	9.925E+03	8.357E+03	5.339E+02	1.715E+01	1.770E-02	1.830E-05	1.888E-08	5.648E-12
RH106M	7.510E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR107	1.158E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB107	1.306E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO107	2.472E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC107	5.489E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU107	8.518E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH107	8.563E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD107	1.749E-03	1.750E-03	1.750E-03	1.750E-03	1.750E-03	1.750E-03	1.750E-03	1.750E-03	1.750E-03	1.750E-03	1.750E-03
PD107M	6.161E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR108	3.359E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB108	4.181E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO108	9.837E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC108	3.274E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:17

* 1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
RU108	5.508E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH108	5.558E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH108M	5.101E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

AG108	1.801E-02	2.881E-08	2.877E-08	2.873E-08	2.869E-08	2.807E-08	2.731E-08	2.586E-08	2.449E-08	2.319E-08	2.174E-08
ZR109	2.414E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB109	8.038E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO109	3.688E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC109	1.745E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU109	3.506E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH109	3.614E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH109M	1.807E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD109	3.656E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD109M	1.808E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG109M	3.655E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB110	9.559E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO110	9.713E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC110	5.789E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU110	1.692E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH110	1.790E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH110M	9.891E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG110	1.587E+03	9.249E-02	7.179E-02	5.573E-02	4.326E-02	7.517E-04	4.742E-06	1.887E-10	7.512E-15	2.990E-19	1.921E-24
AG110M	8.958E+00	6.954E+00	5.398E+00	4.190E+00	3.253E+00	5.652E-02	3.565E-04	1.419E-08	5.648E-13	2.248E-17	1.445E-22
NB111	8.149E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO111	2.134E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC111	2.500E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU111	9.403E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH111	1.163E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD111	1.175E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD111M	1.294E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG111	1.128E+04	2.311E+00	4.724E-04	9.655E-08	1.973E-11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG111M	1.170E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD111M	1.727E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO112	3.954E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC112	9.720E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU112	5.439E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH112	7.451E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD112	7.778E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG112	7.798E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO113	2.813E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC113	2.659E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU113	3.445E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH113	6.057E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD113	6.824E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG113	6.151E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG113M	6.884E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD113M	1.405E+00	1.392E+00	1.375E+00	1.359E+00	1.343E+00	1.110E+00	8.757E-01	5.445E-01	3.386E-01	2.105E-01	1.202E-01

MO114	2.887E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC114	6.132E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU114	1.749E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH114	4.117E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD114	5.339E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:17

* 1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
AG114	5.386E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN114	1.065E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO115	1.934E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC115	1.299E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU115	8.532E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH115	3.453E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD115	5.625E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG115	4.185E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG115M	1.589E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD115	5.277E+03	2.439E-09	1.122E-21	5.157E-34	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD115M	3.648E+02	8.824E+01	2.134E+01	5.163E+00	1.249E+00	1.715E-10	8.063E-23	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN115M	5.290E+03	6.202E-03	1.500E-03	3.628E-04	8.777E-05	1.205E-14	5.667E-27	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC116	8.064E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU116	1.924E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH116	1.705E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD116	4.476E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG116	2.431E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG116M	2.431E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN116	7.915E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN116M	6.241E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC117	3.460E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU117	3.006E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH117	1.137E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD117	4.293E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG117	2.445E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG117M	2.444E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD117	3.203E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD117M	1.735E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

IN117	2.954E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN117M	3.742E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN117M	2.053E-01	2.237E-03	2.437E-05	2.655E-07	2.892E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU118	1.900E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH118	1.479E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD118	3.530E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG118	3.355E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG118M	2.231E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD118	4.906E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN118	4.907E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN118M	1.182E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH119	9.588E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD119	2.217E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG119	4.330E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD119	2.415E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD119M	2.416E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN119	1.392E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN119M	3.627E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN119M	1.637E+01	1.265E+01	9.766E+00	7.543E+00	5.826E+00	9.341E-02	5.330E-04	1.735E-08	5.649E-13	1.839E-17	9.322E-23
RU120	3.955E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH120	1.787E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD120	1.001E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG120	3.304E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 78

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:17

* 1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
CD120	4.834E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN120	2.453E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN120M	2.452E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH121	2.824E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD121	3.937E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG121	2.355E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD121	4.831E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN121	4.074E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN121M	1.001E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN121	5.077E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

SN121M	4.541E-03	4.526E-03	4.510E-03	4.494E-03	4.479E-03	4.237E-03	3.953E-03	3.441E-03	2.996E-03	2.608E-03	2.214E-03
RH122	3.426E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD122	1.214E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG122	1.482E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD122	4.759E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN122	5.037E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN122M	2.798E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB122	4.009E+01	2.650E-09	1.752E-19	1.158E-29	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB122M	3.700E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH123	2.944E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD123	2.777E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG123	7.863E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD123	4.597E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN123	4.142E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN123M	1.654E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN123	4.553E+02	2.790E+02	1.709E+02	1.047E+02	6.414E+01	2.524E-02	1.400E-06	4.302E-15	1.322E-23	4.064E-32	0.000E+00
SN123M	4.819E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE123M	4.215E-03	2.484E-03	1.464E-03	8.625E-04	5.083E-04	1.074E-07	2.738E-12	1.778E-21	1.155E-30	0.000E+00	0.000E+00
PD124	5.056E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG124	3.522E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD124	4.267E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN124	6.699E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB124	1.104E+01	3.858E+00	1.348E+00	4.710E-01	1.646E-01	8.134E-09	5.993E-18	3.254E-36	0.000E+00	0.000E+00	0.000E+00
SB124M	1.469E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG125	1.036E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD125	2.837E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN125	3.863E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN125M	2.746E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN125	3.575E+03	5.031E+00	7.106E-03	1.000E-05	1.407E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN125M	6.051E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB125	5.639E+02	5.620E+02	5.280E+02	4.959E+02	4.659E+02	1.712E+02	4.899E+01	4.012E+00	3.285E-01	2.690E-02	1.404E-03
TE125M	5.744E+01	1.069E+02	1.187E+02	1.176E+02	1.125E+02	4.177E+01	1.195E+01	9.788E-01	8.015E-02	6.563E-03	3.425E-04
PD126	6.941E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG126	3.134E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD126	2.178E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN126	9.133E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN126	2.415E-02	2.415E-02	2.415E-02	2.415E-02	2.415E-02	2.415E-02	2.415E-02	2.415E-02	2.415E-02	2.415E-02	2.414E-02
SB126	1.734E+02	1.054E+00	9.749E-03	3.419E-03	3.381E-03	3.381E-03	3.381E-03	3.381E-03	3.381E-03	3.381E-03	3.380E-03
SB126M	9.783E+01	2.415E-02	2.415E-02	2.415E-02	2.415E-02	2.415E-02	2.415E-02	2.415E-02	2.415E-02	2.415E-02	2.414E-02
CD127	1.048E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN127	4.901E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* 1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
IN127M	4.907E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN127	1.789E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN127M	8.199E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB127	2.755E+04	2.024E-03	1.464E-10	1.059E-17	7.665E-25	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE127	2.518E+04	8.889E+02	4.974E+02	2.783E+02	1.557E+02	1.437E-02	1.301E-07	1.065E-17	8.720E-28	0.000E+00	0.000E+00
TE127M	1.480E+03	9.075E+02	5.078E+02	2.841E+02	1.590E+02	1.468E-02	1.328E-07	1.087E-17	8.902E-28	7.221E-38	0.000E+00
AG128	1.131E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD128	4.088E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN128	8.856E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN128	4.758E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB128	3.213E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB128M	5.052E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I128	1.451E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD129	1.743E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN129	7.040E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN129	2.992E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN129M	3.875E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB129	8.772E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE129	8.422E+04	9.716E+02	1.477E+02	2.245E+01	3.413E+00	2.777E-13	1.207E-29	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE129M	9.756E+03	1.493E+03	2.269E+02	3.449E+01	5.244E+00	4.266E-13	1.854E-29	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I129	9.461E-04	9.980E-04	1.005E-03	1.007E-03	1.007E-03	1.007E-03	1.007E-03	1.007E-03	1.007E-03	1.007E-03	1.007E-03
CD130	1.942E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN130	9.188E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN130	1.059E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB130	2.692E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB130M	1.387E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I130	6.994E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I130M	2.717E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD131	3.053E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN131	3.423E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN131	1.010E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB131	2.596E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE131	2.682E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE131M	4.073E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I131	2.923E+05	1.148E+02	4.377E-02	1.669E-05	6.365E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

XE131M	2.949E+03	4.582E+01	2.362E-01	1.161E-03	5.684E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD132	2.832E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN132	9.548E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN132	6.000E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB132	1.642E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB132M	1.035E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE132	4.344E+05	1.590E-03	5.815E-12	2.127E-20	7.781E-29	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I132	4.390E+05	1.638E-03	5.991E-12	2.192E-20	8.017E-29	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS132	4.829E+00	2.743E-04	1.559E-08	8.856E-13	5.032E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN133	1.010E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN133	1.887E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB133	2.069E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE133	3.806E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE133M	2.579E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I133	6.489E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I133M	1.568E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 80

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:17

* 1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
XE133	6.273E+05	4.459E+00	2.564E-05	1.474E-10	8.474E-16	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE133M	1.961E+04	9.009E-09	2.524E-21	7.072E-34	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN134	5.467E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN134	2.355E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB134	3.072E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB134M	2.836E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE134	5.934E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I134	7.203E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I134M	5.437E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE134M	3.424E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS134	5.424E+02	4.988E+02	4.586E+02	4.216E+02	3.877E+02	1.010E+02	1.882E+01	6.525E-01	2.263E-02	7.847E-04	1.486E-05
CS134M	1.192E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN135	2.813E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB135	2.036E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE135	3.019E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I135	6.028E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE135	1.654E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

XE135M	1.175E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS135	1.322E-02	1.350E-02	1.350E-02	1.350E-02	1.350E-02	1.350E-02	1.350E-02	1.350E-02	1.350E-02	1.350E-02	1.350E-02
CS135M	1.682E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA135M	9.777E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN136	2.385E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB136	3.879E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE136	1.701E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I136	2.929E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I136M	1.764E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS136	2.875E+03	2.294E+01	1.831E-01	1.461E-03	1.166E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA136M	4.737E+02	3.780E+00	3.017E-02	2.407E-04	1.921E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB137	5.395E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE137	4.576E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I137	3.017E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE137	5.679E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS137	3.654E+03	3.633E+03	3.612E+03	3.591E+03	3.571E+03	3.255E+03	2.900E+03	2.302E+03	1.827E+03	1.450E+03	1.104E+03
BA137M	3.502E+03	3.437E+03	3.417E+03	3.397E+03	3.378E+03	3.080E+03	2.744E+03	2.178E+03	1.728E+03	1.372E+03	1.044E+03
SB138	6.623E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE138	1.171E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I138	1.563E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE138	5.672E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS138	6.189E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS138M	2.525E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB139	4.851E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE139	2.254E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I139	7.206E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE139	4.543E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS139	5.878E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA139	5.997E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE140	2.767E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I140	2.172E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE140	3.121E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS140	5.306E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA140	5.472E+05	3.880E+03	2.752E+01	1.951E-01	1.384E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 81

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:17

* 1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
LA140	5.510E+05	4.466E+03	3.167E+01	2.246E-01	1.592E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR140	2.974E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE141	1.236E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I141	3.576E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE141	1.086E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS141	4.044E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA141	5.473E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA141	5.495E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE141	4.391E+05	6.311E+04	9.007E+03	1.286E+03	1.835E+02	5.445E-12	6.706E-29	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE142	1.240E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I142	4.672E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE142	3.896E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS142	2.561E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA142	5.296E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA142	5.402E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE142	9.753E-07	9.764E-07	9.764E-07	9.764E-07	9.764E-07	9.764E-07	9.764E-07	9.764E-07	9.764E-07	9.764E-07	9.764E-07
PR142	9.780E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR142M	2.088E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I143	2.904E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE143	6.133E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS143	1.334E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA143	4.754E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA143	5.289E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE143	5.312E+05	5.461E-15	5.578E-35	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR143	4.842E+05	5.125E+03	4.822E+01	4.538E-01	4.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I144	2.333E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE144	1.068E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS144	3.406E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA144	3.737E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA144	4.756E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE144	1.031E+05	8.250E+04	6.604E+04	5.285E+04	4.230E+04	1.200E+03	1.397E+01	1.893E-03	2.566E-07	3.477E-11	9.484E-16
PR144	1.048E+05	8.251E+04	6.604E+04	5.286E+04	4.230E+04	1.200E+03	1.397E+01	1.893E-03	2.566E-07	3.477E-11	9.484E-16
PR144M	1.241E+03	9.901E+02	7.924E+02	6.343E+02	5.077E+02	1.440E+01	1.676E-01	2.272E-05	3.079E-09	4.173E-13	1.138E-17
XE145	1.027E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS145	8.612E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA145	1.853E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA145	3.360E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE145	3.582E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR145	3.582E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE146	7.050E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS146	1.242E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA146	6.813E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

LA146	2.159E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE146	2.791E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR146	2.799E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM146	1.187E-02	1.150E-02	1.114E-02	1.080E-02	1.046E-02	6.321E-03	3.366E-03	9.545E-04	2.707E-04	7.676E-05	1.735E-05
XE147	6.188E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS147	2.048E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA147	1.561E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA147	1.040E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE147	2.114E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 82

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:17

* 1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

? SUMMARY TABLE: RADIOACTIVITY, CURIES
1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
PR147	2.166E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND147	2.079E+05	6.806E+02	2.226E+00	7.280E-03	2.383E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM147	1.140E+04	1.294E+04	1.212E+04	1.134E+04	1.062E+04	3.690E+03	9.846E+02	7.012E+01	4.993E+00	3.556E-01	1.574E-02
CS148	1.305E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA148	2.678E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA148	3.828E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE148	1.498E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR148	1.656E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM148	2.049E+04	2.790E+01	5.991E+00	1.294E+00	2.794E-01	6.255E-12	3.046E-25	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM148M	2.281E+03	4.925E+02	1.064E+02	2.297E+01	4.961E+00	1.111E-10	5.409E-24	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA149	2.949E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA149	9.180E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE149	8.037E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR149	1.102E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND149	1.123E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM149	1.154E+05	4.455E-08	1.664E-20	6.213E-33	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS150	1.215E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA150	2.200E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA150	1.704E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE150	3.454E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR150	6.748E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM150	8.041E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA151	2.164E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE151	1.006E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PR151	3.593E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND151	5.059E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM151	5.072E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM151	5.956E+01	6.128E+01	6.116E+01	6.104E+01	6.093E+01	5.908E+01	5.685E+01	5.263E+01	4.873E+01	4.512E+01	4.120E+01
BA152	5.902E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA152	2.506E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE152	2.252E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR152	1.544E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND152	3.373E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM152	3.441E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM152M	5.536E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU152	1.711E-01	1.690E-01	1.668E-01	1.647E-01	1.626E-01	1.326E-01	1.028E-01	6.175E-02	3.710E-02	2.228E-02	1.221E-02
EU152M	1.153E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA153	2.665E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE153	4.103E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR153	4.875E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND153	1.949E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM153	2.185E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM153	2.884E+04	2.151E-10	1.601E-24	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD153	7.077E-02	5.448E-02	4.195E-02	3.229E-02	2.486E-02	3.787E-04	2.027E-06	5.802E-11	1.661E-15	4.756E-20	2.071E-25
LA154	1.240E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE154	4.812E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR154	1.102E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND154	8.881E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM154	1.071E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM154M	1.665E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU154	2.879E+01	2.821E+01	2.765E+01	2.710E+01	2.656E+01	1.924E+01	1.286E+01	5.743E+00	2.565E+00	1.146E+00	4.426E-01

OUTPUT UNIT = 6

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:17

* 1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
CE155	5.748E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR155	2.250E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND155	3.306E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM155	6.294E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM155	6.975E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU155	8.333E+01	8.053E+01	7.776E+01	7.509E+01	7.251E+01	4.146E+01	2.061E+01	5.094E+00	1.259E+00	3.112E-01	5.981E-02

CE156	5.502E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR156	4.153E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND156	1.055E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM156	3.064E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM156	4.047E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU156	8.266E+03	1.296E+02	2.007E+00	3.107E-02	4.811E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE157	4.422E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR157	7.053E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND157	2.996E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM157	1.389E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM157	2.476E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU157	2.725E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR158	5.573E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND158	4.661E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM158	4.212E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM158	1.250E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU158	1.339E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR159	2.276E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND159	5.112E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM159	9.364E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM159	5.462E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU159	6.654E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD159	6.796E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND160	4.936E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM160	1.871E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM160	2.112E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU160	3.130E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB160	3.300E+00	1.375E+00	5.729E-01	2.387E-01	9.948E-02	8.222E-08	2.049E-15	1.272E-30	0.000E+00	0.000E+00	0.000E+00
ND161	3.933E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM161	2.405E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM161	5.884E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU161	1.369E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD161	1.568E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB161	1.484E+02	1.583E-02	1.688E-06	1.800E-10	1.919E-14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM162	1.386E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM162	1.034E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU162	4.878E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD162	8.452E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB162	8.363E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB162M	2.494E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM163	1.383E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU163	1.295E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD163	3.608E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

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TB163      3.862E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SM164      1.409E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
                                                                                  OUTPUT UNIT =  6                      PAGE   84
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:32:17

    *  1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240
                                                                                                FISSION PRODUCTS
    POWER= 1.00000E+00 MW,  BURNUP= 1.00000E+00 MWD,  FLUX= 1.00E+00 N/CM**2-SEC

                    7 SUMMARY TABLE:  RADIOACTIVITY,  CURIES
                          1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240
           0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
EU164      3.077E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
GD164      1.586E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
TB164      1.907E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SM165      9.603E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
EU165      5.552E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
GD165      6.002E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
TB165      9.052E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
DY165      1.585E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
DY165M     7.525E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
DY166      5.481E+00 4.408E-08 3.546E-16 2.852E-24 2.294E-32 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
HO166      5.891E+00 6.568E-08 5.283E-16 4.249E-24 3.418E-32 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
HO166M     1.795E-06 1.795E-06 1.795E-06 1.795E-06 1.794E-06 1.790E-06 1.785E-06 1.775E-06 1.765E-06 1.754E-06 1.742E-06
ER167M     1.462E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SUMTOT     5.364E+07 9.388E+05 4.204E+05 2.348E+05 1.564E+05 1.986E+04 1.206E+04 8.658E+03 6.766E+03 5.337E+03 4.045E+03

TOTAL      5.364E+07 9.388E+05 4.204E+05 2.348E+05 1.564E+05 1.986E+04 1.206E+04 8.658E+03 6.766E+03 5.337E+03 4.045E+03
                                                                                  OUTPUT UNIT =  6                      PAGE   85
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:32:17

    *  1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240
                                                                                                FISSION PRODUCTS
    POWER= 1.00000E+00 MW,  BURNUP= 1.00000E+00 MWD,  FLUX= 1.00E+00 N/CM**2-SEC

                    7 SUMMARY TABLE:  RADIOACTIVITY,  CURIES
                          1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240
           0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
 H         1.843E+01 1.817E+01 1.792E+01 1.767E+01 1.742E+01 1.392E+01 1.051E+01 5.998E+00 3.421E+00 1.952E+00 1.006E+00
 C         4.087E-06 4.087E-06 4.086E-06 4.086E-06 4.086E-06 4.084E-06 4.082E-06 4.077E-06 4.072E-06 4.067E-06 4.061E-06
CO         7.675E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
NI         2.822E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CU         1.867E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
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ZN	1.762E+03	1.357E-13	8.816E-28	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA	8.679E+03	1.947E-13	1.265E-27	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE	5.365E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS	1.595E+05	1.149E-14	1.148E-31	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE	4.762E+05	1.523E-02	1.523E-02	1.523E-02	1.523E-02	1.523E-02	1.523E-02	1.523E-02	1.522E-02	1.522E-02	1.522E-02
BR	1.056E+06	3.456E-17	7.093E-36	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR	1.870E+06	4.058E+02	3.993E+02	3.929E+02	3.866E+02	2.985E+02	2.160E+02	1.132E+02	5.928E+01	3.105E+01	1.448E+01
RB	2.564E+06	1.348E+00	4.534E-02	1.525E-03	5.216E-05	8.909E-07	8.909E-07	8.909E-07	8.909E-07	8.909E-07	8.909E-07
SR	3.412E+06	8.227E+04	2.571E+04	9.550E+03	4.922E+03	2.800E+03	2.486E+03	1.959E+03	1.544E+03	1.217E+03	9.191E+02
Y	4.450E+06	1.126E+05	4.022E+04	1.568E+04	7.344E+03	2.801E+03	2.486E+03	1.960E+03	1.545E+03	1.217E+03	9.193E+02
ZR	3.096E+06	1.336E+05	4.970E+04	1.848E+04	6.872E+03	7.206E-02	7.114E-02	7.114E-02	7.114E-02	7.114E-02	7.114E-02
NB	4.362E+06	2.052E+05	9.541E+04	3.863E+04	1.489E+04	1.772E-02	2.735E-02	4.341E-02	5.306E-02	5.886E-02	6.280E-02
MO	2.489E+06	5.837E-05	5.897E-15	5.957E-25	6.017E-35	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC	2.593E+06	5.058E-01	5.058E-01	5.058E-01	5.057E-01	5.057E-01	5.057E-01	5.057E-01	5.057E-01	5.057E-01	5.057E-01
RU	7.135E+05	7.001E+04	2.297E+04	1.216E+04	8.803E+03	5.339E+02	1.715E+01	1.766E-02	1.830E-05	1.887E-08	5.648E-12
RH	7.981E+05	6.449E+04	2.187E+04	1.194E+04	8.759E+03	5.339E+02	1.715E+01	1.771E-02	1.958E-05	1.362E-07	6.994E-09
PD	1.082E+05	1.750E-03	1.750E-03	1.750E-03	1.750E-03	1.750E-03	1.750E-03	1.750E-03	1.750E-03	1.750E-03	1.750E-03
AG	1.150E+05	9.357E+00	5.470E+00	4.246E+00	3.296E+00	5.727E-02	3.616E-04	3.308E-07	2.996E-07	2.837E-07	2.660E-07
CD	5.048E+04	8.963E+01	2.272E+01	6.522E+00	2.592E+00	1.110E+00	8.757E-01	5.445E-01	3.386E-01	2.105E-01	1.202E-01
IN	1.062E+05	6.202E-03	1.500E-03	3.628E-04	8.777E-05	1.801E-12	1.789E-12	1.789E-12	1.789E-12	1.789E-12	1.789E-12
SN	4.507E+05	2.967E+02	1.807E+02	1.123E+02	6.999E+01	1.470E-01	2.864E-02	2.759E-02	2.714E-02	2.675E-02	2.636E-02
SB	1.154E+06	5.669E+02	5.293E+02	4.964E+02	4.661E+02	1.712E+02	4.902E+01	4.039E+00	3.560E-01	5.443E-02	2.893E-02
TE	2.628E+06	4.367E+03	1.498E+03	7.370E+02	4.359E+02	4.180E+01	1.195E+01	9.788E-01	8.015E-02	6.563E-03	3.425E-04
I	3.800E+06	1.148E+02	4.477E-02	1.023E-03	1.007E-03	1.007E-03	1.007E-03	1.007E-03	1.007E-03	1.007E-03	1.007E-03
XE	2.992E+06	5.028E+01	2.362E-01	1.161E-03	5.684E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS	2.609E+06	4.155E+03	4.071E+03	4.013E+03	3.958E+03	3.357E+03	2.919E+03	2.303E+03	1.827E+03	1.450E+03	1.104E+03
BA	3.349E+06	7.321E+03	3.445E+03	3.398E+03	3.378E+03	3.080E+03	2.744E+03	2.178E+03	1.728E+03	1.372E+03	1.044E+03
LA	3.351E+06	4.466E+03	3.167E+01	2.246E-01	1.592E-03	6.351E-12	6.351E-12	6.351E-12	6.351E-12	6.351E-12	6.351E-12
CE	2.200E+06	1.456E+05	7.504E+04	5.414E+04	4.249E+04	1.200E+03	1.397E+01	1.894E-03	1.233E-06	9.764E-07	9.764E-07
PR	1.847E+06	8.862E+04	6.688E+04	5.349E+04	4.281E+04	1.214E+03	1.414E+01	1.916E-03	2.597E-07	3.519E-11	9.598E-16
ND	4.376E+05	6.806E+02	2.226E+00	7.280E-03	2.383E-05	4.476E-11	4.520E-11	4.520E-11	4.520E-11	4.520E-11	4.520E-11
PM	2.816E+05	1.346E+04	1.223E+04	1.137E+04	1.062E+04	3.690E+03	9.846E+02	7.012E+01	4.993E+00	3.556E-01	1.575E-02
SM	4.448E+04	6.128E+01	6.116E+01	6.104E+01	6.093E+01	5.908E+01	5.685E+01	5.263E+01	4.873E+01	4.512E+01	4.120E+01
EU	1.363E+04	2.385E+02	1.076E+02	1.024E+02	9.924E+01	6.083E+01	3.357E+01	1.090E+01	3.861E+00	1.479E+00	5.147E-01
GD	9.790E+02	5.448E-02	4.195E-02	3.229E-02	2.486E-02	3.787E-04	2.027E-06	5.803E-11	1.275E-14	1.161E-14	1.196E-14
TB	3.046E+02	1.391E+00	5.729E-01	2.387E-01	9.948E-02	8.222E-08	2.049E-15	1.272E-30	0.000E+00	0.000E+00	0.000E+00
DY	2.885E+01	4.408E-08	3.546E-16	2.852E-24	2.294E-32	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HO	5.891E+00	1.861E-06	1.795E-06	1.795E-06	1.794E-06	1.790E-06	1.785E-06	1.775E-06	1.765E-06	1.754E-06	1.742E-06
ER	1.462E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SUMTOT	5.364E+07	9.388E+05	4.204E+05	2.348E+05	1.564E+05	1.986E+04	1.206E+04	8.658E+03	6.766E+03	5.337E+03	4.045E+03
TOTAL	5.364E+07	9.388E+05	4.204E+05	2.348E+05	1.564E+05	1.986E+04	1.206E+04	8.658E+03	6.766E+03	5.337E+03	4.045E+03

CUMULATIVE TABLE TOTALS

AP+FP	5.369E+07	9.426E+05	4.221E+05	2.355E+05	1.568E+05	1.988E+04	1.207E+04	8.660E+03	6.767E+03	5.338E+03	4.046E+03
ACT+FP	7.171E+07	9.397E+05	4.213E+05	2.357E+05	1.573E+05	2.062E+04	1.269E+04	9.086E+03	7.072E+03	5.568E+03	4.222E+03
AP+ACT+FP	7.176E+07	9.435E+05	4.230E+05	2.364E+05	1.577E+05	2.065E+04	1.270E+04	9.088E+03	7.073E+03	5.568E+03	4.222E+03

OUTPUT UNIT = 6

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:17

* 1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
H 3	6.205E-04	6.119E-04	6.033E-04	5.949E-04	5.866E-04	4.687E-04	3.540E-04	2.019E-04	1.152E-04	6.571E-05	3.389E-05
C 14	1.198E-09	1.198E-09	1.198E-09	1.198E-09	1.198E-09	1.198E-09	1.197E-09	1.195E-09	1.194E-09	1.193E-09	1.191E-09
CO 72	2.832E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 72	1.983E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 72	5.232E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 72	3.160E-02	2.053E-16	1.334E-30	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 72	3.977E-01	3.702E-15	2.405E-29	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 73	7.876E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 73	2.778E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 73	5.748E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 73	6.427E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 73	2.060E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 73M	1.810E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 74	2.056E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 74	1.489E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 74	1.366E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 74	5.649E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 74	2.360E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 75	9.118E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 75	1.124E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 75	3.327E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 75	1.599E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 75	5.427E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 75M	6.907E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 76	1.995E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 76	1.330E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 76	4.284E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 76	1.331E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

AS 76	6.257E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 77	4.665E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 77	5.106E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 77	9.436E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 77	1.314E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 77	3.616E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 77M	5.045E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 77	1.415E+00	1.618E-17	1.616E-34	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 77M	3.695E-03	4.222E-20	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 78	4.577E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 78	2.541E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 78	7.265E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 78	4.400E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 78	6.213E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 78	3.238E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 79	5.511E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 79	7.086E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 79	3.616E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 79	5.599E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 79	2.721E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 79	3.791E-06	3.792E-06	3.792E-06	3.792E-06	3.792E-06	3.791E-06	3.791E-06	3.791E-06	3.790E-06	3.790E-06	3.789E-06
SE 79M	2.942E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 80	8.773E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 87

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:17

* 1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

	0.0D Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
ZN 80	2.113E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 80	6.539E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 80	5.945E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 80	2.144E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 80	7.313E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 81	5.963E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 81	8.200E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 81	3.032E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 81	2.431E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 81	1.859E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

SE 81	7.189E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 81M	3.487E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 82	9.402E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 82	1.847E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 82	1.428E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 82	3.874E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 82M	2.378E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 82	2.758E+00	5.693E-19	1.168E-37	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 82M	2.676E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 83	1.047E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 83	4.703E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 83	2.577E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 83	5.523E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 83	3.197E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 83M	3.778E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 83	9.226E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 83M	1.145E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 84	6.081E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 84	5.956E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 84	9.608E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 84	4.672E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 84	1.546E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 84M	4.543E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 85	2.352E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 85	5.197E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 85	1.026E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 85M	7.736E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 85	6.464E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 85	6.162E-01	6.079E-01	5.981E-01	5.885E-01	5.791E-01	4.471E-01	3.236E-01	1.695E-01	8.880E-02	4.651E-02	2.169E-02
KR 85M	2.592E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 86	4.046E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 86	3.861E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 86	1.527E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 86	2.346E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 86M	2.204E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 86	1.811E-01	6.092E-03	2.049E-04	6.889E-06	2.317E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 86M	5.194E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 87	7.679E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 87	1.787E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 87	2.044E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 87	4.055E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* 1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
KR 87	2.635E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 87M	8.113E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 88	2.093E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 88	1.527E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 88	6.985E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 88	2.994E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 88	4.073E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 88	4.763E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 89	1.414E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 89	2.716E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 89	4.212E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 89	7.029E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 89	7.134E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 89	9.578E+02	2.736E+02	7.812E+01	2.231E+01	6.369E+00	1.244E-08	1.614E-19	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 89M	4.905E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 90	7.987E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 90	3.314E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 90	5.658E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 90	9.094E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 90M	2.183E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 90	3.660E+00	3.639E+00	3.617E+00	3.595E+00	3.574E+00	3.250E+00	2.885E+00	2.274E+00	1.792E+00	1.413E+00	1.067E+00
Y 90	1.782E+01	1.738E+01	1.728E+01	1.717E+01	1.707E+01	1.552E+01	1.378E+01	1.086E+01	8.561E+00	6.747E+00	5.095E+00
Y 90M	1.134E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 91	1.506E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 91	1.054E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 91	5.392E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 91	1.111E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 91	3.880E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 91	1.147E+03	3.932E+02	1.333E+02	4.518E+01	1.531E+01	4.655E-07	1.869E-16	3.011E-35	0.000E+00	0.000E+00	0.000E+00
Y 91M	9.285E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 92	5.499E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 92	1.074E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 92	2.432E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 92	8.740E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 92	4.610E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Y 92	5.114E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 93	2.088E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 93	1.314E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 93	6.066E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 93	8.356E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 93	4.202E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 93	8.215E-06	8.265E-06	8.265E-06	8.265E-06	8.265E-06	8.265E-06	8.265E-06	8.265E-06	8.265E-06	8.265E-06	8.265E-06
NB 93M	1.067E-07	2.570E-07	4.053E-07	5.518E-07	6.964E-07	2.776E-06	4.845E-06	7.692E-06	9.401E-06	1.043E-05	1.113E-05
BR 94	2.163E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 94	4.276E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 94	4.286E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 94	6.396E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 94	9.134E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 94	2.301E-08	2.301E-08	2.301E-08	2.301E-08	2.301E-08	2.301E-08	2.301E-08	2.300E-08	2.299E-08	2.298E-08	2.297E-08
BR 95	1.321E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 95	6.451E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:17

* 1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
RB 95	2.150E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 95	9.335E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 95	7.619E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 95	1.820E+03	6.770E+02	2.517E+02	9.361E+01	3.481E+01	4.653E-06	1.189E-14	7.771E-32	0.000E+00	0.000E+00	0.000E+00
NB 95	1.144E+03	9.797E+02	4.559E+02	1.846E+02	7.116E+01	9.783E-06	2.501E-14	1.634E-31	0.000E+00	0.000E+00	0.000E+00
NB 95M	3.593E+00	1.378E+00	5.123E-01	1.905E-01	7.084E-02	9.469E-09	2.420E-17	1.581E-34	0.000E+00	0.000E+00	0.000E+00
BR 96	8.821E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 96	8.547E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 96	7.733E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 96	4.867E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 96	1.242E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 96	4.572E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 97	6.505E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 97	1.237E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 97	4.375E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 97	8.486E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 97	2.876E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

NB 97	3.697E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 97M	2.303E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 98	6.474E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 98	3.461E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 98	1.324E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 98	9.453E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 98	2.945E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 98	6.868E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 98M	7.348E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 99	2.930E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 99	5.760E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 99	4.253E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 99	7.762E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 99	5.162E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 99M	2.263E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 99	1.855E+03	1.875E-07	1.894E-17	1.913E-27	1.933E-37	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC 99	2.426E-04	2.536E-04	2.536E-04	2.536E-04	2.536E-04	2.536E-04	2.536E-04	2.536E-04	2.536E-04	2.536E-04	2.536E-04
TC 99M	4.262E+02	4.740E-08	4.788E-18	4.838E-28	4.860E-38	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB100	3.415E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR100	8.316E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y100	3.009E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR100	4.096E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB100	7.186E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB100M	6.290E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC100	5.805E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR101	1.817E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y101	7.894E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR101	6.126E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB101	6.538E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO101	5.882E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC101	2.471E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR102	1.272E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y102	2.683E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR102	2.326E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 90

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:17

* 1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
NB102	9.867E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO102	8.441E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC102	4.727E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC102M	6.388E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH102	2.124E-05	2.001E-05	1.885E-05	1.775E-05	1.672E-05	6.428E-06	1.946E-06	1.783E-07	1.633E-08	1.496E-09	8.915E-11
SR103	5.647E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y103	2.885E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR103	1.510E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB103	4.675E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO103	5.270E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC103	2.850E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU103	9.386E+02	1.874E+02	3.741E+01	7.469E+00	1.491E+00	9.496E-12	9.607E-26	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH103M	5.817E+01	1.162E+01	2.320E+00	4.633E-01	9.249E-02	5.890E-13	5.958E-27	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR104	1.758E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y104	3.003E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR104	2.159E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB104	3.223E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO104	1.644E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC104	6.156E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH104	9.227E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH104M	9.380E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y105	1.468E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR105	4.787E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB105	7.590E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO105	3.099E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC105	2.218E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU105	1.423E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH105	2.467E+02	6.353E-17	1.402E-35	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH105M	4.340E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR106	5.631E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB106	3.138E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO106	8.095E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC106	2.673E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU106	9.883E-01	8.322E-01	7.008E-01	5.901E-01	4.969E-01	3.175E-02	1.020E-03	1.050E-06	1.088E-09	1.122E-12	3.358E-16
RH106	3.076E+02	1.342E+02	1.130E+02	9.519E+01	8.015E+01	5.121E+00	1.645E-01	1.697E-04	1.755E-07	1.811E-10	5.417E-14
RH106M	1.431E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR107	4.116E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB107	3.846E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO107	5.412E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC107	9.113E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU107	7.331E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH107	4.096E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PD107	1.037E-07	1.037E-07	1.037E-07	1.037E-07	1.037E-07	1.037E-07	1.037E-07	1.037E-07	1.037E-07	1.037E-07	1.037E-07
PD107M	7.669E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR108	9.668E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB108	1.738E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO108	1.569E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC108	8.968E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU108	1.685E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH108	7.683E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH108M	9.613E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 91

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:17

* 1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
AG108M	3.139E-09	3.135E-09	3.131E-09	3.126E-09	3.122E-09	3.055E-09	2.972E-09	2.815E-09	2.665E-09	2.524E-09	2.366E-09
ZR109	9.816E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB109	2.809E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO109	1.004E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC109	3.852E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU109	4.950E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH109	2.731E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH109M	2.678E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD109	9.722E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD109M	2.015E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG109M	1.884E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB110	4.438E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO110	2.020E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC110	1.935E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU110	1.543E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH110	3.834E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH110M	1.487E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG110	1.140E+01	6.644E-04	5.158E-04	4.004E-04	3.108E-04	5.400E-06	3.407E-08	1.356E-12	5.397E-17	2.148E-21	1.380E-26
AG110M	1.496E-01	1.161E-01	9.013E-02	6.997E-02	5.431E-02	9.437E-04	5.953E-06	2.370E-10	9.432E-15	3.754E-19	2.412E-24
NB111	3.272E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO111	6.931E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC111	6.770E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU111	1.807E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH111	1.568E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PD111	6.250E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD111M	4.511E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG111	2.526E+01	5.177E-03	1.058E-06	2.163E-10	4.421E-14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG111M	4.510E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO112	1.016E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC112	3.774E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU112	7.112E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH112	1.799E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD112	7.146E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG112	9.675E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO113	1.069E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC113	8.553E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU113	8.259E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH113	1.082E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD113	8.034E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG113	3.839E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG113M	4.819E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD113M	2.365E-03	2.343E-03	2.315E-03	2.288E-03	2.261E-03	1.869E-03	1.474E-03	9.167E-04	5.700E-04	3.544E-04	2.023E-04
MO114	8.893E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC114	2.719E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU114	3.055E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH114	1.186E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD114	3.713E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG114	6.545E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO115	8.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC115	4.870E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU115	2.473E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 92

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:17

* 1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
RH115	7.748E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD115	8.599E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG115	4.279E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG115M	1.797E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD115	1.675E+01	7.742E-12	3.560E-24	1.637E-36	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD115M	1.360E+00	3.291E-01	7.961E-02	1.926E-02	4.658E-03	6.396E-13	3.007E-25	0.000E+00	0.000E+00	0.000E+00	0.000E+00

IN115M	1.055E+01	1.237E-05	2.991E-06	7.235E-07	1.750E-07	2.404E-17	1.130E-29	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC116	3.949E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU116	4.254E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH116	5.797E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD116	4.163E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG116	4.933E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG116M	5.777E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN116	6.484E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN116M	1.027E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC117	1.440E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU117	1.037E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH117	3.092E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD117	8.573E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG117	3.592E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG117M	3.767E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD117	2.307E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD117M	1.410E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN117	1.331E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN117M	1.413E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN117M	3.808E-04	4.148E-06	4.519E-08	4.924E-10	5.365E-12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU118	4.987E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH118	5.863E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD118	4.720E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG118	6.333E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG118M	2.808E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD118	1.277E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN118	5.925E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN118M	2.315E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH119	3.021E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD119	5.628E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG119	8.161E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD119	2.648E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD119M	2.955E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN119	1.113E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN119M	3.064E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN119M	8.462E-03	6.536E-03	5.048E-03	3.899E-03	3.011E-03	4.828E-05	2.755E-07	8.969E-12	2.920E-16	9.506E-21	4.816E-26
RU120	1.248E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH120	7.822E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD120	1.751E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG120	5.031E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD120	2.717E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN120	5.680E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN120M	3.928E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

RH121	1.043E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD121	1.157E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:17

* 1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
AG121	5.392E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD121	8.005E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN121	4.907E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN121M	1.289E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN121	6.139E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN121M	9.099E-06	9.067E-06	9.036E-06	9.005E-06	8.974E-06	8.489E-06	7.920E-06	6.895E-06	6.002E-06	5.224E-06	4.436E-06
RH122	1.619E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD122	2.709E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG122	5.164E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD122	4.087E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN122	1.388E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN122M	5.489E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB122	2.391E-01	1.580E-11	1.045E-21	6.905E-32	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB122M	3.554E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH123	1.207E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD123	9.366E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG123	2.190E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD123	9.177E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN123	5.748E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN123M	2.666E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN123	1.422E+00	8.713E-01	5.338E-01	3.270E-01	2.003E-01	7.885E-05	4.371E-09	1.344E-17	4.130E-26	1.269E-34	0.000E+00
SN123M	1.756E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE123M	6.139E-06	3.618E-06	2.132E-06	1.256E-06	7.402E-07	1.565E-10	3.988E-15	2.590E-24	1.682E-33	0.000E+00	0.000E+00
PD124	1.354E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG124	1.385E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD124	5.784E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN124	1.769E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB124	1.466E-01	5.122E-02	1.790E-02	6.254E-03	2.185E-03	1.080E-10	7.957E-20	4.320E-38	0.000E+00	0.000E+00	0.000E+00
SB124M	3.777E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG125	3.366E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD125	6.795E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

IN125	7.398E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN125M	5.455E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN125	2.369E+01	3.334E-02	4.709E-05	6.628E-08	9.326E-11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN125M	4.071E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB125	1.763E+00	1.757E+00	1.651E+00	1.550E+00	1.456E+00	5.353E-01	1.532E-01	1.254E-02	1.027E-03	8.409E-05	4.388E-06
TE125M	4.828E-02	8.983E-02	9.973E-02	9.884E-02	9.458E-02	3.511E-02	1.005E-02	8.227E-04	6.737E-05	5.516E-06	2.879E-07
PD126	2.194E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG126	1.350E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD126	3.822E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN126	2.778E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN126	3.012E-05	3.012E-05	3.012E-05	3.012E-05	3.012E-05	3.012E-05	3.012E-05	3.012E-05	3.012E-05	3.012E-05	3.011E-05
SB126	3.203E+00	1.948E-02	1.801E-04	6.318E-05	6.247E-05	6.248E-05	6.247E-05	6.247E-05	6.247E-05	6.246E-05	6.246E-05
SB126M	1.246E+00	3.075E-04	3.075E-04	3.075E-04	3.075E-04	3.075E-04	3.075E-04	3.075E-04	3.075E-04	3.075E-04	3.074E-04
CD127	2.895E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN127	1.181E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN127M	1.236E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN127	2.590E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN127M	7.912E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB127	1.635E+02	1.201E-05	8.688E-13	6.286E-20	4.548E-27	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE127	3.400E+01	1.200E+00	6.716E-01	3.758E-01	2.103E-01	1.941E-05	1.756E-10	1.438E-20	1.177E-30	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 94

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:17

* 1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
TE127M	7.958E-01	4.881E-01	2.731E-01	1.528E-01	8.551E-02	7.894E-06	7.143E-11	5.848E-21	4.788E-31	3.884E-41	0.000E+00
AG128	5.290E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD128	8.953E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN128	3.081E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN128	2.296E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB128	6.631E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB128M	8.864E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I128	7.198E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD129	5.607E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN129	1.928E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN129	4.487E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN129M	6.172E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB129	9.801E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

TE129	3.009E+02	3.471E+00	5.277E-01	8.022E-02	1.219E-02	9.921E-16	4.311E-32	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE129M	1.711E+01	2.617E+00	3.979E-01	6.048E-02	9.194E-03	7.480E-16	3.250E-32	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I129	4.377E-07	4.617E-07	4.651E-07	4.656E-07	4.657E-07	4.657E-07	4.657E-07	4.657E-07	4.657E-07	4.657E-07	4.657E-07
CD130	5.270E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN130	2.926E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN130	8.256E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB130	6.302E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB130M	3.056E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I130	1.007E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I130M	4.954E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD131	1.340E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN131	1.100E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN131	1.802E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB131	3.758E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE131	1.811E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE131M	3.916E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I131	9.929E+02	3.898E-01	1.487E-04	5.669E-08	2.162E-11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE131M	2.837E+00	4.408E-02	2.272E-04	1.117E-06	5.468E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD132	1.123E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN132	4.802E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN132	7.334E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB132	3.831E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB132M	2.411E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE132	8.605E+02	3.149E-06	1.152E-14	4.214E-23	1.541E-31	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I132	7.216E+03	2.692E-05	9.848E-14	3.602E-22	1.318E-30	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS132	2.085E-02	1.184E-06	6.729E-11	3.823E-15	2.172E-19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN133	4.673E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN133	5.467E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB133	4.538E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE133	3.939E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE133M	4.558E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I133	3.897E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I133M	1.516E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE133	6.719E+02	4.776E-03	2.746E-08	1.579E-13	9.076E-19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE133M	2.693E+01	1.237E-11	3.467E-24	9.713E-37	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN134	2.965E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN134	5.773E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB134	8.977E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
SB134M	8.487E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE134	4.158E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I134	1.387E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I134M	1.118E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE134M	3.865E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS134	5.520E+00	5.077E+00	4.668E+00	4.291E+00	3.945E+00	1.028E+00	1.915E-01	6.641E-03	2.303E-04	7.987E-06	1.512E-07
CS134M	9.550E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN135	9.406E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB135	5.878E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE135	5.558E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I135	6.918E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE135	5.534E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE135M	3.667E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS135	4.413E-06	4.504E-06	4.504E-06	4.504E-06	4.504E-06	4.504E-06	4.504E-06	4.504E-06	4.504E-06	4.504E-06	4.504E-06
CS135M	1.614E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA135M	1.545E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN136	6.925E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB136	1.512E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE136	2.865E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I136	7.388E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I136M	3.998E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS136	3.919E+01	3.127E-01	2.496E-03	1.991E-05	1.589E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA136M	5.728E+00	4.571E-02	3.648E-04	2.911E-06	2.323E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB137	1.870E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE137	1.164E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I137	6.337E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE137	6.608E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS137	4.042E+00	4.019E+00	3.995E+00	3.972E+00	3.950E+00	3.601E+00	3.208E+00	2.546E+00	2.021E+00	1.604E+00	1.221E+00
BA137M	1.375E+01	1.350E+01	1.342E+01	1.334E+01	1.326E+01	1.209E+01	1.077E+01	8.551E+00	6.786E+00	5.386E+00	4.101E+00
SB138	2.924E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE138	2.490E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I138	3.706E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE138	6.055E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS138	1.305E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS138M	1.398E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB139	1.868E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE139	7.014E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I139	1.804E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

XE139	7.195E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS139	6.958E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA139	3.340E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE140	6.958E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I140	6.463E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE140	4.150E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS140	1.278E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA140	1.527E+03	1.083E+01	7.678E-02	5.444E-04	3.860E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA140	9.237E+03	7.486E+01	5.308E-01	3.764E-03	2.669E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR140	1.234E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE141	4.403E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I141	1.025E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE141	2.473E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 96

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:17

* 1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
CS141	7.676E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA141	5.609E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA141	3.227E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE141	6.429E+02	9.240E+01	1.319E+01	1.882E+00	2.687E-01	7.972E-15	9.818E-32	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE142	3.404E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I142	1.893E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE142	6.612E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS142	6.966E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA142	4.612E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA142	1.144E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR142	5.027E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR142M	3.094E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I143	9.485E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE143	1.631E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS143	2.953E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA143	7.492E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA143	6.183E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE143	2.237E+03	2.300E-17	2.349E-37	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR143	9.021E+02	9.547E+00	8.984E-02	8.454E-04	7.956E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I144	9.981E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

XE144	2.027E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS144	1.088E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA144	3.752E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA144	9.717E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE144	6.837E+01	5.473E+01	4.380E+01	3.506E+01	2.806E+01	7.960E-01	9.266E-03	1.256E-06	1.702E-10	2.306E-14	6.291E-19
PR144	7.705E+02	6.065E+02	4.854E+02	3.885E+02	3.110E+02	8.821E+00	1.027E-01	1.392E-05	1.886E-09	2.556E-13	6.971E-18
PR144M	4.246E-01	3.387E-01	2.711E-01	2.170E-01	1.737E-01	4.927E-03	5.736E-05	7.773E-09	1.053E-12	1.428E-16	3.894E-21
XE145	3.065E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS145	2.053E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA145	3.524E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA145	5.135E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE145	3.153E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR145	1.468E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE146	1.652E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS146	4.271E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA146	7.835E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA146	5.279E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE146	7.264E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR146	4.253E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM146	5.986E-05	5.800E-05	5.621E-05	5.446E-05	5.277E-05	3.188E-05	1.698E-05	4.814E-06	1.365E-06	3.871E-07	8.750E-08
XE147	2.097E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS147	5.956E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA147	3.385E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA147	1.773E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE147	2.660E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR147	2.013E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND147	5.015E+02	1.642E+00	5.372E-03	1.756E-05	5.749E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM147	4.088E+00	4.640E+00	4.346E+00	4.068E+00	3.808E+00	1.323E+00	3.532E-01	2.515E-02	1.791E-03	1.275E-04	5.644E-06
SM147	1.546E-10	4.419E-10	7.196E-10	9.795E-10	1.223E-09	3.548E-09	4.456E-09	4.763E-09	4.785E-09	4.787E-09	4.787E-09
CS148	5.078E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA148	4.159E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 97

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:17

* 1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
LA148	1.044E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE148	8.754E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PR148	2.769E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM148	1.578E+02	2.148E-01	4.613E-02	9.963E-03	2.152E-03	4.817E-14	2.346E-27	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM148M	2.892E+01	6.245E+00	1.349E+00	2.912E-01	6.290E-02	1.408E-12	6.858E-26	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA149	7.531E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA149	1.949E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE149	1.198E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR149	9.206E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND149	5.924E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM149	2.579E+02	9.953E-11	3.717E-23	1.388E-35	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS150	5.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA150	4.447E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA150	5.324E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE150	3.112E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR150	1.285E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM150	1.088E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA151	5.644E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE151	1.848E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR151	5.063E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND151	4.448E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM151	1.867E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM151	6.983E-03	7.185E-03	7.171E-03	7.157E-03	7.144E-03	6.927E-03	6.665E-03	6.171E-03	5.714E-03	5.290E-03	4.830E-03
BA152	1.467E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA152	9.018E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE152	2.985E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR152	3.649E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND152	1.124E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM152	3.523E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM152M	5.602E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU152	1.294E-03	1.278E-03	1.262E-03	1.246E-03	1.230E-03	1.003E-03	7.776E-04	4.671E-04	2.806E-04	1.685E-04	9.237E-05
EU152M	5.539E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA153	8.227E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE153	9.268E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR153	9.085E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND153	2.412E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM153	9.715E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM153	5.659E+01	4.220E-13	3.141E-27	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD153	6.393E-05	4.922E-05	3.789E-05	2.917E-05	2.246E-05	3.421E-07	1.831E-09	5.241E-14	1.501E-18	4.296E-23	1.871E-28
LA154	5.025E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE154	8.418E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR154	3.085E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND154	5.680E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM154	1.680E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM154M	2.523E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

EU154	2.575E-01	2.524E-01	2.473E-01	2.424E-01	2.376E-01	1.721E-01	1.150E-01	5.137E-02	2.294E-02	1.025E-02	3.959E-03
CE155	1.557E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR155	5.181E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND155	5.002E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM155	7.316E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM155	4.069E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 98

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:17

* 1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
EU155	6.061E-02	5.857E-02	5.656E-02	5.462E-02	5.274E-02	3.015E-02	1.499E-02	3.705E-03	9.158E-04	2.264E-04	4.350E-05
CE156	1.249E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR156	1.356E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND156	1.079E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM156	5.838E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM156	1.024E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU156	8.531E+01	1.338E+00	2.071E-02	3.207E-04	4.964E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE157	1.403E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR157	2.002E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND157	5.762E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM157	2.162E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM157	2.232E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU157	1.215E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR158	2.087E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND158	7.006E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM158	1.035E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM158	5.239E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU158	1.690E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR159	7.727E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND159	1.200E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM159	1.918E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM159	6.401E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU159	6.240E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD159	2.216E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND160	9.865E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM160	5.428E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM160	2.242E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

EU160	4.210E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB160	2.687E-02	1.120E-02	4.666E-03	1.944E-03	8.103E-04	6.696E-10	1.669E-17	1.036E-32	0.000E+00	0.000E+00	0.000E+00
ND161	1.135E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM161	6.160E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM161	9.577E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU161	1.686E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD161	1.138E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB161	2.974E-01	3.172E-05	3.383E-09	3.607E-13	3.846E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM162	4.781E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM162	1.335E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU162	9.684E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD162	3.071E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB162	8.338E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB162M	2.709E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM163	2.933E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU163	2.310E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD163	3.565E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB163	2.331E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM164	2.453E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU164	8.043E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD164	1.011E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB164	2.671E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM165	2.498E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU165	1.244E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 99

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:17

* 1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
GD165	8.279E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB165	9.138E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY165	7.337E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY165M	5.620E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY166	6.400E-03	5.148E-11	4.140E-19	3.330E-27	2.679E-35	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HO166	2.525E-02	2.815E-10	2.264E-18	1.821E-26	1.465E-34	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HO166M	1.989E-08	1.989E-08	1.988E-08	1.988E-08	1.988E-08	1.983E-08	1.978E-08	1.966E-08	1.955E-08	1.944E-08	1.930E-08
SUMTOT	6.855E+05	3.578E+03	1.670E+03	9.257E+02	5.981E+02	5.282E+01	3.209E+01	2.451E+01	1.928E+01	1.521E+01	1.152E+01

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TOTAL      6.855E+05 3.578E+03 1.670E+03 9.257E+02 5.981E+02 5.282E+01 3.209E+01 2.451E+01 1.928E+01 1.521E+01 1.152E+01
                                                                                OUTPUT UNIT =  6                          PAGE  100
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:32:17

   *  1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240.
                                                                                                   FISSION PRODUCTS
   POWER= 1.00000E+00 MW,  BURNUP= 1.00000E+00 MWD,  FLUX= 1.00E+00 N/CM**2-SEC

                    9 SUMMARY TABLE:  THERMAL POWER,  WATTS
                          1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
 H        6.205E-04 6.119E-04 6.033E-04 5.949E-04 5.866E-04 4.687E-04 3.540E-04 2.019E-04 1.152E-04 6.571E-05 3.389E-05
 C        1.198E-09 1.198E-09 1.198E-09 1.198E-09 1.198E-09 1.198E-09 1.197E-09 1.195E-09 1.194E-09 1.193E-09 1.191E-09
 CO       3.825E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 NI       7.413E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 CU       5.748E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 ZN       3.568E+01 2.053E-16 1.334E-30 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 GA       2.307E+02 3.702E-15 2.405E-29 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 GE       8.624E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 AS       3.701E+03 1.618E-17 1.616E-34 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 SE       7.676E+03 3.792E-06 3.792E-06 3.792E-06 3.792E-06 3.791E-06 3.791E-06 3.791E-06 3.790E-06 3.790E-06 3.789E-06
 BR       2.264E+04 5.693E-19 1.168E-37 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 KR       2.931E+04 6.079E-01 5.981E-01 5.885E-01 5.791E-01 4.471E-01 3.236E-01 1.695E-01 8.880E-02 4.651E-02 2.169E-02
 RB       5.646E+04 6.092E-03 2.049E-04 6.890E-06 2.324E-07 7.446E-10 7.446E-10 7.446E-10 7.446E-10 7.446E-10 7.446E-10
 SR       4.478E+04 2.772E+02 8.173E+01 2.590E+01 9.943E+00 3.250E+00 2.885E+00 2.274E+00 1.792E+00 1.413E+00 1.067E+00
 Y        6.688E+04 4.105E+02 1.505E+02 6.235E+01 3.239E+01 1.552E+01 1.378E+01 1.086E+01 8.561E+00 6.747E+00 5.095E+00
 ZR       2.973E+04 6.770E+02 2.517E+02 9.361E+01 3.481E+01 1.292E-05 8.265E-06 8.265E-06 8.265E-06 8.265E-06 8.265E-06
 NB       5.839E+04 9.811E+02 4.564E+02 1.848E+02 7.123E+01 1.259E-05 4.868E-06 7.715E-06 9.424E-06 1.045E-05 1.115E-05
 MO       2.023E+04 1.875E-07 1.894E-17 1.913E-27 1.933E-37 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 TC       2.409E+04 2.537E-04 2.536E-04 2.536E-04 2.536E-04 2.536E-04 2.536E-04 2.536E-04 2.536E-04 2.536E-04 2.536E-04
 RU       4.314E+03 1.882E+02 3.811E+01 8.059E+00 1.988E+00 3.175E-02 1.020E-03 1.050E-06 1.088E-09 1.122E-12 3.358E-16
 RH       3.570E+03 1.459E+02 1.154E+02 9.565E+01 8.025E+01 5.121E+00 1.645E-01 1.699E-04 1.918E-07 1.677E-09 8.920E-11
 PD       6.546E+02 1.037E-07 1.037E-07 1.037E-07 1.037E-07 1.037E-07 1.037E-07 1.037E-07 1.037E-07 1.037E-07 1.037E-07
 AG       8.764E+02 1.220E-01 9.065E-02 7.037E-02 5.462E-02 9.491E-04 5.991E-06 3.149E-09 2.756E-09 2.610E-09 2.447E-09
 CD       5.782E+02 3.314E-01 8.192E-02 2.154E-02 6.918E-03 1.869E-03 1.474E-03 9.167E-04 5.700E-04 3.544E-04 2.023E-04
 IN       2.319E+03 1.237E-05 2.991E-06 7.235E-07 1.750E-07 2.590E-15 2.566E-15 2.566E-15 2.566E-15 2.566E-15 2.566E-15
 SN       5.699E+03 9.112E-01 5.389E-01 3.309E-01 2.034E-01 1.657E-04 3.832E-05 3.701E-05 3.612E-05 3.534E-05 3.455E-05
 SB       2.283E+04 1.828E+00 1.669E+00 1.557E+00 1.459E+00 5.356E-01 1.535E-01 1.291E-02 1.397E-03 4.540E-04 3.743E-04
 TE       2.598E+04 7.866E+00 1.970E+00 7.682E-01 4.117E-01 3.514E-02 1.005E-02 8.227E-04 6.737E-05 5.516E-06 2.879E-07
 I        5.717E+04 3.898E-01 1.491E-04 5.223E-07 4.657E-07 4.657E-07 4.657E-07 4.657E-07 4.657E-07 4.657E-07 4.657E-07
 XE       2.899E+04 4.886E-02 2.273E-04 1.117E-06 5.468E-09 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 CS       5.191E+04 9.408E+00 8.666E+00 8.264E+00 7.895E+00 4.629E+00 3.400E+00 2.553E+00 2.021E+00 1.604E+00 1.221E+00
 BA       3.105E+04 2.437E+01 1.349E+01 1.334E+01 1.326E+01 1.209E+01 1.077E+01 8.551E+00 6.786E+00 5.386E+00 4.101E+00
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LA	5.329E+04	7.486E+01	5.308E-01	3.764E-03	2.669E-05	4.657E-14	4.657E-14	4.657E-14	4.657E-14	4.657E-14	4.657E-14
CE	1.210E+04	1.471E+02	5.699E+01	3.694E+01	2.833E+01	7.960E-01	9.266E-03	1.256E-06	1.702E-10	2.306E-14	6.291E-19
PR	1.539E+04	6.163E+02	4.858E+02	3.887E+02	3.111E+02	8.826E+00	1.027E-01	1.392E-05	1.887E-09	2.557E-13	6.975E-18
ND	2.016E+03	1.642E+00	5.372E-03	1.756E-05	5.749E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM	1.461E+03	1.110E+01	5.741E+00	4.369E+00	3.873E+00	1.323E+00	3.532E-01	2.515E-02	1.792E-03	1.279E-04	5.732E-06
SM	1.448E+02	7.185E-03	7.171E-03	7.157E-03	7.144E-03	6.927E-03	6.665E-03	6.171E-03	5.714E-03	5.290E-03	4.830E-03
EU	1.282E+02	1.650E+00	3.259E-01	2.986E-01	2.915E-01	2.032E-01	1.308E-01	5.554E-02	2.414E-02	1.064E-02	4.095E-03
GD	4.201E+00	4.922E-05	3.789E-05	2.917E-05	2.246E-05	3.421E-07	1.831E-09	5.255E-14	1.460E-16	1.512E-16	1.558E-16
TB	1.777E+00	1.123E-02	4.666E-03	1.944E-03	8.103E-04	6.696E-10	1.669E-17	1.036E-32	0.000E+00	0.000E+00	0.000E+00
DY	8.539E-02	5.148E-11	4.140E-19	3.330E-27	2.679E-35	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HO	2.525E-02	2.017E-08	1.988E-08	1.988E-08	1.988E-08	1.983E-08	1.978E-08	1.966E-08	1.955E-08	1.944E-08	1.930E-08
SUMTOT	6.855E+05	3.578E+03	1.670E+03	9.257E+02	5.981E+02	5.282E+01	3.209E+01	2.451E+01	1.928E+01	1.521E+01	1.152E+01
TOTAL	6.855E+05	3.578E+03	1.670E+03	9.257E+02	5.981E+02	5.282E+01	3.209E+01	2.451E+01	1.928E+01	1.521E+01	1.152E+01

CUMULATIVE TABLE TOTALS

AP+FP	6.858E+05	3.596E+03	1.678E+03	9.287E+02	5.994E+02	5.291E+01	3.213E+01	2.452E+01	1.929E+01	1.521E+01	1.152E+01
ACT+FP	7.317E+05	3.581E+03	1.673E+03	9.284E+02	6.008E+02	5.560E+01	3.502E+01	2.762E+01	2.251E+01	1.849E+01	1.482E+01
AP+ACT+FP	7.320E+05	3.598E+03	1.680E+03	9.314E+02	6.021E+02	5.569E+01	3.505E+01	2.763E+01	2.251E+01	1.849E+01	1.482E+01

OUTPUT UNIT = 6 PAGE 101

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:17

1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

(ALPHA,N) NEUTRON SOURCE, NEUTRONS/SEC

BASIS= 1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
U234	2.404E+02	2.404E+02	2.404E+02	2.404E+02	2.404E+02	2.405E+02	2.405E+02	2.406E+02	2.407E+02	2.408E+02	2.409E+02
U238	1.045E+02	1.045E+02	1.045E+02	1.045E+02	1.045E+02	1.045E+02	1.045E+02	1.045E+02	1.045E+02	1.045E+02	1.045E+02
PU238	6.260E+03	6.683E+03	6.674E+03	6.664E+03	6.653E+03	6.451E+03	6.201E+03	5.730E+03	5.295E+03	4.893E+03	4.457E+03
PU239	4.200E+04	4.376E+04	4.376E+04	4.376E+04	4.376E+04	4.376E+04	4.375E+04	4.374E+04	4.373E+04	4.371E+04	4.370E+04
PU240	1.089E+04	1.089E+04	1.089E+04	1.089E+04	1.089E+04	1.089E+04	1.088E+04	1.087E+04	1.086E+04	1.085E+04	1.083E+04
AM241	1.028E+02	4.318E+02	7.567E+02	1.078E+03	1.395E+03	5.963E+03	1.052E+04	1.679E+04	2.051E+04	2.264E+04	2.393E+04
CM242	5.653E+03	4.004E+03	2.717E+03	1.844E+03	1.252E+03	4.127E+00	1.563E+00	1.492E+00	1.426E+00	1.362E+00	1.291E+00

TOTALS											
TABLE	6.529E+04	6.616E+04	6.519E+04	6.463E+04	6.434E+04	6.745E+04	7.174E+04	7.752E+04	8.077E+04	8.247E+04	8.331E+04
ACTUAL	6.529E+04	6.616E+04	6.519E+04	6.463E+04	6.434E+04	6.745E+04	7.174E+04	7.752E+04	8.077E+04	8.247E+04	8.331E+04

OUTPUT UNIT = 6 PAGE 102

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:17

1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

SPONTANEOUS FISSION NEUTRON SOURCE, NEUTRONS/SEC

BASIS= 1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
U238	1.254E+04	1.254E+04	1.254E+04	1.254E+04	1.254E+04	1.254E+04	1.254E+04	1.254E+04	1.254E+04	1.254E+04	1.254E+04
PU238	1.021E+03	1.090E+03	1.088E+03	1.087E+03	1.085E+03	1.052E+03	1.011E+03	9.345E+02	8.635E+02	7.979E+02	7.269E+02
PU240	5.742E+04	5.742E+04	5.742E+04	5.741E+04	5.741E+04	5.739E+04	5.736E+04	5.730E+04	5.724E+04	5.718E+04	5.710E+04
PU242	3.496E+02	3.496E+02	3.496E+02	3.496E+02	3.496E+02	3.496E+02	3.496E+02	3.496E+02	3.496E+02	3.496E+02	3.496E+02
CM242	2.743E+04	1.943E+04	1.318E+04	8.948E+03	6.074E+03	2.002E+01	7.586E+00	7.240E+00	6.917E+00	6.609E+00	6.263E+00
CM244	4.260E+02	4.233E+02	4.192E+02	4.153E+02	4.113E+02	3.529E+02	2.914E+02	1.988E+02	1.356E+02	9.244E+01	5.885E+01
TOTALS											
TABLE	9.921E+04	9.127E+04	8.502E+04	8.078E+04	7.790E+04	7.173E+04	7.159E+04	7.136E+04	7.117E+04	7.100E+04	7.082E+04
ACTUAL	9.921E+04	9.127E+04	8.502E+04	8.078E+04	7.790E+04	7.173E+04	7.159E+04	7.136E+04	7.117E+04	7.100E+04	7.082E+04
OVERALL TOTALS											
TABLE	1.645E+05	1.574E+05	1.502E+05	1.454E+05	1.422E+05	1.392E+05	1.433E+05	1.489E+05	1.519E+05	1.535E+05	1.541E+05
ACTUAL	1.645E+05	1.574E+05	1.502E+05	1.454E+05	1.422E+05	1.392E+05	1.433E+05	1.489E+05	1.519E+05	1.535E+05	1.541E+05

OUTPUT UNIT = 6 PAGE 103

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:17

PHOTON SPECTRUM FOR ACTIVATION PRODUCTS

1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240
POWER= 1.00 MW, BURNUP= 1. MWD, FLUX= 1.00E+00 N/CM**2-SEC

18 GROUP PHOTON RELEASE RATES, PHOTONS/SECOND
BASIS= 1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

EMEAN	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
1.000E-02	5.865E+13	1.384E+12	5.722E+11	2.962E+11	1.805E+11	1.172E+10	3.021E+09	3.332E+08	7.114E+07	3.825E+07	3.202E+07
2.500E-02	3.741E+13	4.208E+12	2.875E+12	2.151E+12	1.654E+12	1.855E+11	4.892E+10	4.011E+09	3.328E+08	2.948E+07	3.186E+06
3.750E-02	5.374E+12	1.704E+11	1.460E+11	1.311E+11	1.207E+11	4.363E+10	1.250E+10	1.030E+09	8.655E+07	8.080E+06	1.088E+06
5.750E-02	1.203E+13	4.176E+11	1.072E+11	3.101E+10	1.091E+10	2.129E+08	7.090E+07	1.299E+07	3.264E+06	1.125E+06	5.482E+05
8.500E-02	5.687E+12	1.928E+10	7.857E+09	3.388E+09	1.586E+09	8.242E+07	2.993E+07	5.190E+06	1.203E+06	3.487E+05	1.212E+05
1.250E-01	6.907E+12	5.934E+11	1.376E+11	3.415E+10	1.025E+10	1.002E+09	2.891E+08	2.472E+07	2.310E+06	2.691E+05	3.595E+04
2.250E-01	3.598E+13	4.439E+11	1.167E+11	7.512E+10	5.653E+10	1.535E+10	4.394E+09	3.602E+08	2.959E+07	2.450E+06	1.343E+05
3.750E-01	2.825E+13	5.716E+11	3.295E+11	2.761E+11	2.532E+11	9.236E+10	2.643E+10	2.165E+09	1.776E+08	1.462E+07	7.805E+05
5.750E-01	5.170E+14	1.359E+12	6.195E+11	4.154E+11	3.450E+11	1.187E+11	3.396E+10	2.781E+09	2.277E+08	1.865E+07	9.735E+05
8.500E-01	6.232E+14	1.098E+14	4.713E+13	1.861E+13	7.133E+12	2.784E+09	5.411E+07	1.587E+06	4.234E+05	1.149E+05	2.575E+04
1.250E+00	3.540E+13	5.847E+11	5.593E+11	5.383E+11	5.192E+11	3.053E+11	1.582E+11	4.245E+10	1.139E+10	3.058E+09	6.477E+08
1.750E+00	1.047E+14	3.758E+09	1.517E+09	6.172E+08	2.513E+08	1.663E+02	2.815E+00	2.152E+00	1.696E+00	1.337E+00	1.010E+00
2.250E+00	1.157E+13	2.371E+08	9.386E+06	4.983E+06	3.491E+06	1.618E+06	8.384E+05	2.250E+05	6.039E+04	1.621E+04	3.433E+03
2.750E+00	2.864E+12	2.218E+04	1.353E+04	1.032E+04	9.022E+03	5.008E+03	2.594E+03	6.962E+02	1.869E+02	5.015E+01	1.062E+01

3.500E+00	1.378E+11	8.250E-15	8.250E-15	8.250E-15	8.250E-15	8.250E-15	8.250E-15	8.250E-15	8.250E-15	8.250E-15	8.250E-15
5.000E+00	1.890E+07	2.456E-15	2.456E-15	2.456E-15	2.456E-15	2.456E-15	2.456E-15	2.456E-15	2.456E-15	2.456E-15	2.456E-15
7.000E+00	4.348E+06	1.594E-16	1.594E-16	1.594E-16	1.594E-16	1.594E-16	1.594E-16	1.594E-16	1.594E-16	1.594E-16	1.594E-16
9.500E+00	2.339E+05	1.008E-17	1.008E-17	1.008E-17	1.008E-17	1.008E-17	1.008E-17	1.008E-17	1.008E-17	1.008E-17	1.008E-17
TOTAL	1.477E+15	1.195E+14	5.260E+13	2.256E+13	1.029E+13	7.767E+11	2.879E+11	5.318E+10	1.233E+10	3.171E+09	6.866E+08
MEV/SEC	1.108E+15	9.536E+13	4.137E+13	1.692E+13	7.069E+12	4.969E+11	2.300E+11	5.571E+10	1.446E+10	3.841E+09	8.110E+08

18 GROUP SPECIFIC ENERGY RELEASE RATES, MEV/WATT-SEC
BASIS= 1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

EMEAN	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
1.000E-02	5.865E+05	1.384E+04	5.722E+03	2.962E+03	1.805E+03	1.172E+02	3.021E+01	3.332E+00	7.114E-01	3.825E-01	3.202E-01
2.500E-02	9.351E+05	1.052E+05	7.187E+04	5.376E+04	4.135E+04	4.637E+03	1.223E+03	1.003E+02	8.319E+00	7.370E-01	7.965E-02
3.750E-02	2.015E+05	6.388E+03	5.474E+03	4.916E+03	4.525E+03	1.636E+03	4.687E+02	3.863E+01	3.245E+00	3.030E-01	4.081E-02
5.750E-02	6.916E+05	2.401E+04	6.163E+03	1.783E+03	6.274E+02	1.224E+01	4.077E+00	7.471E-01	1.877E-01	6.470E-02	3.152E-02
8.500E-02	4.834E+05	1.639E+03	6.678E+02	2.880E+02	1.348E+02	7.006E+00	2.544E+00	4.412E-01	1.022E-01	2.964E-02	1.030E-02
1.250E-01	8.634E+05	7.418E+04	1.722E+04	4.269E+03	1.281E+03	1.252E+02	3.614E+01	3.090E+00	2.888E-01	3.363E-02	4.493E-03
2.250E-01	8.097E+06	9.988E+04	2.625E+04	1.690E+04	1.272E+04	3.455E+03	9.886E+02	8.104E+01	6.658E+00	5.513E-01	3.023E-02
3.750E-01	7.593E+06	2.144E+05	1.236E+05	1.035E+05	9.493E+04	3.463E+04	9.912E+03	8.120E+02	6.659E+01	5.481E+00	2.927E-01
5.750E-01	2.973E+08	7.815E+05	3.562E+05	2.389E+05	1.984E+05	6.825E+04	1.953E+04	1.599E+03	1.309E+02	1.072E+01	5.598E-01
8.500E-01	5.297E+08	9.330E+07	4.006E+07	1.582E+07	6.063E+06	2.366E+03	4.599E+01	1.349E+00	3.599E-01	9.770E-02	2.189E-02
1.250E+00	4.425E+07	7.309E+05	6.991E+05	6.729E+05	6.491E+05	3.817E+05	1.977E+05	5.307E+04	1.424E+04	3.822E+03	8.096E+02
1.750E+00	1.832E+08	6.577E+03	2.655E+03	1.080E+03	4.397E+02	2.911E-04	4.927E-06	3.766E-06	2.968E-06	2.340E-06	1.767E-06
2.250E+00	2.603E+07	5.334E+02	2.112E+01	1.121E+01	7.856E+00	3.641E+00	1.886E+00	5.063E-01	1.359E-01	3.647E-02	7.724E-03
2.750E+00	7.877E+06	6.101E-02	3.722E-02	2.839E-02	2.481E-02	1.377E-02	7.134E-03	1.915E-03	5.139E-04	1.379E-04	2.921E-05
3.500E+00	4.824E+05	2.888E-20	2.888E-20	2.888E-20	2.888E-20	2.888E-20	2.888E-20	2.888E-20	2.888E-20	2.888E-20	2.888E-20
5.000E+00	9.451E+01	1.228E-20	1.228E-20	1.228E-20	1.228E-20	1.228E-20	1.228E-20	1.228E-20	1.228E-20	1.228E-20	1.228E-20
7.000E+00	3.044E+01	1.116E-21	1.116E-21	1.116E-21	1.116E-21	1.116E-21	1.116E-21	1.116E-21	1.116E-21	1.116E-21	1.116E-21
9.500E+00	2.223E+00	9.575E-23	9.575E-23	9.575E-23	9.575E-23	9.575E-23	9.575E-23	9.575E-23	9.575E-23	9.575E-23	9.575E-23
TOTAL	1.108E+09	9.536E+07	4.137E+07	1.692E+07	7.069E+06	4.969E+05	2.300E+05	5.571E+04	1.446E+04	3.841E+03	8.110E+02
GAM POW	1.777E+02	1.529E+01	6.632E+00	2.712E+00	1.133E+00	7.966E-02	3.686E-02	8.930E-03	2.318E-03	6.157E-04	1.300E-04

OUTPUT UNIT = 6

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:17

PRINCIPAL PHOTON SOURCES IN GROUP 1,PHOTONS/SEC
MEAN ENERGY= 0.010MEV

NUCLIDE	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y

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                PRINCIPAL PHOTON SOURCES IN GROUP  2,PHOTONS/SEC
                 MEAN ENERGY= 0.025MEV

NUCLIDE
        0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP  3,PHOTONS/SEC
                 MEAN ENERGY= 0.038MEV

NUCLIDE
        0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP  4,PHOTONS/SEC
                 MEAN ENERGY= 0.058MEV

NUCLIDE
        0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP  5,PHOTONS/SEC
                 MEAN ENERGY= 0.085MEV

NUCLIDE
        0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP  6,PHOTONS/SEC
                 MEAN ENERGY= 0.125MEV

NUCLIDE
        0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP  7,PHOTONS/SEC
                 MEAN ENERGY= 0.225MEV

NUCLIDE
        0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP  8,PHOTONS/SEC
                 MEAN ENERGY= 0.375MEV

NUCLIDE
        0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
                                                                                OUTPUT UNIT =  6                    PAGE  105
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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:32:17

                 PRINCIPAL PHOTON SOURCES IN GROUP  9,PHOTONS/SEC
                  MEAN ENERGY= 0.575MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                 PRINCIPAL PHOTON SOURCES IN GROUP 10,PHOTONS/SEC
                  MEAN ENERGY= 0.850MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                 PRINCIPAL PHOTON SOURCES IN GROUP 11,PHOTONS/SEC
                  MEAN ENERGY= 1.250MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
CO 60     5.894E+11 5.703E+11 5.519E+11 5.340E+11 5.168E+11 3.053E+11 1.582E+11 4.245E+10 1.139E+10 3.058E+09 6.477E+08

                 PRINCIPAL PHOTON SOURCES IN GROUP 12,PHOTONS/SEC
                  MEAN ENERGY= 1.750MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                 PRINCIPAL PHOTON SOURCES IN GROUP 13,PHOTONS/SEC
                  MEAN ENERGY= 2.250MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
CO 60     3.124E+06 3.023E+06 2.925E+06 2.830E+06 2.739E+06 1.618E+06 8.384E+05 2.250E+05 6.039E+04 1.621E+04 3.433E+03

                 PRINCIPAL PHOTON SOURCES IN GROUP 14,PHOTONS/SEC
                  MEAN ENERGY= 2.750MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
CO 60     9.666E+03 9.353E+03 9.051E+03 8.758E+03 8.475E+03 5.008E+03 2.594E+03 6.962E+02 1.869E+02 5.015E+01 1.062E+01

                 PRINCIPAL PHOTON SOURCES IN GROUP 15,PHOTONS/SEC
                  MEAN ENERGY= 3.500MEV
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```
NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                   PRINCIPAL PHOTON SOURCES IN GROUP 16,PHOTONS/SEC
                    MEAN ENERGY= 5.000MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
PB204     2.456E-15 2.456E-15 2.456E-15 2.456E-15 2.456E-15 2.456E-15 2.456E-15 2.456E-15 2.456E-15 2.456E-15 2.456E-15
                                                                                OUTPUT UNIT =  6                        PAGE  106
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:32:17

                   PRINCIPAL PHOTON SOURCES IN GROUP 17,PHOTONS/SEC
                    MEAN ENERGY= 7.000MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
PB204     1.594E-16 1.594E-16 1.594E-16 1.594E-16 1.594E-16 1.594E-16 1.594E-16 1.594E-16 1.594E-16 1.594E-16 1.594E-16

                   PRINCIPAL PHOTON SOURCES IN GROUP 18,PHOTONS/SEC
                    MEAN ENERGY= 9.500MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
                                                                                OUTPUT UNIT =  6                        PAGE  107
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:32:17
             PHOTON SPECTRUM FOR ACTINIDES + DAUGHTERS

                              1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240
                                 POWER=   1.00 MW, BURNUP=      1. MWD, FLUX= 1.00E+00 N/CM**2-SEC

                              18 GROUP PHOTON RELEASE RATES, PHOTONS/SECOND
                              BASIS=  1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240
 EMEAN
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
1.000E-02 3.676E+17 5.691E+11 2.742E+11 2.729E+11 2.729E+11 3.047E+11 3.418E+11 3.919E+11 4.206E+11 4.361E+11 4.442E+11
2.500E-02 1.847E+15 1.010E+10 1.028E+09 1.340E+09 1.649E+09 6.103E+09 1.055E+10 1.666E+10 2.028E+10 2.236E+10 2.362E+10
3.750E-02 1.861E+16 1.002E+09 4.283E+08 4.445E+08 4.633E+08 8.111E+08 1.170E+09 1.662E+09 1.951E+09 2.114E+09 2.210E+09
5.750E-02 7.744E+15 1.494E+11 1.250E+10 1.709E+10 2.164E+10 8.712E+10 1.525E+11 2.424E+11 2.956E+11 3.261E+11 3.447E+11
8.500E-02 2.013E+17 6.728E+10 1.427E+09 1.423E+09 1.425E+09 1.444E+09 1.463E+09 1.488E+09 1.502E+09 1.509E+09 1.512E+09
1.250E-01 1.596E+17 1.161E+11 7.368E+08 7.266E+08 7.263E+08 7.251E+08 7.242E+08 7.218E+08 7.188E+08 7.155E+08 7.114E+08
2.250E-01 1.110E+17 8.768E+10 7.031E+08 6.935E+08 6.914E+08 6.629E+08 6.341E+08 5.930E+08 5.673E+08 5.513E+08 5.399E+08
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3.750E-01	1.106E+16	5.460E+09	3.342E+08	3.343E+08	3.343E+08	3.348E+08	3.354E+08	3.366E+08	3.377E+08	3.388E+08	3.402E+08
5.750E-01	1.721E+15	3.550E+07	3.560E+07	3.567E+07	3.576E+07	3.751E+07	3.909E+07	4.084E+07	4.174E+07	4.221E+07	4.246E+07
8.500E-01	3.121E+15	7.145E+07	7.163E+07	7.168E+07	7.171E+07	7.234E+07	7.286E+07	7.338E+07	7.362E+07	7.373E+07	7.377E+07
1.250E+00	1.052E+14	6.676E+07	6.690E+07	6.691E+07	6.691E+07	6.692E+07	6.693E+07	6.693E+07	6.693E+07	6.693E+07	6.694E+07
1.750E+00	5.886E+11	1.139E+07	1.142E+07	1.142E+07	1.142E+07	1.148E+07	1.151E+07	1.152E+07	1.151E+07	1.151E+07	1.151E+07
2.250E+00	2.551E+04	2.388E+04	2.256E+04	2.167E+04	2.106E+04	1.990E+04	2.016E+04	2.102E+04	2.238E+04	2.423E+04	2.708E+04
2.750E+00	3.845E+04	7.673E+04	1.161E+05	1.561E+05	1.965E+05	7.450E+05	1.065E+06	1.132E+06	1.046E+06	9.524E+05	8.514E+05
3.500E+00	1.304E+04	1.219E+04	1.150E+04	1.103E+04	1.072E+04	1.007E+04	1.008E+04	1.010E+04	1.010E+04	1.010E+04	1.009E+04
5.000E+00	5.528E+03	5.161E+03	4.867E+03	4.668E+03	4.532E+03	4.250E+03	4.252E+03	4.252E+03	4.249E+03	4.243E+03	4.236E+03
7.000E+00	6.284E+02	5.859E+02	5.521E+02	5.292E+02	5.136E+02	4.808E+02	4.806E+02	4.800E+02	4.793E+02	4.785E+02	4.775E+02
9.500E+00	7.184E+01	6.691E+01	6.301E+01	6.036E+01	5.856E+01	5.474E+01	5.469E+01	5.458E+01	5.448E+01	5.438E+01	5.426E+01
TOTAL	8.837E+17	1.006E+12	2.916E+11	2.952E+11	3.000E+11	4.021E+11	5.093E+11	6.559E+11	7.417E+11	7.900E+11	8.181E+11
MEV/SEC	7.482E+16	5.676E+10	4.185E+09	4.441E+09	4.710E+09	8.916E+09	1.317E+10	1.900E+10	2.245E+10	2.441E+10	2.560E+10

18 GROUP SPECIFIC ENERGY RELEASE RATES, MEV/WATT-SEC
BASIS= 1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

ENEAN	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
1.000E-02	3.676E+09	8.691E+03	2.742E+03	2.729E+03	2.729E+03	3.047E+03	3.418E+03	3.919E+03	4.206E+03	4.361E+03	4.442E+03
2.500E-02	4.619E+07	2.525E+02	2.571E+01	3.351E+01	4.123E+01	1.526E+02	2.637E+02	4.166E+02	5.070E+02	5.590E+02	5.906E+02
3.750E-02	6.980E+08	3.756E+01	1.606E+01	1.667E+01	1.737E+01	3.042E+01	4.389E+01	6.234E+01	7.316E+01	7.927E+01	8.286E+01
5.750E-02	4.453E+08	8.590E+03	7.190E+02	9.828E+02	1.244E+03	5.009E+03	8.767E+03	1.394E+04	1.700E+04	1.875E+04	1.982E+04
8.500E-02	1.711E+10	5.719E+03	1.213E+02	1.210E+02	1.211E+02	1.228E+02	1.243E+02	1.265E+02	1.276E+02	1.282E+02	1.285E+02
1.250E-01	1.995E+10	1.451E+04	9.210E+01	9.083E+01	9.078E+01	9.063E+01	9.052E+01	9.022E+01	8.985E+01	8.944E+01	8.893E+01
2.250E-01	2.497E+10	1.973E+04	1.582E+02	1.560E+02	1.556E+02	1.491E+02	1.427E+02	1.334E+02	1.276E+02	1.240E+02	1.215E+02
3.750E-01	4.147E+09	2.047E+03	1.253E+02	1.253E+02	1.254E+02	1.256E+02	1.258E+02	1.262E+02	1.266E+02	1.271E+02	1.276E+02
5.750E-01	9.898E+08	2.041E+01	2.047E+01	2.051E+01	2.056E+01	2.157E+01	2.247E+01	2.348E+01	2.400E+01	2.427E+01	2.441E+01
8.500E-01	2.653E+09	6.073E+01	6.089E+01	6.093E+01	6.096E+01	6.149E+01	6.193E+01	6.237E+01	6.257E+01	6.267E+01	6.271E+01
1.250E+00	1.315E+08	8.345E+01	8.363E+01	8.364E+01	8.363E+01	8.365E+01	8.366E+01	8.366E+01	8.366E+01	8.367E+01	8.367E+01
1.750E+00	1.030E+06	1.993E+01	1.998E+01	1.999E+01	1.999E+01	2.008E+01	2.014E+01	2.016E+01	2.015E+01	2.014E+01	2.014E+01
2.250E+00	5.739E-02	5.373E-02	5.076E-02	4.875E-02	4.739E-02	4.478E-02	4.535E-02	4.730E-02	5.035E-02	5.452E-02	6.092E-02
2.750E+00	1.058E-01	2.110E-01	3.192E-01	4.294E-01	5.404E-01	2.049E+00	2.929E+00	3.114E+00	2.876E+00	2.619E+00	2.341E+00
3.500E+00	4.563E-02	4.265E-02	4.025E-02	3.862E-02	3.751E-02	3.524E-02	3.528E-02	3.534E-02	3.535E-02	3.534E-02	3.531E-02
5.000E+00	2.764E-02	2.580E-02	2.433E-02	2.334E-02	2.266E-02	2.125E-02	2.126E-02	2.126E-02	2.124E-02	2.122E-02	2.118E-02
7.000E+00	4.399E-03	4.101E-03	3.865E-03	3.704E-03	3.595E-03	3.366E-03	3.364E-03	3.360E-03	3.355E-03	3.349E-03	3.343E-03
9.500E+00	6.824E-04	6.357E-04	5.986E-04	5.734E-04	5.564E-04	5.201E-04	5.195E-04	5.185E-04	5.175E-04	5.166E-04	5.155E-04
TOTAL	7.482E+10	5.676E+04	4.185E+03	4.441E+03	4.710E+03	8.916E+03	1.317E+04	1.900E+04	2.245E+04	2.441E+04	2.560E+04
GAM POW	1.199E+04	9.099E-03	6.709E-04	7.119E-04	7.551E-04	1.429E-03	2.111E-03	3.046E-03	3.598E-03	3.914E-03	4.103E-03

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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:32:17

                PRINCIPAL PHOTON SOURCES IN GROUP  1,PHOTONS/SEC
                 MEAN ENERGY= 0.010MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP  2,PHOTONS/SEC
                 MEAN ENERGY= 0.025MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP  3,PHOTONS/SEC
                 MEAN ENERGY= 0.038MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP  4,PHOTONS/SEC
                 MEAN ENERGY= 0.058MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP  5,PHOTONS/SEC
                 MEAN ENERGY= 0.085MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP  6,PHOTONS/SEC
                 MEAN ENERGY= 0.125MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP  7,PHOTONS/SEC
                 MEAN ENERGY= 0.225MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
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                PRINCIPAL PHOTON SOURCES IN GROUP  8,PHOTONS/SEC
                 MEAN ENERGY= 0.375MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
                                                                                OUTPUT UNIT =  6                          PAGE  109
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:32:17

                PRINCIPAL PHOTON SOURCES IN GROUP  9,PHOTONS/SEC
                 MEAN ENERGY= 0.575MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 10,PHOTONS/SEC
                 MEAN ENERGY= 0.850MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 11,PHOTONS/SEC
                 MEAN ENERGY= 1.250MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 12,PHOTONS/SEC
                 MEAN ENERGY= 1.750MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 13,PHOTONS/SEC
                 MEAN ENERGY= 2.250MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 14,PHOTONS/SEC
                 MEAN ENERGY= 2.750MEV

NUCLIDE
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          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                    PRINCIPAL PHOTON SOURCES IN GROUP 15,PHOTONS/SEC
                     MEAN ENERGY= 3.500MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                    PRINCIPAL PHOTON SOURCES IN GROUP 16,PHOTONS/SEC
                     MEAN ENERGY= 5.000MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
                                                                          OUTPUT UNIT =  6                          PAGE  110
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:32:17

                    PRINCIPAL PHOTON SOURCES IN GROUP 17,PHOTONS/SEC
                     MEAN ENERGY= 7.000MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                    PRINCIPAL PHOTON SOURCES IN GROUP 18,PHOTONS/SEC
                     MEAN ENERGY= 9.500MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
                                                                          OUTPUT UNIT =  6                          PAGE  111
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:32:17
             PHOTON SPECTRUM FOR FISSION PRODUCTS

                              1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240
                                 POWER=   1.00 MW, BURNUP=      1. MWD, FLUX= 1.00E+00 N/CM**2-SEC

                               18 GROUP PHOTON RELEASE RATES, PHOTONS/SECOND
                               BASIS=  1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240
 EMEAN
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
1.000E-02 1.054E+17 6.746E+14 3.437E+14 2.265E+14 1.684E+14 1.356E+13 7.262E+12 5.491E+12 4.303E+12 3.386E+12 2.556E+12
2.500E-02 4.999E+16 3.193E+14 1.130E+14 6.491E+13 4.728E+13 6.838E+12 2.611E+12 1.174E+12 8.521E+11 6.650E+11 5.015E+11
3.750E-02 5.996E+16 8.343E+14 3.773E+14 2.615E+14 2.047E+14 1.554E+13 8.168E+12 6.066E+12 4.752E+12 3.753E+12 2.849E+12
5.750E-02 2.253E+16 1.240E+14 6.842E+13 4.676E+13 3.542E+13 2.720E+12 1.395E+12 1.041E+12 8.083E+11 6.333E+11 4.768E+11
8.500E-02 3.009E+16 1.489E+14 9.692E+13 7.338E+13 5.777E+13 3.074E+12 1.060E+12 6.822E+11 5.044E+11 3.892E+11 2.918E+11
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1.250E-01	6.055E+16	1.703E+15	4.946E+14	2.709E+14	1.988E+14	6.730E+12	9.217E+11	5.284E+11	3.685E+11	2.727E+11	1.983E+11
2.250E-01	1.838E+17	9.499E+13	4.604E+13	3.063E+13	2.297E+13	1.933E+12	8.720E+11	5.862E+11	4.495E+11	3.510E+11	2.637E+11
3.750E-01	1.366E+17	1.012E+14	3.085E+13	2.236E+13	1.815E+13	3.076E+12	9.985E+11	3.162E+11	2.106E+11	1.626E+11	1.225E+11
5.750E-01	2.697E+17	2.281E+15	7.068E+14	3.832E+14	2.967E+14	1.323E+14	1.067E+14	8.325E+13	6.599E+13	5.237E+13	3.987E+13
8.500E-01	3.029E+17	1.121E+16	4.790E+15	1.897E+15	7.331E+14	3.908E+12	9.130E+11	1.757E+11	8.774E+10	5.311E+10	3.262E+10
1.250E+00	1.878E+17	4.293E+13	2.524E+13	1.844E+13	1.453E+13	1.188E+12	3.341E+11	1.357E+11	6.745E+10	3.592E+10	1.881E+10
1.750E+00	6.670E+16	1.467E+14	2.811E+12	1.478E+12	1.220E+12	7.990E+10	1.247E+10	5.756E+09	3.388E+09	2.158E+09	1.382E+09
2.250E+00	3.715E+16	2.590E+13	1.895E+13	1.517E+13	1.216E+13	3.578E+11	4.639E+09	1.866E+06	4.516E+05	3.553E+05	2.683E+05
2.750E+00	1.591E+16	5.578E+12	1.178E+11	6.633E+10	5.532E+10	3.326E+09	1.034E+08	1.050E+05	1.083E+02	1.118E-01	4.515E-05
3.500E+00	8.882E+15	5.737E+10	1.065E+10	8.703E+09	7.326E+09	4.681E+08	1.504E+07	1.551E+04	1.604E+01	1.656E-02	1.358E-05
5.000E+00	4.720E+15	1.955E-06	1.994E-06	2.031E-06	2.066E-06	2.395E-06	2.523E-06	2.567E-06	2.570E-06	2.570E-06	2.570E-06
7.000E+00	3.802E+13	1.269E-07	1.294E-07	1.318E-07	1.340E-07	1.554E-07	1.637E-07	1.665E-07	1.667E-07	1.668E-07	1.668E-07
9.500E+00	3.739E+09	8.021E-09	8.183E-09	8.334E-09	8.475E-09	9.826E-09	1.035E-08	1.053E-08	1.054E-08	1.055E-08	1.055E-08
TOTAL	1.543E+18	1.771E+16	7.115E+15	3.313E+15	1.811E+15	1.913E+14	1.313E+14	9.945E+13	7.840E+13	6.207E+13	4.718E+13
MEV/SEC	1.055E+18	1.156E+16	4.674E+15	1.965E+15	8.959E+14	8.555E+13	6.389E+13	4.895E+13	3.867E+13	3.064E+13	2.330E+13

18 GROUP SPECIFIC ENERGY RELEASE RATES, MEV/WATT-SEC
BASIS= 1 MTU 80% MARK IV - 20% MARK IA FUEL @ 6% PU-240

EMEAN	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
1.000E-02	1.054E+09	6.746E+06	3.437E+06	2.265E+06	1.684E+06	1.356E+05	7.262E+04	5.491E+04	4.303E+04	3.386E+04	2.656E+04
2.500E-02	1.250E+09	7.982E+06	2.825E+06	1.623E+06	1.182E+06	1.709E+05	6.527E+04	2.934E+04	2.130E+04	1.662E+04	1.254E+04
3.750E-02	2.249E+09	3.129E+07	1.415E+07	9.808E+06	7.676E+06	5.827E+05	3.063E+05	2.275E+05	1.782E+05	1.408E+05	1.069E+05
5.750E-02	1.296E+09	7.129E+06	3.934E+06	2.689E+06	2.036E+06	1.564E+05	8.020E+04	5.984E+04	4.648E+04	3.641E+04	2.742E+04
8.500E-02	2.558E+09	1.266E+07	8.238E+06	6.237E+06	4.911E+06	2.613E+05	9.014E+04	5.799E+04	4.287E+04	3.308E+04	2.480E+04
1.250E-01	7.568E+09	2.129E+08	6.182E+07	3.386E+07	2.485E+07	8.413E+05	1.152E+05	6.605E+04	4.606E+04	3.408E+04	2.479E+04
2.250E-01	4.136E+10	2.137E+07	1.036E+07	6.892E+06	5.169E+06	4.349E+05	1.962E+05	1.319E+05	1.011E+05	7.898E+04	5.933E+04
3.750E-01	5.121E+10	3.795E+07	1.157E+07	8.384E+06	6.807E+06	1.154E+06	3.744E+05	1.186E+05	7.896E+04	6.096E+04	4.593E+04
5.750E-01	1.551E+11	1.311E+09	4.064E+08	2.204E+08	1.706E+08	7.605E+07	6.137E+07	4.787E+07	3.795E+07	3.011E+07	2.292E+07
8.500E-01	2.575E+11	9.528E+09	4.072E+09	1.613E+09	6.232E+08	3.322E+06	7.760E+05	1.493E+05	7.458E+04	4.515E+04	2.772E+04
1.250E+00	2.347E+11	5.366E+07	3.155E+07	2.305E+07	1.816E+07	1.485E+06	4.176E+05	1.696E+05	8.431E+04	4.490E+04	2.351E+04
1.750E+00	1.167E+11	2.567E+08	4.918E+06	2.586E+06	2.135E+06	1.398E+05	2.183E+04	1.007E+04	5.929E+03	3.776E+03	2.418E+03
2.250E+00	8.358E+10	5.827E+07	4.264E+07	3.414E+07	2.736E+07	8.051E+05	1.044E+04	4.198E+00	1.016E+00	7.994E-01	6.037E-01
2.750E+00	4.375E+10	1.534E+07	3.239E+05	1.824E+05	1.521E+05	9.147E+03	2.845E+02	2.887E-01	2.979E-04	3.073E-07	1.242E-10
3.500E+00	3.109E+10	2.008E+05	3.728E+04	3.046E+04	2.564E+04	1.638E+03	5.262E+01	5.430E-02	5.615E-05	5.796E-08	4.754E-11
5.000E+00	2.360E+10	9.775E-12	9.972E-12	1.016E-11	1.033E-11	1.197E-11	1.262E-11	1.283E-11	1.285E-11	1.285E-11	1.285E-11
7.000E+00	2.662E+08	8.880E-13	9.058E-13	9.225E-13	9.382E-13	1.088E-12	1.146E-12	1.166E-12	1.167E-12	1.167E-12	1.167E-12
9.500E+00	3.552E+04	7.620E-14	7.774E-14	7.917E-14	8.051E-14	9.335E-14	9.836E-14	1.000E-13	1.002E-13	1.002E-13	1.002E-13
TOTAL	1.055E+12	1.156E+10	4.674E+09	1.965E+09	8.959E+08	8.555E+07	6.389E+07	4.895E+07	3.867E+07	3.064E+07	2.330E+07

```
GAM POW   1.691E+05 1.853E+03 7.492E+02 3.150E+02 1.436E+02 1.371E+01 1.024E+01 7.846E+00 6.199E+00 4.912E+00 3.736E+00
                                                                                OUTPUT UNIT =  6                    PAGE  112
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:32:17

                    PRINCIPAL PHOTON SOURCES IN GROUP  1,PHOTONS/SEC
                     MEAN ENERGY= 0.010MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                    PRINCIPAL PHOTON SOURCES IN GROUP  2,PHOTONS/SEC
                     MEAN ENERGY= 0.025MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                    PRINCIPAL PHOTON SOURCES IN GROUP  3,PHOTONS/SEC
                     MEAN ENERGY= 0.038MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                    PRINCIPAL PHOTON SOURCES IN GROUP  4,PHOTONS/SEC
                     MEAN ENERGY= 0.058MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                    PRINCIPAL PHOTON SOURCES IN GROUP  5,PHOTONS/SEC
                     MEAN ENERGY= 0.085MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                    PRINCIPAL PHOTON SOURCES IN GROUP  6,PHOTONS/SEC
                     MEAN ENERGY= 0.125MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                    PRINCIPAL PHOTON SOURCES IN GROUP  7,PHOTONS/SEC
                     MEAN ENERGY= 0.225MEV
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```
NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                  PRINCIPAL PHOTON SOURCES IN GROUP  8,PHOTONS/SEC
                   MEAN ENERGY= 0.375MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
                                                                          OUTPUT UNIT =  6                          PAGE  113
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:32:17

                  PRINCIPAL PHOTON SOURCES IN GROUP  9,PHOTONS/SEC
                   MEAN ENERGY= 0.575MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                  PRINCIPAL PHOTON SOURCES IN GROUP 10,PHOTONS/SEC
                   MEAN ENERGY= 0.850MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                  PRINCIPAL PHOTON SOURCES IN GROUP 11,PHOTONS/SEC
                   MEAN ENERGY= 1.250MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                  PRINCIPAL PHOTON SOURCES IN GROUP 12,PHOTONS/SEC
                   MEAN ENERGY= 1.750MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                  PRINCIPAL PHOTON SOURCES IN GROUP 13,PHOTONS/SEC
                   MEAN ENERGY= 2.250MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                  PRINCIPAL PHOTON SOURCES IN GROUP 14,PHOTONS/SEC
                   MEAN ENERGY= 2.750MEV
```

```
NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                  PRINCIPAL PHOTON SOURCES IN GROUP 15,PHOTONS/SEC
                   MEAN ENERGY= 3.500MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
RH106     2.812E+10 1.227E+10 1.033E+10 8.701E+09 7.326E+09 4.681E+08 1.504E+07 1.551E+04 1.604E+01 1.655E-02 4.951E-06

                  PRINCIPAL PHOTON SOURCES IN GROUP 16,PHOTONS/SEC
                   MEAN ENERGY= 5.000MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
                                                                                OUTPUT UNIT =  6                          PAGE  114
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:32:17

                  PRINCIPAL PHOTON SOURCES IN GROUP 17,PHOTONS/SEC
                   MEAN ENERGY= 7.000MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                  PRINCIPAL PHOTON SOURCES IN GROUP 18,PHOTONS/SEC
                   MEAN ENERGY= 9.500MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
RB 94     3.739E+09 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
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Plutonium, High Exposure

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*********************************************************
*                                                       *
*   OOOOO  RRRR   IIIII   GGGGG   EEEEE  N    N   22222  *
*   O   O  R   R    I    G       E      NN   N  22   22 *
*   O   O  RRRR     I    G    GG EEEE   N NN N      22  *
*   O   O  R   R    I    G     G E      N   NN   22     *
*   OOOOO  R   R  IIIII   GGGGGG EEEEE  N    N  2222222 *
*                                                       *
*                  Version 2.2 (5-4-2002)               *
*                                                       *
*                                                       *
*                  OOOOO    AA    K   K                 *
*                  O   O   A  A   K  K                  *
*                  O   O   AAAA   KKK                   *
*                  O   O   A  A   K  K                  *
*                  OOOOO   A  A   K   K                 *
*                                                       *
*          RRRR   III   DDDDD     GGGGG    EEEEE        *
*          R   R   I    D    D   G         E            *
*          RRRR    I    D    D   G    GG   EEEE         *
*          R   R   I    D    D   G     G   E            *
*          R   R  III   DDDDD     GGGGGG   EEEEE        *
*                                                       *
*   N    N   AA   TTTTT  III  OOOOO  N    N   AA   L    *
*   NN   N  A  A    T     I   O   O  NN   N  A  A  L    *
*   N NN N  AAAA    T     I   O   O  N NN N  AAAA  L    *
*   N   NN  A  A    T     I   O   O  N   NN  A  A  L    *
*   N    N  A  A    T    III  OOOOO  N    N  A  A  LLLLL *
*                                                       *
* L     AA  BBBB  OOOO RRRR    AA  TTTTT OOOO RRRR  Y   Y *
* L    A  A B   B O  O R   R  A  A   T   O  O R   R  Y Y  *
* L    AAAA BBBB  O  O RRRR   AAAA   T   O  O RRRR    Y   *
* L    A  A B   B O  O R   R  A  A   T   O  O R   R   Y   *
* LLLL A  A BBBB  OOOO R   R  A  A   T   OOOO R   R   Y   *
*                                                       *
*                                                       *
*          RSIC CODE PACKAGE NUMBER (CCC-371)           *
*                                                       *
*  ORIGEN2 VERSION 2.2 (5-4-2002) UPDATES THE FOLLOWING: *
```

```
*                                                        *
*          CCC-371(A) - MAINFRAMES                       *
*          CCC-371(E) - ALL PCS WITH WINDOWS             *
*                                                        *
*     ORIGEN2 RUN  DATE: 07/27/10    TIME 06:32:41       *
*                                                        *
*                                                        *
**********************************************************
                                                OUTPUT UNIT =  6                    PAGE    1
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:32:41

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***************************** ORIGEN2:  A REVISED AND UPDATED VERSION OF THE ORIGEN COMPUTER CODE ******************************
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INTRODUCTION
   THIS TEXT IS INTENDED TO BE A BRIEF OUTLINE OF THE ORIGEN2 COMPUTER CODE, WHICH IS A REVISED AND UPDATED VERSION OF THE
   ORIGEN DOCUMENTED IN REPORT ORNL-4628 (MAY 1973).  INCLUDED HERE ARE A BRIEF DESCRIPTION OF THE FUNCTIONS OF ORIGEN2, A
   LISTING OF THE MAJOR DATA SOURCES, A LISTING OF THE PUBLISHED DOCUMENTATION CONCERNING ORIGEN2, AND AN OUTLINE OF THE ORIGEN2
   OUTPUT ORGANIZATION.  ORIGEN2 IS AVAILABLE FROM THE ORNL RADIATION SHIELDING INFORMATION CENTER (RSIC) AT THE FOLLOWING
   ADDRESS:
                          CODES COORDINATOR
                          RADIATION SHIELDING INFORMATION CENTER
                          BLDG. 6025
                          OAK RIDGE NATIONAL LABORATORY
                          OAK RIDGE, TENNESSEE  37830
                          PHONE: (615) 574-6176
   QUESTIONS CONCERNING ORIGEN2 SHOULD BE ADDRESSED TO RSIC.
DESCRIPTION
   ORIGEN2 IS A REVISION AND UPDATE OF THE ORIGEN COMPUTER CODE. SPECIFICALLY, THE INPUT, OUTPUT, CONTROL, AND DATA BASE ASPECTS
    OF ORIGEN HAVE BEEN SIGNIFICANTLY REVISED AND UPDATED TO REFLECT CURRENT INFORMATION AND NEEDS.  IT SHOULD BE NOTED THAT THE
   MATHEMATICAL METHODS USED TO SOLVE THE NUCLIDE BUILDUP, DEPLETION, AND DECAY EQUATIONS ARE ESSENTIALLY UNCHANGED FROM THAT IN
   ORIGEN.  ORIGEN2 IS A COMPUTER CODE DESIGNED TO CALCULATE THE COMPOSITION AND CHARACTERISTICS OF NUCLEAR MATERIALS AS A
   FUNCTION OF DECAY TIME AND THE CHANGES THE MATERIALS UNDERGO DURING VARIOUS FUEL CYCLE OPERATIONS.  INPUT AND OUTPUT FEATURES
   HAVE BEEN DESIGNED TO FACILITATE FLEXIBILITY IN THE TYPE OF CASES THAT CAN BE CONSIDERED AND IN CONTROLLING THE DETAIL OF THE
   OUTPUT.  FOR FURTHER INFORMATION, THE USER IS REFERRED TO THE DOCUMENTATION LISTED BELOW.
MAJOR DATA SOURCES
   VIRTUALLY ALL ASPECTS OF THE DATA INPUT TO ORIGEN2 HAVE BEEN UPDATED OR REVISED TO REFLECT CURRENT INFORMATION.  THE
   PRINCIPAL SOURCES OF CROSS SECTION DATA WERE THE ENDF/B-IV, ENDF/B-V, AND LENDL COMPILATIONS.  DECAY AND PHOTON INFORMATION
   WERE PRIMARILY BASED ON THE EVALUATED NUCLEAR STRUCTURE DATA FILE (ENSDF) AT ORNL AND ENDF/B-IV.  DATA CONCERNING REACTOR
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   AND FUEL CHARACTERISTICS WERE OBTAINED FROM REFERENCE SAFETY ANALYSIS REPORTS AND, WHERE POSSIBLE, THE COMMERCIAL REACTOR
   VENDORS.
DOCUMENTATION
   THE FOLLOWING ITEMS CONSTITUTE THE ORIGEN2 DOCUMENTATION PUBLISHED AS OF THE DATE OF THIS CODE PACKAGE:
        A.G. CROFF, "ORIGEN2 - A REVISED AND UPDATED VERSION OF THE OAK RIDGE ISOTOPE GENERATION AND DEPLETION CODE", ORNL-5621
        (JULY 1980).
        A.G. CROFF, "A USER'S MANUAL FOR THE ORIGEN2 COMPUTER CODE",  ORNL/TM-7175 (JULY 1980).
        A.G. CROFF, M.A. BJERKE, G.W.MORRISON, AND L.M. PETRIE, "REVISED URANIUM-PLUTONIUM CYCLE PWR AND BWR MODELS FOR THE
        ORIGEN COMPUTER CODE", ORNL/TM-6051 (SEPTEMBER 1978).
        A.G. CROFF AND M.A. BJERKE, "ALTERNATIVE FUEL CYCLE PWR MODELS FOR THE ORIGEN COMPUTER CODE", ORNL/TM-7005 (FEB 1980).
        A.G. CROFF, R.L. HAESE, AND N.B. GOVE, "UPDATED DECAY AND PHOTON LIBRARIES FOR THE ORIGEN CODE", ORNL/TM-6055 (FEB 1979)
        A.G. CROFF, "ORIGEN2: A REVISED AND UPDATED VERSION OF ORIGEN", TRANS. AM. NUCL. SOC., VOL. 34, P. 349-50 (JUNE 1980).
                                                                    OUTPUT UNIT =  6                          PAGE    2
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:32:41

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***************************** ORIGEN2:  A REVISED AND UPDATED VERSION OF THE ORIGEN COMPUTER CODE ******************************
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ORGANIZATION OF ORIGEN2 OUTPUT
   PAST EXPERIENCE HAS INDICATED THAT MANY USERS ENCOUNTER CONSIDERABLE DIFFICULTY IN FINDING THE DESIRED INFORMATION IN A
   ORIGEN2 OUT PUT WHICH IS SOMETIMES RATHER MASSIVE.  THIS SECTION IS INTENDED AS A BRIEF OUTLINE OF THE ORGANIZATION OF
   ORIGEN2 OUTPUT.  FOR DETAILS REFER TO THE USER'S MANUAL (ORNL/TM-7175, SECT. 8.2).  THE ORIGEN2 OUTPUT IS EXTREMELY
   HIERARCHICAL, AND IS ORGANIZED AS FOLLOWS:

        CARD INPUT ECHO
        MISCELLANEOUS INPUT DATA (NEUTRON YIELDS, REPROCESSING LOSSES,ELEMENT CHEMICAL TOXICITIES
        LISTING OF ORIGEN2 COMMANDS CURRENTLY BEING EXECUTED
        LISTING OF ORIGEN2 DATA LIBRARIES (IF SPECIFIED)
          DECAY LIBRARY
            ACTIVATION PRODUCTS
            ACTINIDES
            FISSION PRODUCTS
          CROSS SECTION/FISSION PRODUCT YIELD LIBRARY
            ACTIVATION PRODUCTS, ACTINIDES, AND FISSION PRODUCTS
          PHOTON LIBRARY
            ACTIVATION PRODUCTS, ACTINIDES, AND FISSION PRODUCTS
        OUTPUT 1
          REACTIVITY AND BURNUP DATA
          ACTIVATION PRODUCT TABLES
            GRAM TABLES (NUCLIDE, ELEMENT, NUCLIDE SUMMARY, ELEMENT SUMMARY)
```

```
    CURIE TABLES (NUCLIDE, ELEMENT, NUCLIDE SUMMARY, ELEMENT SUMMARY)
    ETC. (DEPENDING ON THE OUTPUT OPTIONS SPECIFIED, MANY OF THESE TABLES MAY BE OMITTED
      .
      .
  ACTINIDE TABLES
    SAME SUBHEADINGS POSSIBLE AS UNDER ACTIVATION PRODUCT TABLES
  FISSION PRODUCT TABLES
    SAME SUBHEADINGS POSSIBLE AS UNDER ACTIVATION PRODUCT TABLES
  NEUTRON PRODUCTION RATE TABLES: (ALPHA,N) AND SPONTANEOUS FISSION
  PHOTON TABLES
    ACTIVATION PRODUCTS (SUMMATION AND PRINCIPAL CONTRIBUTORS)
    ACTINIDES (SUMMATION AND PRINCIPAL CONTRIBUTORS)
    FISSION PRODUCTS (SUMMATION AND PRINCIPAL CONTRIBUTORS)
OUTPUT 2
  SAME GENERAL CONTENT AND ORDER AS OUTPUT 1
  .
  .
  .
OUTPUT N
  SAME GENERAL CONTENT AND ORDER AS OUTPUT 1
TABLE OF CONTENTS (UNIT 12) FOR THE ABOVE (UNIT 6) OUTPUT
VARIABLE CROSS SECTION INFORMATION OUTPUT (UNIT 16)
DEBUGGING AND OTHER INTERNAL INFORMATION OUTPUT (UNIT 15)

THE SCENARIO LISTED ABOVE CONSTITUTES A TYPICAL ORIGEN2 OUTPUT FOR MANY CASES.  ONE POSSIBLE MODIFICATION IS THE USE OF AN
STP COMMAND TO EXECUTE AN ADDITIONAL SET OF INSTRUCTIONS AFTER THE FIRST SET HAS BEEN EXECUTED.  IF THIS IS DONE, THE OUTPUT
WILL BEGIN WITH "MISCELLANEOUS INPUT DATA" IF NSTP=1, "ORIGEN2COMMANDS CURRENTLY BEING EXECUTED" IF NSTP=2, OR "OUTPUT 1"
FOR NSTP=3.  ANOTHER OFTEN-USED OPTION IS TO EMPLOY BOTH THE PRIMARY (UNIT 6) AND ALTERNATE (UNIT 11) OUTPUT UNITS.  IF BOTH
ARE ROUTED TO PAPER, THE TABLE OF CONTENTS FOR UNIT 11, WHICH IS ON UNIT 13, WILL IMMEDIATELY FOLLOW THE DEBUGGING AND
INTERNAL INFORMATION (UNIT 15) OUTPUT.  THE "OUTPUT N" TABLES FOR UNIT 11 WILL BE PRINTED FOLLOWING THE TABLE OF CONTENTS.
                                                                                                                    PAGE    3
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:32:41
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                  CARD IMAGE
UNIT    UNIT     NUMBER
   5      50        1      92 1 0.0
   5      50        2      94 1 1.0
   5      50        3      -1
   5      50        4      -1
   5      50        5      -1
   5      50        6      TIT     PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL
   5      50        7      RDA
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```
5    50    8    RDA    READ DATA LIBRARIES
5    50    9    RDA
5    50   10    LIP    0 0 0
5    50   11    LIB    0 1 2 3 0 0 0 9 3 0 0 0
5    50   12    PHO    101 102 103 10
5    50   13    RDA
5    50   14    RDA    INPUT PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL
5    50   15    RDA
5    50   16    BAS    PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL
5    50   17    INP   -1  1 -1 -1  1  1
5    50   18    MOV   -1  1  0  1
5    50   19    RDA
5    50   20    RDA    DECAY PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL
5    50   21    RDA
5    50   22    DEC    0.250    1  2  5  2
5    50   23    DEC    0.500    2  3  5  0
5    50   24    PRO             3  3 -1  1
5    50   25    DEC    0.750    3  4  5  0
5    50   26    DEC    1.000    4  5  5  0
5    50   27    DEC    5.000    5  6  5  0
5    50   28    DEC    10.00    6  7  5  0
5    50   29    DEC    20.00    7  8  5  0
5    50   30    DEC    30.00    8  9  5  0
5    50   31    DEC    40.00    9 10  5  0
5    50   32    DEC    51.80   10 11  5  0
5    50   33    RDA
5    50   34    RDA    GENERATE OUTPUT
5    50   35    RDA
5    50   36    CUT    5 1.0E-10  7 1.0E-10  9 1.0E-10  23 1.0E-10  27 1.0  -1
5    50   37    OPTL   8 8 8 8 7  8 7 8 7 8  8 8 8 8 8  8 8 8 8 8  8 8 8 8
5    50   38    OPTA   8 8 8 8 7  8 7 8 7 8  8 8 8 8 8  8 8 8 8 8  8 8 8 8
5    50   39    OPTF   8 8 8 8 7  8 7 8 7 8  8 8 8 8 8  8 8 8 8 8  8 8 8 8
5    50   40    HED     1  0.00 Y
5    50   41    HED     2  0.25 Y
5    50   42    HED     3  0.50 Y
5    50   43    HED     4  0.75 Y
5    50   44    HED     5  1.00 Y
5    50   45    HED     6  5.00 Y
5    50   46    HED     7  10.0 Y
5    50   47    HED     8  20.0 Y
5    50   48    HED     9  30.0 Y
5    50   49    HED    10  40.0 Y
```

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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:32:41
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                   CARD IMAGE
UNIT    UNIT     NUMBER
   5      50        50      HED     11  51.8 Y
   5      50        51      OUT     11  1 -1  0
   5      50        52      END
   5      50        53      1   10010 3.840E+00 0 0.00
   5      50        54      1   10020 2.169E-03 0 0.00
   5      50        55      1   10030 8.780E-05 0 0.00
   5      50        56      1   10040 3.377E-17 0 0.00
   5      50        57      1   20030 7.853E-07 0 0.00
   5      50        58      1   20040 2.321E-02 0 0.00
   5      50        59      1   20060 5.279E-11 0 0.00
   5      50        60      1   30060 7.976E-04 0 0.00
   5      50        61      1   30070 2.914E-02 0 0.00
   5      50        62      1   30080 2.286E-14 0 0.00
   5      50        63      1   40080 3.005E-16 0 0.00
   5      50        64      1   40090 9.997E+00 0 0.00
   5      50        65      1   40100 5.211E-05 0 0.00
   5      50        66      1   50100 1.146E-02 0 0.00
   5      50        67      1   50110 2.400E-01 0 0.00
   5      50        68      1   50120 7.341E-16 0 0.00
   5      50        69      1   60120 5.633E+02 0 0.00
   5      50        70      1   60130 6.851E+00 0 0.00
   5      50        71      1   60140 6.812E-02 0 0.00
   5      50        72      1   60150 1.241E-16 0 0.00
   5      50        73      1   70140 8.047E+01 0 0.00
   5      50        74      1   70150 3.194E-01 0 0.00
   5      50        75      1   70160 1.372E-15 0 0.00
   5      50        76      1   90200 6.423E-13 0 0.00
   5      50        77      1  100210 3.175E-05 0 0.00
   5      50        78      1  100220 4.770E-05 0 0.00
   5      50        79      1  100230 3.081E-11 0 0.00
   5      50        80      1  110230 1.468E+00 0 0.00
   5      50        81      1  110240 4.013E-06 0 0.00
   5      50        82      1  110241 2.980E-13 0 0.00
   5      50        83      1  110250 2.542E-11 0 0.00
   5      50        84      1  120240 2.063E+01 0 0.00
   5      50        85      1  120250 2.721E+00 0 0.00
   5      50        86      1  120260 3.115E+00 0 0.00
   5      50        87      1  120270 1.132E-07 0 0.00
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   5      50        88      1  130270 8.054E+02 0 0.00
   5      50        89      1  130280 6.608E-07 0 0.00
   5      50        90      1  130290 5.262E-10 0 0.00
   5      50        91      1  130300 4.970E-15 0 0.00
   5      50        92      1  140280 1.208E+02 0 0.00
   5      50        93      1  140290 6.335E+00 0 0.00
   5      50        94      1  140300 4.346E+00 0 0.00
   5      50        95      1  140310 1.223E-07 0 0.00
   5      50        96      1  140320 2.124E-11 0 0.00
   5      50        97      1  150310 1.932E-04 0 0.00
   5      50        98      1  150320 9.579E-10 0 0.00
   5      50        99      1  200450 1.918E-08 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:32:41
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                    CARD IMAGE
UNIT    UNIT     NUMBER
   5      50       100      1  210460 1.702E-06 0 0.00
   5      50       101      1  210470 1.342E-07 0 0.00
   5      50       102      1  210480 7.180E-09 0 0.00
   5      50       103      1  210490 1.311E-10 0 0.00
   5      50       104      1  210500 8.027E-14 0 0.00
   5      50       105      1  220460 2.906E-01 0 0.00
   5      50       106      1  220470 2.681E-01 0 0.00
   5      50       107      1  220480 2.703E+00 0 0.00
   5      50       108      1  220490 2.102E-01 0 0.00
   5      50       109      1  220500 1.994E-01 0 0.00
   5      50       110      1  220510 3.273E-10 0 0.00
   5      50       111      1  230500 8.917E-03 0 0.00
   5      50       112      1  230510 3.683E+00 0 0.00
   5      50       113      1  230520 1.031E-07 0 0.00
   5      50       114      1  230530 1.013E-11 0 0.00
   5      50       115      1  230540 6.011E-14 0 0.00
   5      50       116      1  240500 5.750E+00 0 0.00
   5      50       117      1  240510 5.159E-03 0 0.00
   5      50       118      1  240520 1.157E+02 0 0.00
   5      50       119      1  240530 1.345E+01 0 0.00
   5      50       120      1  240540 3.477E+00 0 0.00
   5      50       121      1  240550 7.063E-09 0 0.00
   5      50       122      1  250540 1.180E-03 0 0.00
   5      50       123      1  250550 2.851E+01 0 0.00
   5      50       124      1  250560 1.069E-04 0 0.00
```

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    5      50        125      1  250570 3.129E-11 0 0.00
    5      50        126      1  250580 6.995E-14 0 0.00
    5      50        127      1  260540 2.515E+01 0 0.00
    5      50        128      1  260550 4.630E-02 0 0.00
    5      50        129      1  260560 4.125E+02 0 0.00
    5      50        130      1  260570 1.026E+01 0 0.00
    5      50        131      1  260580 1.364E+00 0 0.00
    5      50        132      1  260590 1.548E-04 0 0.00
    5      50        133      1  270580 1.913E-03 0 0.00
    5      50        134      1  270590 7.189E-01 0 0.00
    5      50        135      1  270600 1.688E-02 0 0.00
    5      50        136      1  270601 3.992E-07 0 0.00
    5      50        137      1  270610 1.093E-08 0 0.00
    5      50        138      1  270620 2.877E-11 0 0.00
    5      50        139      1  280580 9.436E+01 0 0.00
    5      50        140      1  280590 2.369E-01 0 0.00
    5      50        141      1  280600 3.739E+01 0 0.00
    5      50        142      1  280610 1.683E+00 0 0.00
    5      50        143      1  280620 5.283E+00 0 0.00
    5      50        144      1  280630 3.705E-02 0 0.00
    5      50        145      1  280640 1.455E+00 0 0.00
    5      50        146      1  280650 5.134E-07 0 0.00
    5      50        147      1  280660 5.881E-11 0 0.00
    5      50        148      1  290630 5.381E+01 0 0.00
    5      50        149      1  290640 3.105E-04 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:32:41
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE     CARD                                  CARD IMAGE
UNIT    UNIT      NUMBER
    5      50        150      1  290650 2.474E+01 0 0.00
    5      50        151      1  290660 4.622E-07 0 0.00
    5      50        152      1  290670 3.330E-10 0 0.00
    5      50        153      1  300640 3.760E-02 0 0.00
    5      50        154      1  300650 5.581E-06 0 0.00
    5      50        155      1  300660 2.254E-02 0 0.00
    5      50        156      1  380870 1.487E-04 0 0.00
    5      50        157      1  380880 1.369E-02 0 0.00
    5      50        158      1  380890 2.743E-04 0 0.00
    5      50        159      1  380900 1.027E-07 0 0.00
    5      50        160      1  380910 4.700E-07 0 0.00
    5      50        161      1  380930 2.182E-11 0 0.00
```

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5     50     162     1  390890 7.669E-04 0 0.00
5     50     163     1  390891 1.975E-14 0 0.00
5     50     164     1  390900 5.966E-04 0 0.00
5     50     165     1  390910 8.080E-04 0 0.00
5     50     166     1  390920 1.992E-06 0 0.00
5     50     167     1  390930 1.763E-09 0 0.00
5     50     168     1  390940 1.164E-08 0 0.00
5     50     169     1  390960 9.193E-12 0 0.00
5     50     170     1  400890 3.480E-10 0 0.00
5     50     171     1  400900 3.659E+04 0 0.00
5     50     172     1  400910 8.043E+03 0 0.00
5     50     173     1  400920 1.243E+04 0 0.00
5     50     174     1  400930 2.269E+00 0 0.00
5     50     175     1  400940 1.292E+04 0 0.00
5     50     176     1  400950 2.293E-01 0 0.00
5     50     177     1  400960 2.121E+03 0 0.00
5     50     178     1  400970 5.910E-03 0 0.00
5     50     179     1  410920 2.225E-07 0 0.00
5     50     180     1  410930 2.889E-08 0 0.00
5     50     181     1  410931 3.869E-07 0 0.00
5     50     182     1  410940 3.224E-07 0 0.00
5     50     183     1  410950 1.103E-01 0 0.00
5     50     184     1  410951 9.126E-05 0 0.00
5     50     185     1  410960 2.052E-06 0 0.00
5     50     186     1  410970 4.202E-04 0 0.00
5     50     187     1  410971 5.515E-06 0 0.00
5     50     188     1  410980 1.591E-15 0 0.00
5     50     189     1  420920 5.204E-01 0 0.00
5     50     190     1  420930 3.415E-05 0 0.00
5     50     191     1  420931 1.835E-09 0 0.00
5     50     192     1  420940 3.341E-01 0 0.00
5     50     193     1  420950 9.452E-01 0 0.00
5     50     194     1  420960 6.236E-01 0 0.00
5     50     195     1  420970 1.798E+00 0 0.00
5     50     196     1  420980 9.049E-01 0 0.00
5     50     197     1  420990 1.320E-05 0 0.00
5     50     198     1  421000 3.668E-01 0 0.00
5     50     199     1  421010 1.235E-08 0 0.00
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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:32:41
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE     CARD                                CARD IMAGE
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UNIT	UNIT	NUMBER					
5	50	200	1	430990	9.984E-05	0	0.00
5	50	201	1	431000	3.258E-12	0	0.00
5	50	202	1	431010	1.199E-08	0	0.00
5	50	203	1	441010	2.091E-04	0	0.00
5	50	204	1	471080	2.830E-13	0	0.00
5	50	205	1	471081	1.021E-09	0	0.00
5	50	206	1	471091	1.804E-12	0	0.00
5	50	207	1	471100	1.158E-13	0	0.00
5	50	208	1	471101	1.186E-09	0	0.00
5	50	209	1	481060	3.511E-03	0	0.00
5	50	210	1	481070	1.951E-09	0	0.00
5	50	211	1	481080	2.447E-03	0	0.00
5	50	212	1	481090	1.826E-06	0	0.00
5	50	213	1	481100	3.474E-02	0	0.00
5	50	214	1	481110	3.602E-02	0	0.00
5	50	215	1	481111	4.476E-10	0	0.00
5	50	216	1	481120	6.906E-02	0	0.00
5	50	217	1	481130	5.862E-06	0	0.00
5	50	218	1	481140	1.187E-01	0	0.00
5	50	219	1	481150	3.810E-06	0	0.00
5	50	220	1	481151	5.999E-06	0	0.00
5	50	221	1	481160	2.216E-02	0	0.00
5	50	222	1	481170	6.118E-09	0	0.00
5	50	223	1	481171	2.802E-10	0	0.00
5	50	224	1	481190	8.694E-13	0	0.00
5	50	225	1	481210	6.101E-15	0	0.00
5	50	226	1	491130	2.856E-02	0	0.00
5	50	227	1	491131	8.746E-06	0	0.00
5	50	228	1	491140	5.536E-09	0	0.00
5	50	229	1	491141	1.108E-04	0	0.00
5	50	230	1	491150	1.466E-05	0	0.00
5	50	231	1	491160	1.498E-11	0	0.00
5	50	232	1	491161	1.185E-09	0	0.00
5	50	233	1	491170	2.440E-09	0	0.00
5	50	234	1	491171	4.318E-09	0	0.00
5	50	235	1	491180	1.009E-12	0	0.00
5	50	236	1	491190	2.164E-11	0	0.00
5	50	237	1	491191	1.665E-12	0	0.00
5	50	238	1	491210	1.094E-14	0	0.00
5	50	239	1	501120	9.994E+00	0	0.00
5	50	240	1	501130	1.457E-02	0	0.00
5	50	241	1	501131	1.069E-06	0	0.00

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    5      50        242      1  501140 6.844E+00 0 0.00
    5      50        243      1  501150 3.850E+00 0 0.00
    5      50        244      1  501160 1.525E+02 0 0.00
    5      50        245      1  501170 8.137E+01 0 0.00
    5      50        246      1  501171 1.291E-02 0 0.00
    5      50        247      1  501180 2.569E+02 0 0.00
    5      50        248      1  501190 9.178E+01 0 0.00
    5      50        249      1  501191 7.194E-02 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:32:41
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                    CARD IMAGE
UNIT    UNIT     NUMBER
    5      50        250      1  501200 3.484E+02 0 0.00
    5      50        251      1  501210 5.692E-04 0 0.00
    5      50        252      1  501211 5.111E-04 0 0.00
    5      50        253      1  501220 5.028E+01 0 0.00
    5      50        254      1  501230 4.725E-03 0 0.00
    5      50        255      1  501231 5.697E-09 0 0.00
    5      50        256      1  501240 6.216E+01 0 0.00
    5      50        257      1  501250 1.881E-03 0 0.00
    5      50        258      1  501251 1.019E-06 0 0.00
    5      50        259      1  511210 8.652E-02 0 0.00
    5      50        260      1  511220 2.868E-05 0 0.00
    5      50        261      1  511221 2.696E-10 0 0.00
    5      50        262      1  511230 4.513E-03 0 0.00
    5      50        263      1  511240 1.207E-05 0 0.00
    5      50        264      1  511241 1.031E-12 0 0.00
    5      50        265      1  511250 5.286E-02 0 0.00
    5      50        266      1  511260 1.034E-05 0 0.00
    5      50        267      1  511261 1.104E-09 0 0.00
    5      50        268      1  521220 8.802E-04 0 0.00
    5      50        269      1  521231 7.023E-07 0 0.00
    5      50        270      1  521240 1.152E-05 0 0.00
    5      50        271      1  521250 4.983E-03 0 0.00
    5      50        272      1  521251 5.025E-04 0 0.00
    5      50        273      1  521260 8.116E-05 0 0.00
    5      50        274      1  521270 3.134E-10 0 0.00
    5      50        275      1  521271 3.183E-09 0 0.00
    5      50        276      1  711750 2.253E-03 0 0.00
    5      50        277      1  711760 2.164E-05 0 0.00
    5      50        278      1  711761 1.288E-07 0 0.00
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   5      50        279      1  711770 6.434E-07 0 0.00
   5      50        280      1  711771 1.281E-08 0 0.00
   5      50        281      1  721740 1.942E-02 0 0.00
   5      50        282      1  721750 1.149E-03 0 0.00
   5      50        283      1  721760 6.965E-01 0 0.00
   5      50        284      1  721770 1.261E+00 0 0.00
   5      50        285      1  721780 4.560E+00 0 0.00
   5      50        286      1  721781 8.110E-10 0 0.00
   5      50        287      1  721790 2.777E+00 0 0.00
   5      50        288      1  721791 7.404E-07 0 0.00
   5      50        289      1  721800 5.337E+00 0 0.00
   5      50        290      1  721801 1.982E-06 0 0.00
   5      50        291      1  721810 9.604E-03 0 0.00
   5      50        292      1  721820 9.649E-05 0 0.00
   5      50        293      1  731810 3.141E-02 0 0.00
   5      50        294      1  731820 4.094E-04 0 0.00
   5      50        295      1  731821 7.539E-11 0 0.00
   5      50        296      1  731830 3.217E-05 0 0.00
   5      50        297      1  741800 4.579E-03 0 0.00
   5      50        298      1  741810 4.556E-05 0 0.00
   5      50        299      1  741820 8.981E-01 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:32:41
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                  CARD IMAGE
UNIT    UNIT     NUMBER
   5      50        300      1  741830 5.612E-01 0 0.00
   5      50        301      1  741831 5.500E-11 0 0.00
   5      50        302      1  741840 1.144E+00 0 0.00
   5      50        303      1  741850 7.719E-04 0 0.00
   5      50        304      1  741851 1.593E-11 0 0.00
   5      50        305      1  741860 1.001E+00 0 0.00
   5      50        306      1  741870 3.406E-04 0 0.00
   5      50        307      1  741880 3.260E-05 0 0.00
   5      50        308      1  751850 1.260E-03 0 0.00
   5      50        309      1  751860 5.487E-06 0 0.00
   5      50        310      1  751870 5.890E-02 0 0.00
   5      50        311      1  751880 1.276E-05 0 0.00
   5      50        312      1  751881 2.230E-07 0 0.00
   5      50        313      1  751890 5.302E-11 0 0.00
   5      50        314      1  761860 9.696E-05 0 0.00
   5      50        315      1  761880 1.594E-03 0 0.00
```

```
  5      50        316      1  822040 1.011E-01 0 0.00
  5      50        317      1  822050 3.703E-05 0 0.00
  5      50        318      1  822060 1.742E+00 0 0.00
  5      50        319      1  822070 1.636E+00 0 0.00
  5      50        320      1  822080 3.861E+00 0 0.00
  5      50        321      1  822090 5.292E-10 0 0.00
  5      50        322      2   20040 9.304E-04 0 0.00
  5      50        323      2  812070 2.520E-17 0 0.00
  5      50        324      2  812080 1.625E-14 0 0.00
  5      50        325      2  822090 3.047E-16 0 0.00
  5      50        326      2  822100 1.165E-13 0 0.00
  5      50        327      2  822110 1.949E-16 0 0.00
  5      50        328      2  822120 9.588E-12 0 0.00
  5      50        329      2  822140 1.615E-17 0 0.00
  5      50        330      2  832100 7.178E-17 0 0.00
  5      50        331      2  832110 1.150E-17 0 0.00
  5      50        332      2  832120 9.098E-13 0 0.00
  5      50        333      2  832130 7.153E-17 0 0.00
  5      50        334      2  832140 1.199E-17 0 0.00
  5      50        335      2  842100 5.538E-16 0 0.00
  5      50        336      2  842110 1.411E-22 0 0.00
  5      50        337      2  842120 4.810E-23 0 0.00
  5      50        338      2  842130 1.073E-25 0 0.00
  5      50        339      2  842140 3.404E-24 0 0.00
  5      50        340      2  842150 1.632E-22 0 0.00
  5      50        341      2  842160 3.827E-17 0 0.00
  5      50        342      2  842180 1.873E-18 0 0.00
  5      50        343      2  852170 8.598E-22 0 0.00
  5      50        344      2  862190 3.700E-19 0 0.00
  5      50        345      2  862200 1.444E-14 0 0.00
  5      50        346      2  862220 3.442E-15 0 0.00
  5      50        347      2  872210 7.807E-18 0 0.00
  5      50        348      2  872230 2.098E-18 0 0.00
  5      50        349      2  882230 9.397E-14 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:32:41
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE   CARD                                  CARD IMAGE
UNIT    UNIT    NUMBER
  5      50        350      2  882240 8.367E-11 0 0.00
  5      50        351      2  882250 3.526E-14 0 0.00
  5      50        352      2  882260 5.355E-10 0 0.00
```

5	50	353	2	892250	2.384E-14	0	0.00
5	50	354	2	892270	8.129E-11	0	0.00
5	50	355	2	902270	1.537E-13	0	0.00
5	50	356	2	902280	1.622E-08	0	0.00
5	50	357	2	902290	2.304E-09	0	0.00
5	50	358	2	902300	1.474E-04	0	0.00
5	50	359	2	902310	1.120E-07	0	0.00
5	50	360	2	902320	1.685E-05	0	0.00
5	50	361	2	902340	1.432E-05	0	0.00
5	50	362	2	912310	1.208E-05	0	0.00
5	50	363	2	912320	2.367E-08	0	0.00
5	50	364	2	912330	9.927E-07	0	0.00
5	50	365	2	912340	2.912E-10	0	0.00
5	50	366	2	912341	4.831E-10	0	0.00
5	50	367	2	922320	5.922E-06	0	0.00
5	50	368	2	922330	1.337E-04	0	0.00
5	50	369	2	922340	6.625E+01	0	0.00
5	50	370	2	922350	7.365E+03	0	0.00
5	50	371	2	922360	9.119E+02	0	0.00
5	50	372	2	922370	1.653E+00	0	0.00
5	50	373	2	922380	9.864E+05	0	0.00
5	50	374	2	922390	2.660E-01	0	0.00
5	50	375	2	922400	1.298E-05	0	0.00
5	50	376	2	932350	1.330E-07	0	0.00
5	50	377	2	932360	1.341E-05	0	0.00
5	50	378	2	932361	5.530E-07	0	0.00
5	50	379	2	932370	3.385E+01	0	0.00
5	50	380	2	932380	6.969E-02	0	0.00
5	50	381	2	932390	3.831E+01	0	0.00
5	50	382	2	932400	4.912E-04	0	0.00
5	50	383	2	932401	1.417E-05	0	0.00
5	50	384	2	942360	2.159E-05	0	0.00
5	50	385	2	942370	1.377E-06	0	0.00
5	50	386	2	942380	2.643E+00	0	0.00
5	50	387	2	942390	1.859E+03	0	0.00
5	50	388	2	942400	2.609E+02	0	0.00
5	50	389	2	942410	6.686E+01	0	0.00
5	50	390	2	942420	4.269E+00	0	0.00
5	50	391	2	942430	6.670E-04	0	0.00
5	50	392	2	952400	1.018E-08	0	0.00
5	50	393	2	952410	6.587E-01	0	0.00
5	50	394	2	952420	1.436E-03	0	0.00
5	50	395	2	952421	5.798E-03	0	0.00

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   5      50        396      2  952430 1.299E-01 0 0.00
   5      50        397      2  952440 3.842E-06 0 0.00
   5      50        398      2  952441 3.138E-06 0 0.00
   5      50        399      2  962420 6.846E-02 0 0.00
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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:32:41
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                  CARD IMAGE
UNIT    UNIT     NUMBER
   5      50        400      2  962430 3.067E-04 0 0.00
   5      50        401      2  962440 6.062E-03 0 0.00
   5      50        402      2  962450 5.428E-05 0 0.00
   5      50        403      2  962460 8.491E-07 0 0.00
   5      50        404      3   10030 4.976E-03 0 0.00
   5      50        405      3   30060 3.091E-05 0 0.00
   5      50        406      3   30070 8.841E-07 0 0.00
   5      50        407      3   40090 1.700E-06 0 0.00
   5      50        408      3   40100 1.136E-05 0 0.00
   5      50        409      3   60140 2.298E-06 0 0.00
   5      50        410      3  270720 4.477E-13 0 0.00
   5      50        411      3  270730 1.359E-13 0 0.00
   5      50        412      3  270740 2.601E-14 0 0.00
   5      50        413      3  280720 1.654E-10 0 0.00
   5      50        414      3  280730 2.275E-11 0 0.00
   5      50        415      3  280740 2.466E-11 0 0.00
   5      50        416      3  280750 2.797E-12 0 0.00
   5      50        417      3  280760 1.107E-12 0 0.00
   5      50        418      3  280770 7.273E-14 0 0.00
   5      50        419      3  280780 1.137E-14 0 0.00
   5      50        420      3  290720 7.691E-10 0 0.00
   5      50        421      3  290730 7.172E-10 0 0.00
   5      50        422      3  290740 1.495E-10 0 0.00
   5      50        423      3  290750 2.032E-10 0 0.00
   5      50        424      3  290760 4.609E-11 0 0.00
   5      50        425      3  290770 2.882E-11 0 0.00
   5      50        426      3  290780 4.278E-12 0 0.00
   5      50        427      3  290790 1.446E-12 0 0.00
   5      50        428      3  290800 9.695E-14 0 0.00
   5      50        429      3  290810 5.839E-15 0 0.00
   5      50        430      3  300720 2.453E-05 0 0.00
   5      50        431      3  300730 6.925E-09 0 0.00
   5      50        432      3  300740 5.530E-08 0 0.00
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  5      50        433      3  300750 9.996E-09 0 0.00
  5      50        434      3  300760 1.097E-08 0 0.00
  5      50        435      3  300770 3.252E-09 0 0.00
  5      50        436      3  300780 5.773E-09 0 0.00
  5      50        437      3  300790 5.621E-10 0 0.00
  5      50        438      3  300800 3.963E-10 0 0.00
  5      50        439      3  300810 1.635E-11 0 0.00
  5      50        440      3  300820 2.197E-12 0 0.00
  5      50        441      3  300830 1.276E-13 0 0.00
  5      50        442      3  310720 7.458E-06 0 0.00
  5      50        443      3  310730 5.397E-06 0 0.00
  5      50        444      3  310740 2.987E-07 0 0.00
  5      50        445      3  310750 1.483E-07 0 0.00
  5      50        446      3  310760 8.008E-08 0 0.00
  5      50        447      3  310770 7.180E-08 0 0.00
  5      50        448      3  310780 4.920E-08 0 0.00
  5      50        449      3  310790 3.190E-08 0 0.00
                                                                    PAGE   12
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:32:41
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE     CARD                                  CARD IMAGE
UNIT    UNIT      NUMBER
  5      50        450      3  310800 2.048E-08 0 0.00
  5      50        451      3  310810 5.043E-09 0 0.00
  5      50        452      3  310820 4.052E-10 0 0.00
  5      50        453      3  310830 1.080E-10 0 0.00
  5      50        454      3  310840 8.570E-12 0 0.00
  5      50        455      3  320720 2.010E-03 0 0.00
  5      50        456      3  320730 4.418E-03 0 0.00
  5      50        457      3  320731 1.629E-10 0 0.00
  5      50        458      3  320740 9.044E-03 0 0.00
  5      50        459      3  320750 6.519E-06 0 0.00
  5      50        460      3  320751 2.823E-09 0 0.00
  5      50        461      3  320760 4.732E-02 0 0.00
  5      50        462      3  320770 9.618E-05 0 0.00
  5      50        463      3  320771 2.911E-07 0 0.00
  5      50        464      3  320780 7.351E-05 0 0.00
  5      50        465      3  320790 1.305E-06 0 0.00
  5      50        466      3  320800 1.537E-06 0 0.00
  5      50        467      3  320810 8.165E-07 0 0.00
  5      50        468      3  320820 3.361E-07 0 0.00
  5      50        469      3  320830 1.026E-07 0 0.00
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  5      50        470      3  320840 1.886E-08 0 0.00
  5      50        471      3  320850 1.007E-09 0 0.00
  5      50        472      3  320860 2.135E-10 0 0.00
  5      50        473      3  320870 1.519E-11 0 0.00
  5      50        474      3  320880 5.930E-13 0 0.00
  5      50        475      3  330750 1.940E-02 0 0.00
  5      50        476      3  330760 1.103E-06 0 0.00
  5      50        477      3  330770 9.245E-04 0 0.00
  5      50        478      3  330780 7.847E-05 0 0.00
  5      50        479      3  330790 1.937E-05 0 0.00
  5      50        480      3  330800 1.310E-06 0 0.00
  5      50        481      3  330810 4.107E-06 0 0.00
  5      50        482      3  330820 2.536E-06 0 0.00
  5      50        483      3  330821 6.181E-07 0 0.00
  5      50        484      3  330830 3.008E-06 0 0.00
  5      50        485      3  330840 1.037E-06 0 0.00
  5      50        486      3  330850 2.254E-07 0 0.00
  5      50        487      3  330860 5.499E-08 0 0.00
  5      50        488      3  330870 9.687E-09 0 0.00
  5      50        489      3  330880 2.992E-10 0 0.00
  5      50        490      3  330890 3.104E-11 0 0.00
  5      50        491      3  340760 8.707E-05 0 0.00
  5      50        492      3  340770 9.945E-02 0 0.00
  5      50        493      3  340771 2.883E-10 0 0.00
  5      50        494      3  340780 2.126E-01 0 0.00
  5      50        495      3  340790 5.405E-01 0 0.00
  5      50        496      3  340791 8.382E-06 0 0.00
  5      50        497      3  340800 1.219E+00 0 0.00
  5      50        498      3  340810 1.515E-04 0 0.00
  5      50        499      3  340811 1.325E-05 0 0.00
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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:32:41
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                   CARD IMAGE
UNIT    UNIT     NUMBER
  5      50        500      3  340820 3.172E+00 0 0.00
  5      50        501      3  340830 1.678E-04 0 0.00
  5      50        502      3  340831 1.349E-05 0 0.00
  5      50        503      3  340840 1.109E-04 0 0.00
  5      50        504      3  340850 1.323E-05 0 0.00
  5      50        505      3  340851 4.714E-06 0 0.00
  5      50        506      3  340860 1.138E-05 0 0.00
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5	50	507	3	340870	3.066E-06	0	0.00
5	50	508	3	340880	3.182E-07	0	0.00
5	50	509	3	340890	2.524E-08	0	0.00
5	50	510	3	340900	1.102E-08	0	0.00
5	50	511	3	340910	5.185E-10	0	0.00
5	50	512	3	340920	3.369E-11	0	0.00
5	50	513	3	350790	2.948E-06	0	0.00
5	50	514	3	350800	1.683E-09	0	0.00
5	50	515	3	350801	1.678E-08	0	0.00
5	50	516	3	350810	2.078E+00	0	0.00
5	50	517	3	350820	3.262E-04	0	0.00
5	50	518	3	350821	3.359E-07	0	0.00
5	50	519	3	350830	2.775E-03	0	0.00
5	50	520	3	350840	1.102E-03	0	0.00
5	50	521	3	350841	6.380E-06	0	0.00
5	50	522	3	350850	1.218E-04	0	0.00
5	50	523	3	350860	2.865E-05	0	0.00
5	50	524	3	350861	2.359E-06	0	0.00
5	50	525	3	350870	6.706E-05	0	0.00
5	50	526	3	350880	2.177E-05	0	0.00
5	50	527	3	350890	4.381E-06	0	0.00
5	50	528	3	350900	1.031E-06	0	0.00
5	50	529	3	350910	1.331E-07	0	0.00
5	50	530	3	350920	6.214E-09	0	0.00
5	50	531	3	350930	7.972E-10	0	0.00
5	50	532	3	350940	3.644E-11	0	0.00
5	50	533	3	350950	2.946E-12	0	0.00
5	50	534	3	350960	1.148E-13	0	0.00
5	50	535	3	360800	1.546E-05	0	0.00
5	50	536	3	360810	8.136E-07	0	0.00
5	50	537	3	360811	5.842E-13	0	0.00
5	50	538	3	360820	2.093E-02	0	0.00
5	50	539	3	360830	4.806E+00	0	0.00
5	50	540	3	360831	2.125E-03	0	0.00
5	50	541	3	360840	9.896E+00	0	0.00
5	50	542	3	360850	2.432E+00	0	0.00
5	50	543	3	360851	1.156E-02	0	0.00
5	50	544	3	360860	1.839E+01	0	0.00
5	50	545	3	360870	6.526E-03	0	0.00
5	50	546	3	360880	2.082E-02	0	0.00
5	50	547	3	360890	4.836E-04	0	0.00
5	50	548	3	360900	8.216E-05	0	0.00
5	50	549	3	360910	1.664E-05	0	0.00

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41
LISTING OF INPUT DATA ON UNIT = 5

INPUT UNIT	WRITE UNIT	CARD NUMBER	CARD IMAGE
5	50	550	3 360920 1.688E-06 0 0.00
5	50	551	3 360930 4.241E-07 0 0.00
5	50	552	3 360940 2.734E-08 0 0.00
5	50	553	3 360950 7.501E-09 0 0.00
5	50	554	3 360960 1.065E-09 0 0.00
5	50	555	3 360970 2.033E-11 0 0.00
5	50	556	3 360980 3.775E-12 0 0.00
5	50	557	3 370850 9.250E+00 0 0.00
5	50	558	3 370860 1.247E-03 0 0.00
5	50	559	3 370861 1.207E-08 0 0.00
5	50	560	3 370870 2.368E+01 0 0.00
5	50	561	3 370880 2.204E-03 0 0.00
5	50	562	3 370890 2.456E-03 0 0.00
5	50	563	3 370900 4.060E-04 0 0.00
5	50	564	3 370901 1.547E-04 0 0.00
5	50	565	3 370910 1.915E-04 0 0.00
5	50	566	3 370920 1.283E-05 0 0.00
5	50	567	3 370930 1.262E-05 0 0.00
5	50	568	3 370940 3.056E-06 0 0.00
5	50	569	3 370950 2.127E-07 0 0.00
5	50	570	3 370960 3.388E-08 0 0.00
5	50	571	3 370970 5.323E-09 0 0.00
5	50	572	3 370980 9.931E-10 0 0.00
5	50	573	3 370990 5.311E-11 0 0.00
5	50	574	3 371000 6.136E-12 0 0.00
5	50	575	3 380860 5.881E-03 0 0.00
5	50	576	3 380870 9.965E-05 0 0.00
5	50	577	3 380871 4.543E-08 0 0.00
5	50	578	3 380880 3.402E+01 0 0.00
5	50	579	3 380890 1.094E+01 0 0.00
5	50	580	3 380900 5.337E+01 0 0.00
5	50	581	3 380910 1.195E-01 0 0.00
5	50	582	3 380920 3.670E-02 0 0.00
5	50	583	3 380930 1.899E-03 0 0.00
5	50	584	3 380940 3.009E-04 0 0.00
5	50	585	3 380950 9.693E-05 0 0.00
5	50	586	3 380960 1.040E-05 0 0.00

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  5      50        587      3  380970 2.770E-07 0 0.00
  5      50        588      3  380980 4.724E-07 0 0.00
  5      50        589      3  380990 8.527E-08 0 0.00
  5      50        590      3  381000 3.117E-08 0 0.00
  5      50        591      3  381010 1.084E-09 0 0.00
  5      50        592      3  381020 1.617E-10 0 0.00
  5      50        593      3  381030 1.722E-12 0 0.00
  5      50        594      3  381040 9.188E-14 0 0.00
  5      50        595      3  390890 3.370E+01 0 0.00
  5      50        596      3  390891 1.779E-11 0 0.00
  5      50        597      3  390900 1.368E-02 0 0.00
  5      50        598      3  390901 3.706E-07 0 0.00
  5      50        599      3  390910 1.593E+01 0 0.00
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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:32:41
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                  CARD IMAGE
UNIT    UNIT     NUMBER
  5      50        600      3  390911 6.047E-03 0 0.00
  5      50        601      3  390920 4.811E-02 0 0.00
  5      50        602      3  390930 1.569E-01 0 0.00
  5      50        603      3  390940 4.957E-03 0 0.00
  5      50        604      3  390950 2.924E-03 0 0.00
  5      50        605      3  390960 6.094E-04 0 0.00
  5      50        606      3  390970 4.230E-06 0 0.00
  5      50        607      3  390980 8.220E-07 0 0.00
  5      50        608      3  390990 1.261E-06 0 0.00
  5      50        609      3  391000 5.431E-07 0 0.00
  5      50        610      3  391010 2.321E-07 0 0.00
  5      50        611      3  391020 1.560E-08 0 0.00
  5      50        612      3  391030 2.874E-09 0 0.00
  5      50        613      3  391040 9.056E-11 0 0.00
  5      50        614      3  391050 5.874E-12 0 0.00
  5      50        615      3  400900 6.044E-01 0 0.00
  5      50        616      3  400910 4.095E+01 0 0.00
  5      50        617      3  400920 6.051E+01 0 0.00
  5      50        618      3  400930 6.760E+01 0 0.00
  5      50        619      3  400940 6.730E+01 0 0.00
  5      50        620      3  400950 2.238E+01 0 0.00
  5      50        621      3  400960 7.216E+01 0 0.00
  5      50        622      3  400970 2.858E-01 0 0.00
  5      50        623      3  400980 1.476E-04 0 0.00
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  5      50        624      3  400990 1.134E-05 0 0.00
  5      50        625      3  401000 3.135E-05 0 0.00
  5      50        626      3  401010 9.428E-06 0 0.00
  5      50        627      3  401020 4.532E-05 0 0.00
  5      50        628      3  401030 9.874E-07 0 0.00
  5      50        629      3  401040 4.375E-07 0 0.00
  5      50        630      3  401050 8.550E-09 0 0.00
  5      50        631      3  401060 2.000E-09 0 0.00
  5      50        632      3  401070 2.437E-11 0 0.00
  5      50        633      3  401080 1.358E-11 0 0.00
  5      50        634      3  401090 3.400E-13 0 0.00
  5      50        635      3  410930 1.492E-06 0 0.00
  5      50        636      3  410931 1.252E-05 0 0.00
  5      50        637      3  410940 4.937E-05 0 0.00
  5      50        638      3  410941 9.612E-10 0 0.00
  5      50        639      3  410950 1.086E+01 0 0.00
  5      50        640      3  410951 8.989E-03 0 0.00
  5      50        641      3  410960 3.320E-04 0 0.00
  5      50        642      3  410970 2.048E-02 0 0.00
  5      50        643      3  410971 2.672E-04 0 0.00
  5      50        644      3  410980 1.354E-05 0 0.00
  5      50        645      3  410981 1.314E-04 0 0.00
  5      50        646      3  410990 7.012E-05 0 0.00
  5      50        647      3  410991 2.859E-05 0 0.00
  5      50        648      3  411000 6.574E-06 0 0.00
  5      50        649      3  411001 6.601E-06 0 0.00
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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:32:41
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                    CARD IMAGE
UNIT    UNIT     NUMBER
  5      50        650      3  411010 3.148E-05 0 0.00
  5      50        651      3  411020 1.117E-05 0 0.00
  5      50        652      3  411030 3.886E-05 0 0.00
  5      50        653      3  411040 1.082E-06 0 0.00
  5      50        654      3  411050 6.126E-07 0 0.00
  5      50        655      3  411060 4.650E-08 0 0.00
  5      50        656      3  411070 8.372E-09 0 0.00
  5      50        657      3  411080 9.195E-10 0 0.00
  5      50        658      3  411090 2.380E-10 0 0.00
  5      50        659      3  411100 1.231E-11 0 0.00
  5      50        660      3  411110 1.314E-12 0 0.00
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5     50     661     3  420950 3.828E+01 0 0.00
5     50     662     3  420960 2.888E-01 0 0.00
5     50     663     3  420970 7.018E+01 0 0.00
5     50     664     3  420980 7.202E+01 0 0.00
5     50     665     3  420990 1.211E+00 0 0.00
5     50     666     3  421000 8.057E+01 0 0.00
5     50     667     3  421010 4.169E-03 0 0.00
5     50     668     3  421020 2.940E-03 0 0.00
5     50     669     3  421030 2.434E-04 0 0.00
5     50     670     3  421040 2.887E-04 0 0.00
5     50     671     3  421050 1.090E-04 0 0.00
5     50     672     3  421060 8.590E-06 0 0.00
5     50     673     3  421070 1.919E-06 0 0.00
5     50     674     3  421080 1.694E-07 0 0.00
5     50     675     3  421090 4.478E-08 0 0.00
5     50     676     3  421100 1.925E-08 0 0.00
5     50     677     3  421110 8.669E-10 0 0.00
5     50     678     3  421120 2.841E-10 0 0.00
5     50     679     3  421130 5.829E-12 0 0.00
5     50     680     3  421140 9.840E-13 0 0.00
5     50     681     3  421150 2.400E-14 0 0.00
5     50     682     3  430980 8.527E-05 0 0.00
5     50     683     3  430990 7.288E+01 0 0.00
5     50     684     3  430991 9.672E-02 0 0.00
5     50     685     3  431000 2.400E-06 0 0.00
5     50     686     3  431010 4.051E-03 0 0.00
5     50     687     3  431020 2.334E-05 0 0.00
5     50     688     3  431021 1.198E-06 0 0.00
5     50     689     3  431030 2.059E-04 0 0.00
5     50     690     3  431040 3.512E-03 0 0.00
5     50     691     3  431050 1.199E-03 0 0.00
5     50     692     3  431060 5.827E-05 0 0.00
5     50     693     3  431070 2.213E-05 0 0.00
5     50     694     3  431080 2.449E-06 0 0.00
5     50     695     3  431090 1.275E-05 0 0.00
5     50     696     3  431100 5.844E-08 0 0.00
5     50     697     3  431110 3.658E-08 0 0.00
5     50     698     3  431120 3.643E-09 0 0.00
5     50     699     3  431130 1.285E-09 0 0.00
```



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ORIGEN2 V2.2 (5-8-2002), Run on 07/27/10     at 06:32:41
LISTING OF INPUT DATA ON UNIT = 5
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INPUT UNIT	WRITE UNIT	CARD NUMBER	CARD IMAGE
5	50	700	3 431140 1.126E-10 0 0.00
5	50	701	3 431150 3.090E-11 0 0.00
5	50	702	3 431160 9.235E-13 0 0.00
5	50	703	3 431170 5.065E-14 0 0.00
5	50	704	3 440990 9.549E-05 0 0.00
5	50	705	3 441000 1.136E+00 0 0.00
5	50	706	3 441010 6.812E+01 0 0.00
5	50	707	3 441020 6.212E+01 0 0.00
5	50	708	3 441030 1.242E+01 0 0.00
5	50	709	3 441040 3.981E+01 0 0.00
5	50	710	3 441050 4.038E-02 0 0.00
5	50	711	3 441060 1.539E+01 0 0.00
5	50	712	3 441070 3.202E-04 0 0.00
5	50	713	3 441080 2.309E-04 0 0.00
5	50	714	3 441090 1.919E-05 0 0.00
5	50	715	3 441100 3.949E-06 0 0.00
5	50	716	3 441110 1.881E-06 0 0.00
5	50	717	3 441120 4.359E-08 0 0.00
5	50	718	3 441130 1.036E-07 0 0.00
5	50	719	3 441140 9.380E-08 0 0.00
5	50	720	3 441150 6.642E-09 0 0.00
5	50	721	3 441160 2.908E-09 0 0.00
5	50	722	3 441170 9.846E-11 0 0.00
5	50	723	3 441180 1.285E-09 0 0.00
5	50	724	3 441200 1.294E-13 0 0.00
5	50	725	3 451020 1.333E-05 0 0.00
5	50	726	3 451030 3.797E+01 0 0.00
5	50	727	3 451031 1.110E-02 0 0.00
5	50	728	3 451040 2.258E-05 0 0.00
5	50	729	3 451041 1.007E-05 0 0.00
5	50	730	3 451050 2.851E-01 0 0.00
5	50	731	3 451051 3.184E-05 0 0.00
5	50	732	3 451060 2.037E-05 0 0.00
5	50	733	3 451061 7.598E-04 0 0.00
5	50	734	3 451070 1.664E-03 0 0.00
5	50	735	3 451080 1.451E-05 0 0.00
5	50	736	3 451081 3.124E-06 0 0.00
5	50	737	3 451090 5.108E-05 0 0.00
5	50	738	3 451091 1.419E-05 0 0.00
5	50	739	3 451100 7.654E-06 0 0.00
5	50	740	3 451101 5.152E-08 0 0.00

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   5      50        741      3  451110 9.948E-06 0 0.00
   5      50        742      3  451120 4.264E-07 0 0.00
   5      50        743      3  451130 6.296E-08 0 0.00
   5      50        744      3  451140 7.671E-08 0 0.00
   5      50        745      3  451150 2.243E-07 0 0.00
   5      50        746      3  451160 1.531E-08 0 0.00
   5      50        747      3  451170 1.220E-08 0 0.00
   5      50        748      3  451180 4.793E-09 0 0.00
   5      50        749      3  451190 5.271E-10 0 0.00
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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:32:41
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE     CARD                                  CARD IMAGE
UNIT    UNIT      NUMBER
   5      50        750      3  451200 3.234E-11 0 0.00
   5      50        751      3  451210 7.020E-12 0 0.00
   5      50        752      3  451220 4.092E-13 0 0.00
   5      50        753      3  451230 4.489E-14 0 0.00
   5      50        754      3  461040 3.437E+00 0 0.00
   5      50        755      3  461050 2.554E+01 0 0.00
   5      50        756      3  461060 7.202E+00 0 0.00
   5      50        757      3  461070 1.280E+01 0 0.00
   5      50        758      3  461071 3.980E-10 0 0.00
   5      50        759      3  461080 8.515E+00 0 0.00
   5      50        760      3  461090 2.828E-02 0 0.00
   5      50        761      3  461091 7.996E-05 0 0.00
   5      50        762      3  461100 2.925E+00 0 0.00
   5      50        763      3  461110 2.115E-04 0 0.00
   5      50        764      3  461111 4.083E-05 0 0.00
   5      50        765      3  461120 6.947E-03 0 0.00
   5      50        766      3  461130 7.329E-06 0 0.00
   5      50        767      3  461140 8.821E-06 0 0.00
   5      50        768      3  461150 2.398E-06 0 0.00
   5      50        769      3  461160 6.966E-07 0 0.00
   5      50        770      3  461170 2.330E-07 0 0.00
   5      50        771      3  461180 1.208E-07 0 0.00
   5      50        772      3  461190 4.589E-08 0 0.00
   5      50        773      3  461200 4.745E-08 0 0.00
   5      50        774      3  461210 2.743E-09 0 0.00
   5      50        775      3  461220 1.742E-09 0 0.00
   5      50        776      3  461230 9.793E-11 0 0.00
   5      50        777      3  461240 3.254E-11 0 0.00
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  5      50        778      3  461260 2.347E-13 0 0.00
  5      50        779      3  471070 4.460E-07 0 0.00
  5      50        780      3  471080 9.478E-11 0 0.00
  5      50        781      3  471081 6.052E-08 0 0.00
  5      50        782      3  471090 5.264E+00 0 0.00
  5      50        783      3  471091 2.310E-05 0 0.00
  5      50        784      3  471100 1.489E-06 0 0.00
  5      50        785      3  471101 1.582E-02 0 0.00
  5      50        786      3  471110 1.035E-01 0 0.00
  5      50        787      3  471111 1.037E-05 0 0.00
  5      50        788      3  471120 1.084E-03 0 0.00
  5      50        789      3  471130 1.400E-03 0 0.00
  5      50        790      3  471131 5.438E-07 0 0.00
  5      50        791      3  471140 2.802E-07 0 0.00
  5      50        792      3  471150 5.655E-05 0 0.00
  5      50        793      3  471151 3.063E-07 0 0.00
  5      50        794      3  471160 4.402E-06 0 0.00
  5      50        795      3  471161 2.847E-07 0 0.00
  5      50        796      3  471170 2.022E-06 0 0.00
  5      50        797      3  471171 1.464E-07 0 0.00
  5      50        798      3  471180 1.388E-07 0 0.00
  5      50        799      3  471181 7.108E-08 0 0.00
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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:32:41
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                   CARD IMAGE
UNIT    UNIT     NUMBER
  5      50        800      3  471190 3.047E-07 0 0.00
  5      50        801      3  471200 4.335E-08 0 0.00
  5      50        802      3  471210 7.920E-08 0 0.00
  5      50        803      3  471220 1.669E-09 0 0.00
  5      50        804      3  471230 7.684E-09 0 0.00
  5      50        805      3  471240 1.080E-09 0 0.00
  5      50        806      3  471250 4.619E-10 0 0.00
  5      50        807      3  471260 5.695E-11 0 0.00
  5      50        808      3  471280 1.398E-12 0 0.00
  5      50        809      3  481080 3.982E-06 0 0.00
  5      50        810      3  481100 3.702E-01 0 0.00
  5      50        811      3  481110 1.749E+00 0 0.00
  5      50        812      3  481111 4.809E-09 0 0.00
  5      50        813      3  481120 1.204E+00 0 0.00
  5      50        814      3  481130 5.160E-02 0 0.00
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  5      50        815      3  481131 1.814E-02 0 0.00
  5      50        816      3  481140 1.841E+00 0 0.00
  5      50        817      3  481150 1.149E-02 0 0.00
  5      50        818      3  481151 2.003E-02 0 0.00
  5      50        819      3  481160 7.645E-01 0 0.00
  5      50        820      3  481170 3.404E-04 0 0.00
  5      50        821      3  481171 2.418E-04 0 0.00
  5      50        822      3  481180 1.687E-04 0 0.00
  5      50        823      3  481190 1.575E-05 0 0.00
  5      50        824      3  481191 5.361E-06 0 0.00
  5      50        825      3  481200 2.842E-06 0 0.00
  5      50        826      3  481210 7.188E-07 0 0.00
  5      50        827      3  481220 3.028E-07 0 0.00
  5      50        828      3  481230 4.479E-07 0 0.00
  5      50        829      3  481240 8.466E-07 0 0.00
  5      50        830      3  481250 5.525E-08 0 0.00
  5      50        831      3  481260 9.612E-08 0 0.00
  5      50        832      3  481270 8.307E-09 0 0.00
  5      50        833      3  481280 6.215E-09 0 0.00
  5      50        834      3  481290 7.141E-10 0 0.00
  5      50        835      3  481300 1.167E-09 0 0.00
  5      50        836      3  481310 4.289E-11 0 0.00
  5      50        837      3  481320 4.864E-12 0 0.00
  5      50        838      3  491130 3.185E-04 0 0.00
  5      50        839      3  491140 5.962E-11 0 0.00
  5      50        840      3  491141 1.110E-06 0 0.00
  5      50        841      3  491150 5.819E-01 0 0.00
  5      50        842      3  491151 9.263E-04 0 0.00
  5      50        843      3  491160 2.592E-07 0 0.00
  5      50        844      3  491161 4.711E-05 0 0.00
  5      50        845      3  491170 8.866E-05 0 0.00
  5      50        846      3  491171 2.969E-04 0 0.00
  5      50        847      3  491180 2.795E-07 0 0.00
  5      50        848      3  491181 5.065E-09 0 0.00
  5      50        849      3  491190 2.412E-06 0 0.00
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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:32:41
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE     CARD                                  CARD IMAGE
UNIT    UNIT      NUMBER
  5      50        850      3  491191 4.526E-05 0 0.00
  5      50        851      3  491200 1.264E-06 0 0.00
```

5	50	852	3	491201	8.769E-08	0	0.00
5	50	853	3	491210	1.332E-06	0	0.00
5	50	854	3	491211	2.335E-06	0	0.00
5	50	855	3	491220	5.882E-07	0	0.00
5	50	856	3	491221	5.654E-09	0	0.00
5	50	857	3	491230	2.918E-07	0	0.00
5	50	858	3	491231	9.620E-07	0	0.00
5	50	859	3	491240	2.542E-07	0	0.00
5	50	860	3	491250	1.131E-07	0	0.00
5	50	861	3	491251	4.218E-07	0	0.00
5	50	862	3	491260	1.702E-07	0	0.00
5	50	863	3	491270	1.227E-07	0	0.00
5	50	864	3	491271	2.236E-07	0	0.00
5	50	865	3	491280	3.870E-07	0	0.00
5	50	866	3	491290	6.811E-08	0	0.00
5	50	867	3	491300	5.511E-08	0	0.00
5	50	868	3	491310	1.154E-08	0	0.00
5	50	869	3	491320	1.262E-09	0	0.00
5	50	870	3	491330	1.340E-10	0	0.00
5	50	871	3	491340	5.192E-12	0	0.00
5	50	872	3	501140	3.976E-06	0	0.00
5	50	873	3	501150	2.994E-02	0	0.00
5	50	874	3	501160	2.663E-01	0	0.00
5	50	875	3	501170	7.797E-01	0	0.00
5	50	876	3	501171	1.948E-05	0	0.00
5	50	877	3	501180	7.828E-01	0	0.00
5	50	878	3	501190	7.700E-01	0	0.00
5	50	879	3	501191	7.857E-03	0	0.00
5	50	880	3	501200	7.952E-01	0	0.00
5	50	881	3	501210	5.734E-03	0	0.00
5	50	882	3	501211	2.508E-04	0	0.00
5	50	883	3	501220	8.801E-01	0	0.00
5	50	884	3	501230	1.022E-01	0	0.00
5	50	885	3	501231	1.377E-04	0	0.00
5	50	886	3	501240	1.184E+00	0	0.00
5	50	887	3	501250	4.029E-02	0	0.00
5	50	888	3	501251	4.434E-05	0	0.00
5	50	889	3	501260	2.347E+00	0	0.00
5	50	890	3	501270	1.772E-03	0	0.00
5	50	891	3	501271	2.785E-05	0	0.00
5	50	892	3	501280	2.088E-03	0	0.00
5	50	893	3	501290	1.720E-04	0	0.00
5	50	894	3	501291	6.916E-05	0	0.00

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   5      50        895      3  501300 2.859E-04 0 0.00
   5      50        896      3  501310 7.295E-05 0 0.00
   5      50        897      3  501320 2.628E-05 0 0.00
   5      50        898      3  501330 3.009E-07 0 0.00
   5      50        899      3  501340 2.326E-08 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:32:41
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                    CARD IMAGE
UNIT    UNIT     NUMBER
   5      50        900      3  501350 9.596E-10 0 0.00
   5      50        901      3  501360 1.203E-10 0 0.00
   5      50        902      3  511210 8.167E-01 0 0.00
   5      50        903      3  511220 2.710E-04 0 0.00
   5      50        904      3  511221 2.641E-09 0 0.00
   5      50        905      3  511230 8.877E-01 0 0.00
   5      50        906      3  511240 2.693E-03 0 0.00
   5      50        907      3  511241 2.238E-09 0 0.00
   5      50        908      3  511250 1.482E+00 0 0.00
   5      50        909      3  511260 2.927E-03 0 0.00
   5      50        910      3  511261 1.731E-06 0 0.00
   5      50        911      3  511270 1.228E-01 0 0.00
   5      50        912      3  511280 1.590E-03 0 0.00
   5      50        913      3  511281 3.971E-04 0 0.00
   5      50        914      3  511290 1.760E-02 0 0.00
   5      50        915      3  511300 8.720E-04 0 0.00
   5      50        916      3  511301 6.414E-04 0 0.00
   5      50        917      3  511310 4.246E-03 0 0.00
   5      50        918      3  511320 3.153E-04 0 0.00
   5      50        919      3  511321 3.058E-04 0 0.00
   5      50        920      3  511330 3.267E-04 0 0.00
   5      50        921      3  511340 3.907E-06 0 0.00
   5      50        922      3  511341 3.506E-06 0 0.00
   5      50        923      3  511350 3.765E-07 0 0.00
   5      50        924      3  511360 1.011E-08 0 0.00
   5      50        925      3  511370 1.844E-09 0 0.00
   5      50        926      3  511380 1.077E-10 0 0.00
   5      50        927      3  511390 1.059E-11 0 0.00
   5      50        928      3  521220 8.097E-03 0 0.00
   5      50        929      3  521230 2.371E-05 0 0.00
   5      50        930      3  521231 6.395E-06 0 0.00
   5      50        931      3  521240 3.260E-03 0 0.00
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  5      50        932      3  521250 1.313E-01 0 0.00
  5      50        933      3  521251 1.362E-02 0 0.00
  5      50        934      3  521260 4.548E-02 0 0.00
  5      50        935      3  521270 1.180E-02 0 0.00
  5      50        936      3  521271 3.135E-01 0 0.00
  5      50        937      3  521280 9.209E+00 0 0.00
  5      50        938      3  521290 4.613E-03 0 0.00
  5      50        939      3  521291 4.430E-01 0 0.00
  5      50        940      3  521300 2.961E+01 0 0.00
  5      50        941      3  521310 4.660E-03 0 0.00
  5      50        942      3  521311 5.624E-02 0 0.00
  5      50        943      3  521320 1.476E+00 0 0.00
  5      50        944      3  521330 3.346E-03 0 0.00
  5      50        945      3  521331 9.731E-03 0 0.00
  5      50        946      3  521340 1.657E-02 0 0.00
  5      50        947      3  521350 6.550E-05 0 0.00
  5      50        948      3  521360 3.946E-05 0 0.00
  5      50        949      3  521370 1.827E-06 0 0.00
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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:32:41
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                   CARD IMAGE
UNIT    UNIT     NUMBER
  5      50        950      3  521380 2.216E-07 0 0.00
  5      50        951      3  521390 1.137E-08 0 0.00
  5      50        952      3  521400 2.531E-09 0 0.00
  5      50        953      3  521410 3.619E-11 0 0.00
  5      50        954      3  521420 7.969E-12 0 0.00
  5      50        955      3  531270 4.281E+00 0 0.00
  5      50        956      3  531280 7.576E-06 0 0.00
  5      50        957      3  531290 1.500E+01 0 0.00
  5      50        958      3  531300 9.507E-04 0 0.00
  5      50        959      3  531301 4.593E-06 0 0.00
  5      50        960      3  531310 2.537E+00 0 0.00
  5      50        961      3  531320 4.405E-02 0 0.00
  5      50        962      3  531330 5.765E-01 0 0.00
  5      50        963      3  531331 1.975E-06 0 0.00
  5      50        964      3  531340 2.685E-02 0 0.00
  5      50        965      3  531341 1.686E-04 0 0.00
  5      50        966      3  531350 1.725E-01 0 0.00
  5      50        967      3  531360 2.870E-04 0 0.00
  5      50        968      3  531361 9.582E-05 0 0.00
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  5      50        969      3  531370 8.599E-05 0 0.00
  5      50        970      3  531380 1.143E-05 0 0.00
  5      50        971      3  531390 1.976E-06 0 0.00
  5      50        972      3  531400 2.091E-07 0 0.00
  5      50        973      3  531410 1.631E-08 0 0.00
  5      50        974      3  531420 1.122E-09 0 0.00
  5      50        975      3  531430 1.211E-10 0 0.00
  5      50        976      3  531440 4.061E-12 0 0.00
  5      50        977      3  541280 3.299E-02 0 0.00
  5      50        978      3  541290 4.177E-05 0 0.00
  5      50        979      3  541291 3.005E-07 0 0.00
  5      50        980      3  541300 1.669E-01 0 0.00
  5      50        981      3  541310 4.673E+01 0 0.00
  5      50        982      3  541311 4.168E-02 0 0.00
  5      50        983      3  541320 7.820E+01 0 0.00
  5      50        984      3  541330 3.490E+00 0 0.00
  5      50        985      3  541331 4.504E-02 0 0.00
  5      50        986      3  541340 1.280E+02 0 0.00
  5      50        987      3  541341 1.517E-08 0 0.00
  5      50        988      3  541350 6.534E-02 0 0.00
  5      50        989      3  541351 1.371E-03 0 0.00
  5      50        990      3  541360 1.964E+02 0 0.00
  5      50        991      3  541370 1.583E-03 0 0.00
  5      50        992      3  541380 5.703E-03 0 0.00
  5      50        993      3  541390 2.102E-04 0 0.00
  5      50        994      3  541400 4.873E-05 0 0.00
  5      50        995      3  541410 2.147E-06 0 0.00
  5      50        996      3  541420 5.442E-07 0 0.00
  5      50        997      3  541430 2.179E-08 0 0.00
  5      50        998      3  541440 1.308E-08 0 0.00
  5      50        999      3  541450 1.243E-09 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:32:41
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                   CARD IMAGE
UNIT    UNIT     NUMBER
  5      50       1000      3  541460 8.757E-11 0 0.00
  5      50       1001      3  541470 2.222E-12 0 0.00
  5      50       1002      3  551320 9.400E-05 0 0.00
  5      50       1003      3  551330 1.070E+02 0 0.00
  5      50       1004      3  551340 2.759E+00 0 0.00
  5      50       1005      3  551341 3.942E-04 0 0.00
```

5	50	1006	3	551350	2.908E+01	0	0.00
5	50	1007	3	551351	2.067E-05	0	0.00
5	50	1008	3	551360	7.820E-02	0	0.00
5	50	1009	3	551370	1.055E+02	0	0.00
5	50	1010	3	551380	1.431E-02	0	0.00
5	50	1011	3	551381	5.833E-05	0	0.00
5	50	1012	3	551390	3.986E-03	0	0.00
5	50	1013	3	551400	4.092E-04	0	0.00
5	50	1014	3	551410	1.218E-04	0	0.00
5	50	1015	3	551420	5.126E-06	0	0.00
5	50	1016	3	551430	2.610E-06	0	0.00
5	50	1017	3	551440	4.228E-07	0	0.00
5	50	1018	3	551450	5.979E-08	0	0.00
5	50	1019	3	551460	2.986E-09	0	0.00
5	50	1020	3	551470	1.509E-09	0	0.00
5	50	1021	3	551480	3.564E-11	0	0.00
5	50	1022	3	551500	2.102E-14	0	0.00
5	50	1023	3	561320	2.426E-05	0	0.00
5	50	1024	3	561340	2.411E-01	0	0.00
5	50	1025	3	561350	2.729E-04	0	0.00
5	50	1026	3	561351	5.238E-07	0	0.00
5	50	1027	3	561360	5.936E-01	0	0.00
5	50	1028	3	561361	3.507E-09	0	0.00
5	50	1029	3	561370	9.951E-01	0	0.00
5	50	1030	3	561371	1.625E-05	0	0.00
5	50	1031	3	561380	1.130E+02	0	0.00
5	50	1032	3	561390	3.605E-02	0	0.00
5	50	1033	3	561400	7.732E+00	0	0.00
5	50	1034	3	561410	7.397E-03	0	0.00
5	50	1035	3	561420	4.169E-03	0	0.00
5	50	1036	3	561430	7.865E-05	0	0.00
5	50	1037	3	561440	4.912E-05	0	0.00
5	50	1038	3	561450	1.407E-05	0	0.00
5	50	1039	3	561460	1.847E-06	0	0.00
5	50	1040	3	561470	4.362E-07	0	0.00
5	50	1041	3	561480	2.058E-07	0	0.00
5	50	1042	3	561490	3.652E-09	0	0.00
5	50	1043	3	561500	5.432E-10	0	0.00
5	50	1044	3	561520	6.287E-13	0	0.00
5	50	1045	3	571380	7.358E-04	0	0.00
5	50	1046	3	571390	1.088E+02	0	0.00
5	50	1047	3	571400	1.019E+00	0	0.00
5	50	1048	3	571410	9.592E-02	0	0.00

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   5      50        1049      3  571420 3.694E-02 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:32:41
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                  CARD IMAGE
UNIT    UNIT     NUMBER
   5      50        1050      3  571430 5.422E-03 0 0.00
   5      50        1051      3  571440 2.309E-04 0 0.00
   5      50        1052      3  571450 1.206E-04 0 0.00
   5      50        1053      3  571460 2.242E-05 0 0.00
   5      50        1054      3  571470 1.314E-05 0 0.00
   5      50        1055      3  571480 6.398E-07 0 0.00
   5      50        1056      3  571490 3.468E-07 0 0.00
   5      50        1057      3  571500 1.499E-08 0 0.00
   5      50        1058      3  571510 2.845E-09 0 0.00
   5      50        1059      3  571520 1.085E-10 0 0.00
   5      50        1060      3  571530 1.655E-11 0 0.00
   5      50        1061      3  571540 3.119E-13 0 0.00
   5      50        1062      3  581400 9.909E+01 0 0.00
   5      50        1063      3  581410 1.797E+01 0 0.00
   5      50        1064      3  581420 1.003E+02 0 0.00
   5      50        1065      3  581430 7.701E-01 0 0.00
   5      50        1066      3  581440 6.426E+01 0 0.00
   5      50        1067      3  581450 8.021E-04 0 0.00
   5      50        1068      3  581460 3.014E-03 0 0.00
   5      50        1069      3  581470 1.904E-04 0 0.00
   5      50        1070      3  581480 8.454E-05 0 0.00
   5      50        1071      3  581490 1.074E-06 0 0.00
   5      50        1072      3  581500 4.799E-07 0 0.00
   5      50        1073      3  581510 1.418E-07 0 0.00
   5      50        1074      3  581520 4.446E-07 0 0.00
   5      50        1075      3  581530 1.008E-08 0 0.00
   5      50        1076      3  581540 2.503E-09 0 0.00
   5      50        1077      3  581550 5.987E-11 0 0.00
   5      50        1078      3  581560 9.422E-12 0 0.00
   5      50        1079      3  581570 2.353E-13 0 0.00
   5      50        1080      3  591400 2.510E-09 0 0.00
   5      50        1081      3  591410 8.284E+01 0 0.00
   5      50        1082      3  591420 2.834E-03 0 0.00
   5      50        1083      3  591421 7.699E-06 0 0.00
   5      50        1084      3  591430 7.433E+00 0 0.00
   5      50        1085      3  591440 2.738E-03 0 0.00
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  5      50       1086      3  591441 1.358E-05 0 0.00
  5      50       1087      3  591450 9.597E-02 0 0.00
  5      50       1088      3  591460 5.155E-03 0 0.00
  5      50       1089      3  591470 2.011E-03 0 0.00
  5      50       1090      3  591480 3.016E-04 0 0.00
  5      50       1091      3  591490 2.070E-04 0 0.00
  5      50       1092      3  591500 1.193E-05 0 0.00
  5      50       1093      3  591510 2.099E-06 0 0.00
  5      50       1094      3  591520 1.899E-06 0 0.00
  5      50       1095      3  591530 5.586E-07 0 0.00
  5      50       1096      3  591540 2.204E-08 0 0.00
  5      50       1097      3  591550 6.574E-09 0 0.00
  5      50       1098      3  591560 3.357E-10 0 0.00
  5      50       1099      3  591570 7.375E-11 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:32:41
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                   CARD IMAGE
UNIT    UNIT     NUMBER
  5      50       1100      3  591580 2.227E-12 0 0.00
  5      50       1101      3  591590 1.081E-13 0 0.00
  5      50       1102      3  601420 2.751E-01 0 0.00
  5      50       1103      3  601430 8.433E+01 0 0.00
  5      50       1104      3  601440 3.282E+01 0 0.00
  5      50       1105      3  601450 6.616E+01 0 0.00
  5      50       1106      3  601460 5.505E+01 0 0.00
  5      50       1107      3  601470 2.660E+00 0 0.00
  5      50       1108      3  601480 3.235E+01 0 0.00
  5      50       1109      3  601490 9.554E-03 0 0.00
  5      50       1110      3  601500 1.466E+01 0 0.00
  5      50       1111      3  601510 5.636E-04 0 0.00
  5      50       1112      3  601520 3.603E-04 0 0.00
  5      50       1113      3  601530 2.049E-05 0 0.00
  5      50       1114      3  601540 5.937E-06 0 0.00
  5      50       1115      3  601550 1.465E-06 0 0.00
  5      50       1116      3  601560 1.116E-06 0 0.00
  5      50       1117      3  601570 2.225E-08 0 0.00
  5      50       1118      3  601580 6.511E-09 0 0.00
  5      50       1119      3  601590 1.229E-10 0 0.00
  5      50       1120      3  601600 1.660E-11 0 0.00
  5      50       1121      3  601610 3.404E-13 0 0.00
  5      50       1122      3  611460 1.741E-04 0 0.00
```

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   5      50        1123      3  611470 2.708E+01 0 0.00
   5      50        1124      3  611480 2.787E-01 0 0.00
   5      50        1125      3  611481 2.753E-01 0 0.00
   5      50        1126      3  611490 3.132E-01 0 0.00
   5      50        1127      3  611500 1.141E-04 0 0.00
   5      50        1128      3  611510 7.767E-02 0 0.00
   5      50        1129      3  611520 1.314E-04 0 0.00
   5      50        1130      3  611521 4.384E-06 0 0.00
   5      50        1131      3  611530 1.115E-04 0 0.00
   5      50        1132      3  611540 3.067E-05 0 0.00
   5      50        1133      3  611541 3.350E-06 0 0.00
   5      50        1134      3  611550 4.126E-06 0 0.00
   5      50        1135      3  611560 7.733E-07 0 0.00
   5      50        1136      3  611570 1.863E-06 0 0.00
   5      50        1137      3  611580 3.233E-08 0 0.00
   5      50        1138      3  611590 8.069E-09 0 0.00
   5      50        1139      3  611600 3.547E-10 0 0.00
   5      50        1140      3  611610 5.323E-11 0 0.00
   5      50        1141      3  611620 8.928E-13 0 0.00
   5      50        1142      3  621460 3.464E-05 0 0.00
   5      50        1143      3  621470 3.181E+00 0 0.00
   5      50        1144      3  621480 5.777E+00 0 0.00
   5      50        1145      3  621490 6.226E-01 0 0.00
   5      50        1146      3  621500 2.166E+01 0 0.00
   5      50        1147      3  621510 3.684E+00 0 0.00
   5      50        1148      3  621520 1.238E+01 0 0.00
   5      50        1149      3  621530 1.095E-01 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:32:41
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE     CARD                                  CARD IMAGE
UNIT    UNIT      NUMBER
   5      50        1150      3  621540 2.623E+00 0 0.00
   5      50        1151      3  621550 1.698E-04 0 0.00
   5      50        1152      3  621560 2.701E-03 0 0.00
   5      50        1153      3  621570 2.428E-05 0 0.00
   5      50        1154      3  621580 6.931E-05 0 0.00
   5      50        1155      3  621590 1.935E-06 0 0.00
   5      50        1156      3  621600 1.592E-06 0 0.00
   5      50        1157      3  621610 1.640E-08 0 0.00
   5      50        1158      3  621620 3.674E-09 0 0.00
   5      50        1159      3  621630 5.991E-11 0 0.00
```

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5     50     1160     3  621640 9.668E-12 0 0.00
5     50     1161     3  621650 1.409E-13 0 0.00
5     50     1162     3  631510 4.650E-03 0 0.00
5     50     1163     3  631520 6.292E-03 0 0.00
5     50     1164     3  631521 1.197E-05 0 0.00
5     50     1165     3  631530 5.557E+00 0 0.00
5     50     1166     3  631540 7.176E-01 0 0.00
5     50     1167     3  631550 3.107E-01 0 0.00
5     50     1168     3  631560 2.728E-01 0 0.00
5     50     1169     3  631570 3.111E-03 0 0.00
5     50     1170     3  631580 7.768E-05 0 0.00
5     50     1171     3  631590 1.587E-05 0 0.00
5     50     1172     3  631600 3.539E-07 0 0.00
5     50     1173     3  631610 1.290E-07 0 0.00
5     50     1174     3  631620 2.698E-07 0 0.00
5     50     1175     3  631630 3.679E-09 0 0.00
5     50     1176     3  631640 1.191E-10 0 0.00
5     50     1177     3  631650 2.388E-11 0 0.00
5     50     1178     3  641520 1.910E-03 0 0.00
5     50     1179     3  641530 3.491E-04 0 0.00
5     50     1180     3  641540 1.426E-02 0 0.00
5     50     1181     3  641550 2.096E-03 0 0.00
5     50     1182     3  641560 1.908E+00 0 0.00
5     50     1183     3  641570 1.407E-02 0 0.00
5     50     1184     3  641580 8.949E-01 0 0.00
5     50     1185     3  641590 1.019E-03 0 0.00
5     50     1186     3  641600 7.271E-02 0 0.00
5     50     1187     3  641610 7.840E-07 0 0.00
5     50     1188     3  641620 1.102E-06 0 0.00
5     50     1189     3  641630 7.076E-08 0 0.00
5     50     1190     3  641640 4.171E-07 0 0.00
5     50     1191     3  641650 1.147E-08 0 0.00
5     50     1192     3  651590 1.486E-01 0 0.00
5     50     1193     3  651600 1.839E-03 0 0.00
5     50     1194     3  651610 2.134E-03 0 0.00
5     50     1195     3  651620 8.153E-07 0 0.00
5     50     1196     3  651621 4.534E-07 0 0.00
5     50     1197     3  651630 9.642E-07 0 0.00
5     50     1198     3  651640 7.118E-08 0 0.00
5     50     1199     3  651650 5.967E-09 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:32:41
LISTING OF INPUT DATA ON UNIT = 5
```

```
INPUT   WRITE    CARD                                   CARD IMAGE
UNIT    UNIT     NUMBER
  5      50       1200      3  661600 1.494E-03 0 0.00
  5      50       1201      3  661610 3.140E-02 0 0.00
  5      50       1202      3  661620 2.102E-02 0 0.00
  5      50       1203      3  661630 1.051E-02 0 0.00
  5      50       1204      3  661640 3.232E-03 0 0.00
  5      50       1205      3  661650 3.973E-06 0 0.00
  5      50       1206      3  661651 1.627E-08 0 0.00
  5      50       1207      3  661660 3.334E-05 0 0.00
  5      50       1208      3  671650 3.962E-03 0 0.00
  5      50       1209      3  671660 1.350E-05 0 0.00
  5      50       1210      3  671661 8.320E-06 0 0.00
  5      50       1211      3  681660 1.368E-03 0 0.00
  5      50       1212      3  681670 4.507E-04 0 0.00
  5      50       1213      3  681671 1.852E-12 0 0.00
  5      50       1214      3  681680 1.821E-04 0 0.00
  5      50       1215      0
```

OUTPUT UNIT = 6 PAGE 28

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41
NEUTRON YIELD PER NEUTRON-INDUCED FISSION

NUCLIDE	YIELD	NUCLIDE	YIELD	NUCLIDE	YIELD	NUCLIDE	YIELD	NUCLIDE	YIELD	NUCLIDE	YIELD
832090	0.0000	882230	0.0000	882260	0.0000	882280	0.0000	892270	0.0000	902270	0.0000
902280	0.0000	902290	2.0490	902300	0.0000	902320	2.4180	902330	0.0000	902340	0.0000
912310	0.0000	912320	0.0000	912330	2.6630	912341	0.0000	912340	0.0000	922300	0.0000
922310	0.0000	922320	0.0000	922330	2.4990	922340	2.6310	922350	2.4210	922360	2.7340
922370	0.0000	922380	2.8010	922390	0.0000	922400	0.0000	932360	0.0000	932370	3.0050
932380	0.0000	932390	0.0000	942360	2.8700	942370	0.0000	942380	2.8330	942390	2.8750
942400	3.1350	942410	2.9340	942420	3.2800	942430	0.0000	952410	3.2770	952421	3.1620
952420	3.3600	952430	3.7320	952441	0.0000	952440	0.0000	962420	3.7460	962430	3.4340
962440	3.7250	962450	3.8320	962460	3.8580	962470	3.5920	962480	3.7960	962490	0.0000

972490	3.7600	982490	4.0620	982500	3.9700	982510	4.1400	982520	4.1260	982530	4.1500
982540	0.0000	992530	0.0000	992541	0.0000	992540	0.0000	0	0.0000	0	0.0000

OUTPUT UNIT = 6 PAGE 29

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41
SPONTANEOUS FISSION NEUTRON YIELD, NEUT/FISSION

NUCLIDE		NUCLIDE		NUCLIDE		NUCLIDE		NUCLIDE		NUCLIDE	
922350	1.6950	922360	1.6500	922370	1.8720	922380	2.0000	922390	2.0480	932361	1.7900
932360	1.7830	932370	1.8730	932380	1.9630	932390	2.0530	942360	2.2200	942370	1.8860
942380	2.2800	942390	2.2400	942400	2.1600	942410	2.2500	942420	2.1500	942430	2.4300
942440	2.3000	952400	2.2900	952410	2.3830	952420	2.4750	952421	2.5900	952430	2.5200
952440	2.6570	952441	2.6650	962410	2.5000	962420	2.5900	962430	2.6870	962440	2.7600
962450	2.8720	962460	3.0000	962480	3.3200	962500	3.5600	972490	3.7200	982490	3.4400
982500	3.5600	982520	3.7250	982540	3.9000	992530	3.9200	992540	4.0400	992550	4.1600

THE REMAINING NEUTRON YIELDS ARE CALCULATED FROM THE EQUATION: NEUT/FISS=(2.84+0.1225*(AT WT-244)

OUTPUT UNIT = 6 PAGE 30

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41
INDIVIDUAL ELEMENT FRACTIONAL RECOVERIES

ELEMENT	SET NUMBER 1	SET NUMBER 2	SET NUMBER 3	SET NUMBER 4	SET NUMBER 5	SET NUMBER 6	SET NUMBER 7	SET NUMBER 8	SET NUMBER 9	SET NUMBER 10
1	0.0000000	0.0000000	0.0005000	0.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.9000000	1.0000000
2	0.0000000	0.0000000	0.0005000	0.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.0000000	1.0000000
3	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
4	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
5	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
6	0.0000000	0.0000000	0.0005000	0.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.0000000	1.0000000
7	0.0000000	0.0000000	0.0005000	0.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.0000000	1.0000000
8	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
9	0.0000000	0.0010000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
10	0.0000000	0.0000000	0.0005000	0.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.0000000	1.0000000
11	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
12	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
13	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
14	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
15	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
16	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
17	0.0000000	0.0010000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
18	0.0000000	0.0000000	0.0005000	0.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.0000000	1.0000000
19	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
20	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000

21	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
22	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
23	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
24	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
25	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
26	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
27	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
28	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
29	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
30	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
31	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
32	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
33	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
34	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
35	0.0000000	0.0010000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
36	0.0000000	0.0000000	0.0005000	0.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.0000000	1.0000000
37	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
38	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
39	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
40	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
41	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
42	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
43	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
44	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
45	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
46	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
47	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
48	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
49	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000

OUTPUT UNIT = 6 PAGE 31

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41
INDIVIDUAL ELEMENT FRACTIONAL RECOVERIES

ELEMENT	SET NUMBER 1	SET NUMBER 2	SET NUMBER 3	SET NUMBER 4	SET NUMBER 5	SET NUMBER 6	SET NUMBER 7	SET NUMBER 8	SET NUMBER 9	SET NUMBER 10
50	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
51	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
52	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
53	0.0000000	0.0010000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
54	0.0000000	0.0000000	0.0005000	0.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.0000000	1.0000000
55	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
56	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
57	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000

58	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
59	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
60	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
61	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
62	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
63	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
64	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
65	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
66	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
67	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
68	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
69	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
70	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
71	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
72	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
73	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
74	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
75	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
76	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
77	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
78	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
79	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
80	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
81	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
82	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
83	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
84	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
85	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
86	0.0000000	0.0000000	0.0005000	0.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.0000000	1.0000000
87	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
88	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
89	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
90	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
91	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
92	0.0000000	1.0000000	0.0005000	0.9990000	1.0000000	0.2000000	0.6000000	1.0000000	0.0000000	1.0000000
93	0.0000000	1.0000000	0.0005000	0.0000000	0.0500000	0.0500000	0.0000000	0.0000000	0.0000000	1.0000000
94	1.0000000	1.0000000	0.0005000	0.9999000	1.0000000	0.0200000	0.0000000	0.0000000	0.0000000	1.0000000
95	0.0000000	1.0000000	0.0005000	0.0000000	0.0010000	0.0010000	0.0000000	0.0000000	0.0000000	1.0000000
96	0.0000000	1.0000000	0.0005000	0.0000000	0.0010000	0.0010000	0.0000000	0.0000000	0.0000000	1.0000000
97	0.0000000	1.0000000	0.0005000	0.0000000	0.0010000	0.0010000	0.0000000	0.0000000	0.0000000	1.0000000
98	0.0000000	1.0000000	0.0005000	0.0000000	0.0010000	0.0010000	0.0000000	0.0000000	0.0000000	1.0000000
99	0.0000000	1.0000000	0.0005000	0.0000000	0.0010000	0.0010000	0.0000000	0.0000000	0.0000000	1.0000000

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41
GROUP FRACTIONAL RECOVERIES

GROUP	SET NUMBER 1	SET NUMBER 2	SET NUMBER 3	SET NUMBER 4	SET NUMBER 5	SET NUMBER 6	SET NUMBER 7	SET NUMBER 8	SET NUMBER 9	SET NUMBER 10
1	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.0000000
2	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.0000000	0.0000000
3	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.0000000	0.0000000
4	0.9950000	1.0000000	0.0005000	0.9990000	1.0000000	0.2000000	0.6000000	1.0000000	0.0000000	0.0000000
5	0.0000000	1.0000000	0.0005000	0.0000000	0.0500000	0.0500000	0.0000000	0.0000000	0.0000000	0.0000000
6	0.9950000	1.0000000	0.0005000	0.9999000	1.0000000	0.0200000	0.0000000	0.0000000	0.0000000	0.0000000
7	0.0000000	1.0000000	0.0005000	0.0000000	0.0010000	0.0010000	0.0000000	0.0000000	0.0000000	0.0000000
8	0.0000000	1.0000000	0.0005000	0.0000000	0.0010000	0.0010000	0.0000000	0.0000000	0.0000000	0.0000000
9	0.0000000	1.0000000	0.0005000	0.0000000	0.0010000	0.0010000	0.0000000	0.0000000	0.0000000	0.0000000
10	0.0000000	1.0000000	0.0005000	0.0000000	0.0010000	0.0010000	0.0000000	0.0000000	0.0000000	0.0000000
11	0.0000000	1.0000000	0.0005000	0.0000000	0.0010000	0.0010000	0.0000000	0.0000000	0.0000000	0.0000000
12	0.0000000	0.0010000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.0000000
13	0.0000000	0.0000000	0.0005000	0.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.0000000	0.0000000
14	0.0000000	0.0000000	0.0005000	0.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.9000000	0.0000000
15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
16	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
17	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
18	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
19	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

OUTPUT UNIT = 6 PAGE 33

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41
ELEMENT ASSIGNMENTS TO FRACTIONAL RECOVERY GROUPS

ELEM	GROUP	ELEM	GROUP	ELEM	GROUP	ELEM	GROUP	ELEM	GROUP	ELEM	GROUP	ELEM	GROUP	ELEM	GROUP	ELEM	GROUP
1	14	2	13	3	1	4	1	5	1	6	13	7	13	8	1	9	12
10	13	11	1	12	1	13	1	14	1	15	1	16	1	17	12	18	13
19	1	20	1	21	1	22	1	23	1	24	1	25	1	26	1	27	1
28	1	29	1	30	1	31	1	32	1	33	1	34	1	35	12	36	13
37	1	38	1	39	1	40	1	41	1	42	1	43	1	44	1	45	1
46	1	47	1	48	1	49	1	50	1	51	1	52	1	53	12	54	13
55	1	56	1	57	1	58	1	59	1	60	1	61	1	62	1	63	1
64	1	65	1	66	1	67	1	68	1	69	1	70	1	71	1	72	1
73	1	74	1	75	1	76	1	77	1	78	1	79	1	80	1	81	1
82	1	83	1	84	1	85	1	86	13	87	1	88	1	89	1	90	2
91	3	92	4	93	5	94	6	95	7	96	8	97	9	98	10	99	11

OUTPUT UNIT = 6 PAGE 34

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

CHEMICAL TOXICITIES, GRAMS PER M**3 WATER

NUCLIDE	TOXICITY	NUCLIDE	TOXICITY	NUCLIDE	TOXICITY	NUCLIDE	TOXICITY	NUCLIDE	TOXICITY	NUCLIDE	TOXICITY
1	3.50E+03	2	2.00E-01	3	5.00E+00	4	1.00E+00	5	1.00E+00	6	4.00E+02
7	1.00E-02	8	9.45E+05	9	1.00E+00	10	1.00E+00	11	1.00E+03	12	1.00E+01
13	1.00E-02	14	5.00E+00	15	1.00E-02	16	5.00E+01	17	1.50E-01	18	1.00E+01
19	1.00E+03	20	3.00E+01	21	5.00E-01	22	1.00E-01	23	1.00E-01	24	2.00E-02
25	1.00E-02	26	5.00E-02	27	5.00E-02	28	5.00E-02	29	1.00E-02	30	5.00E-02
31	2.00E-01	32	5.00E-01	33	1.00E-02	34	1.00E-02	35	3.00E+00	36	4.00E+01
37	5.00E+01	38	1.00E+01	39	1.00E-03	40	1.00E+00	41	2.00E-02	42	5.00E-01
43	1.00E+02	44	1.00E+00	45	5.00E-02	46	5.00E-02	47	1.00E-03	48	1.00E-02
49	2.00E-02	50	5.00E-02	51	5.00E-02	52	2.00E-01	53	1.00E+01	54	1.50E+02
55	5.00E+00	56	5.00E-01	57	1.00E+00	58	2.00E+00	59	1.00E+00	60	2.00E-01
61	1.00E+00	62	2.00E-01	63	2.00E-01	64	2.00E-01	65	5.00E-01	66	1.00E+00
67	1.00E+00	68	1.00E-01	69	2.00E-01	70	1.00E-01	71	1.00E-01	72	5.00E-02
73	1.00E+00	74	1.00E+02	75	1.00E+01	76	1.00E+00	77	8.00E-01	78	3.00E-01
79	2.00E-02	80	2.00E-03	81	5.00E-03	82	1.00E-02	83	1.00E-01	84	2.00E-01
85	1.00E+01	86	5.00E+02	87	5.00E+00	88	1.00E-03	89	2.00E-02	90	5.00E-04
91	5.00E-03	92	5.00E-01	93	8.00E-03	94	8.00E-04	95	4.00E-02	96	5.00E-01
97	5.00E-03	98	1.00E-02	99	1.00E-02						

OUTPUT UNIT = 6


```
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:32:41
  1    0 TIT  *  TIT     PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL                    *
  2    0 RDA  *  RDA                                                              *
  3    0 RDA  *  RDA     READ DATA LIBRARIES                                      *
  4    0 RDA  *  RDA                                                              *
  5    0 LIP  *  LIP     0 0 0                                                    *
  6    0 LIB  *  LIB     0 1 2 3 0 0 0 9 3 0 0 0                                  *
  7    0 PHO  *  PHO     101 102 103 10                                           *
  8    0 RDA  *  RDA                                                              *
  9    0 RDA  *  RDA     INPUT PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL             *
 10    0 RDA  *  RDA                                                              *
 11    0 BAS  *  BAS     PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL                   *
 12    0 INP  *  INP    -1  1 -1 -1  1  1                                         *
 13    0 MOV  *  MOV    -1  1  0  1                                               *
 14    0 RDA  *  RDA                                                              *
 15    0 RDA  *  RDA     DECAY PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL             *
 16    0 RDA  *  RDA                                                              *
 17    0 DEC  *  DEC     0.250    1  2  5  2                                      *
 18    0 DEC  *  DEC     0.500    2  3  5  0                                      *
 19    0 PRO  *  PRO              3  3 -1  1                                      *
 20    0 DEC  *  DEC     0.750    3  4  5  0                                      *
```

```
 21    0 DEC  *  DEC     1.000    4  5  5  0                                                  *
 22    0 DEC  *  DEC     5.000    5  6  5  0                                                  *
 23    0 DEC  *  DEC     10.00    6  7  5  0                                                  *
 24    0 DEC  *  DEC     20.00    7  8  5  0                                                  *
 25    0 DEC  *  DEC     30.00    8  9  5  0                                                  *
 26    0 DEC  *  DEC     40.00    9 10  5  0                                                  *
 27    0 DEC  *  DEC     51.80   10 11  5  0                                                  *
 28    0 RDA  *  RDA                                                                          *
 29    0 RDA  *  RDA     GENERATE OUTPUT                                                      *
 30    0 RDA  *  RDA                                                                          *
 31    0 CUT  *  CUT     5 1.0E-10  7 1.0E-10  9 1.0E-10  23 1.0E-10  27 1.0  -1              *
 32    0 OPTL *  OPTL    8 8 8 8 7  8 7 8 7 8  8 8 8 8 8  8 8 8 8 8  8 8 8 8                   *
 33    0 OPTA *  OPTA    8 8 8 8 7  8 7 8 7 8  8 8 8 8 8  8 8 8 8 8  8 8 8 8                   *
 34    0 OPTF *  OPTF    8 8 8 8 7  8 7 8 7 8  8 8 8 8 8  8 8 8 8 8  8 8 8 8                   *
 35    0 HED  *  HED      1  0.00 Y                                                           *
 36    0 HED  *  HED      2  0.25 Y                                                           *
 37    0 HED  *  HED      3  0.50 Y                                                           *
 38    0 HED  *  HED      4  0.75 Y                                                           *
 39    0 HED  *  HED      5  1.00 Y                                                           *
 40    0 HED  *  HED      6  5.00 Y                                                           *
 41    0 HED  *  HED      7  10.0 Y                                                           *
 42    0 HED  *  HED      8  20.0 Y                                                           *
 43    0 HED  *  HED      9  30.0 Y                                                           *
 44    0 HED  *  HED     10  40.0 Y                                                           *
 45    0 HED  *  HED     11  51.8 Y                                                           *
 46    0 OUT  *  OUT     11  1 -1  0                                                          *
 47    0 END  *  END                                                                          *

SUM OF YIELDS FOR EACH FISSILE ISOTOPE:                          0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000

ISOTOPES FOR WHICH YIELDS ARE EXPLICITLY ACCOUNTED FOR:      0      0      0      0      0      0      0      0
                                                                          OUTPUT UNIT =  6                          PAGE   36
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:32:41

    *  PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL
    POWER= 1.00000E+00 MW,  BURNUP= 1.00000E+00 MWD,  FLUX= 1.00E+00 N/CM**2-SEC

                                          REACTIVITY AND BURNUP DATA
                        BASIS=  PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

            0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
TIME, SEC   0.00E+00  7.89E+06  1.58E+07  2.37E+07  3.16E+07  1.58E+08  3.16E+08  6.31E+08  9.47E+08  1.26E+09  1.63E+09
NEUT. FLUX  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00
```

SP POW,MW	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BURNUP,MWD	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
K INFINITY	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
NEUT PRODN	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NEUT DESTN	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOT BURNUP	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
AVG N FLUX	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
AVG SP POW	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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SIZE OF MMAX(I): MMAX= 1  #= 950    MMAX= 2  #= 290    MMAX= 3  #=  47    MMAX= 4  #=   3    MMAX= 5  #=   0    MMAX= 6  #=   0
MMAX= 7  #=   0    MMAX= 8  #=   0    MMAX= 9  #=   0    MMAX=10  #=   0    MMAX=11  #=   0    MMAX=12  #=   0

THE NUMBER OF NON-ZERO TERMS IN A=1656
THE NUMBER OF NON-ZERO FISSION PRODUCT YIELDS=   2
ILITE= 688     IACT= 129     IFP= 879     ITOT=1696
THE NUMBER OF NON-ZERO NATURAL ABUNDANCES= 437
THE NUMBER OF NON-ZERO PHOTON YIELDS= 7903
THE MAXIMUM NUMBER OF TERMS IN AP=  438
                                                                    OUTPUT UNIT =  6                    PAGE   37
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:32:41

    *  PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL
                                                                                          ACTIVATION PRODUCTS
    POWER= 1.00000E+00 MW,  BURNUP= 1.00000E+00 MWD,  FLUX= 1.00E+00 N/CM**2-SEC

                    5 SUMMARY TABLE:  CONCENTRATIONS, GRAMS
                              PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL
            0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
 H  1       3.840E+00 3.840E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 H  2       2.169E-03 2.169E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 H  3       8.780E-05 8.658E-05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
HE  4       2.321E-02 2.321E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
LI  6       7.976E-04 7.976E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
LI  7       2.914E-02 2.914E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
BE  9       9.997E+00 9.997E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
BE 10       5.211E-05 5.211E-05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 B 10       1.146E-02 1.146E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 B 11       2.400E-01 2.400E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 C 12       5.633E+02 5.633E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 C 13       6.851E+00 6.851E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 C 14       6.812E-02 6.812E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
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N 14	8.047E+01	8.047E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
N 15	3.194E-01	3.194E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NE 21	3.175E-05	3.175E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NE 22	4.770E-05	4.770E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NA 23	1.468E+00	1.468E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MG 24	2.063E+01	2.063E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MG 25	2.721E+00	2.721E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MG 26	3.115E+00	3.115E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AL 27	8.054E+02	8.054E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SI 28	1.208E+02	1.208E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SI 29	6.335E+00	6.335E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SI 30	4.346E+00	4.346E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
P 31	1.932E-04	1.933E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TI 46	2.906E-01	2.906E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TI 47	2.681E-01	2.681E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TI 48	2.703E+00	2.703E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TI 49	2.102E-01	2.102E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TI 50	1.994E-01	1.994E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
V 50	8.917E-03	8.917E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
V 51	3.683E+00	3.688E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CR 50	5.750E+00	5.750E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CR 51	5.159E-03	5.254E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CR 52	1.157E+02	1.157E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CR 53	1.345E+01	1.345E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CR 54	3.477E+00	3.477E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MN 54	1.180E-03	9.637E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MN 55	2.851E+01	2.851E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MN 56	1.069E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FE 54	2.515E+01	2.515E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FE 55	4.630E-02	4.331E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FE 56	4.125E+02	4.125E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FE 57	1.026E+01	1.026E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FE 58	1.364E+00	1.365E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FE 59	1.548E-04	3.793E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 58	1.913E-03	7.822E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 59	7.189E-01	7.190E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 60	1.688E-02	1.633E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 58	9.436E+01	9.436E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
NI 59	2.369E-01	2.369E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 60	3.739E+01	3.739E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 61	1.683E+00	1.683E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 62	5.283E+00	5.283E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 63	3.705E-02	3.698E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 64	1.455E+00	1.455E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 63	5.381E+01	5.381E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 64	3.105E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 65	2.474E+01	2.474E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 64	3.760E-02	3.772E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 66	2.254E-02	2.254E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 87	1.487E-04	1.487E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 88	1.369E-02	1.369E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 89	2.743E-04	7.832E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 89	7.669E-04	9.629E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 90	5.966E-04	2.563E-11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 91	8.080E-04	2.740E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 90	3.659E+04	3.659E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 91	8.043E+03	8.043E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 92	1.243E+04	1.243E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 93	2.269E+00	2.269E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 94	1.292E+04	1.292E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 95	2.293E-01	8.527E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 96	2.121E+03	2.121E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 97	5.910E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 95	1.103E-01	7.600E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 95M	9.126E-05	3.568E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 97	4.202E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 92	5.204E-01	5.204E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 93	3.415E-05	3.415E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 94	3.341E-01	3.341E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 95	9.452E-01	1.124E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 96	6.236E-01	6.236E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 97	1.798E+00	1.804E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 98	9.049E-01	9.049E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 99	1.320E-05	1.334E-15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO100	3.668E-01	3.668E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC 99	9.984E-05	1.015E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

RU101	2.091E-04	2.091E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD106	3.511E-03	3.511E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD108	2.447E-03	2.447E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD110	3.474E-02	3.474E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD111	3.602E-02	3.602E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD112	6.906E-02	6.906E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD114	1.187E-01	1.187E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD116	2.216E-02	2.216E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN113	2.856E-02	3.473E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN113M	8.746E-06	5.049E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN114M	1.108E-04	3.086E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN115	1.466E-05	1.921E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN112	9.994E+00	9.994E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 39

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

ACTIVATION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
SN113	1.457E-02	8.407E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN114	6.844E+00	6.844E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN115	3.850E+00	3.850E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN116	1.525E+02	1.525E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN117	8.137E+01	8.138E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN117M	1.291E-02	1.407E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN118	2.569E+02	2.569E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN119	9.178E+01	9.180E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN119M	7.194E-02	5.556E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN120	3.484E+02	3.484E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN121	5.692E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN121M	5.111E-04	5.093E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN122	5.028E+01	5.028E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN123	4.725E-03	2.895E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN124	6.216E+01	6.216E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN125	1.881E-03	2.654E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB121	8.652E-02	8.709E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB122	2.868E-05	1.896E-15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB123	4.513E-03	6.343E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB124	1.207E-05	4.218E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

SB125	5.286E-02	5.144E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB126	1.034E-05	6.265E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE122	8.802E-04	9.082E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE124	1.152E-05	1.937E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE125	4.983E-03	8.159E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE125M	5.025E-04	6.294E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE126	8.116E-05	9.144E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LU175	2.253E-03	2.937E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LU176	2.164E-05	2.164E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF174	1.942E-02	1.942E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF175	1.149E-03	4.652E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF176	6.965E-01	6.965E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF177	1.261E+00	1.261E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF178	4.560E+00	4.560E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF179	2.777E+00	2.777E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF180	5.337E+00	5.337E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF181	9.604E-03	2.158E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF182	9.649E-05	9.649E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TA181	3.141E-02	3.887E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TA182	4.094E-04	2.361E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TA183	3.217E-05	1.311E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W180	4.579E-03	4.579E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W181	4.556E-05	2.702E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W182	* 8.981E-01	8.983E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W183	5.612E-01	5.612E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W184	1.144E+00	1.144E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W185	7.719E-04	3.323E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W186	1.001E+00	1.001E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W187	3.406E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W188	3.260E-05	1.310E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RE185	1.260E-03	1.700E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 40

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

ACTIVATION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
RE187	5.890E-02	5.924E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RE188	1.276E-05	1.349E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OS186	9.696E-05	1.021E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
OS188	1.594E-03	1.626E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PB204	1.011E-01	1.011E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PB205	3.703E-05	3.703E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PB206	1.742E+00	1.742E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PB207	1.636E+00	1.636E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PB208	3.861E+00	3.861E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SUMTOT	7.568E+04	7.568E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL	7.568E+04	7.568E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 41

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

ACTIVATION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
H	3.842E+00	3.842E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HE	2.321E-02	2.321E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LI	2.994E-02	2.994E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BE	9.997E+00	9.997E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
B	2.515E-01	2.515E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
C	5.702E+02	5.702E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
N	8.079E+01	8.079E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NE	7.945E-05	7.945E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NA	1.468E+00	1.468E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MG	2.647E+01	2.647E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AL	8.054E+02	8.054E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SI	1.315E+02	1.315E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
P	1.932E-04	1.933E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TI	3.671E+00	3.671E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
V	3.692E+00	3.697E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CR	1.384E+02	1.384E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MN	2.851E+01	2.851E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FE	4.493E+02	4.493E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO	7.377E-01	7.361E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI	1.404E+02	1.404E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU	7.855E+01	7.855E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN	6.015E-02	6.026E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR	1.411E-02	1.392E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Y	2.174E-03	1.237E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR	7.211E+04	7.211E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB	1.108E-01	7.604E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO	5.493E+00	5.678E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC	9.985E-05	1.015E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU	2.091E-04	2.091E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD	2.867E-01	2.867E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN	2.869E-02	3.478E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN	1.064E+03	1.064E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB	1.439E-01	1.449E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE	6.459E-03	9.808E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LU	2.275E-03	2.958E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF	1.466E+01	1.465E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TA	3.185E-02	3.911E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W	3.610E+00	3.609E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RE	6.018E-02	6.094E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
OS	1.691E-03	1.728E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PB	7.340E+00	7.340E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SUMTOT	7.568E+04	7.568E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL	7.568E+04	7.568E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

CUMULATIVE TABLE TOTALS

AP+FP	7.568E+04	7.568E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ACT+FP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AP+ACT+FP	7.568E+04	7.568E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 42

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

ACTIVATION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
H 3	8.476E-01	8.358E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
H 4	9.529E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HE 6	1.229E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LI 8	3.830E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BE 8	2.120E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BE 10	1.165E-06	1.165E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

B 12	3.401E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
C 14	3.037E-01	3.037E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
C 15	3.813E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
N 16	1.359E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
F 20	3.180E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NE 23	4.060E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NA 24	3.495E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NA 24M	7.042E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NA 25	1.926E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MG 27	8.335E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AL 28	1.982E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AL 29	5.235E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AL 30	5.074E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SI 31	4.718E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
P 32	2.735E-04	3.271E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CA 45	3.417E-04	2.317E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SC 46	5.768E-02	2.710E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SC 47	1.113E-01	6.966E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SC 48	1.071E-02	9.326E-18	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SC 49	8.753E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SC 50	1.768E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TI 51	2.096E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
V 52	9.946E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
V 53	2.233E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
V 54	2.284E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CR 51	4.769E+02	4.857E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CR 55	6.805E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MN 54	9.134E+00	7.460E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MN 56	2.321E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MN 57	6.414E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MN 58	2.085E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FE 55	1.158E+02	1.083E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FE 59	7.616E+00	1.866E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 58	6.088E+01	2.489E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 60	1.909E+01	1.848E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 60M	1.195E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 61	3.405E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 62	5.819E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 59	1.795E-02	1.795E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 63	2.286E+00	2.282E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 65	9.827E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 66	5.115E-05	4.254E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 64	1.198E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

CU 66	2.583E+02	4.261E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 67	2.519E-04	5.456E-15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 43

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

ACTIVATION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
ZN 65	4.599E-02	3.548E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 89	7.973E+00	2.277E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 90	1.401E-05	1.393E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 91	1.704E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 93	5.885E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 89M	1.560E-04	6.072E-13	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 90	3.247E+02	1.395E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 91	1.982E+01	6.722E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 92	1.918E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 93	5.884E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 94	1.220E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 96	7.832E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 89	1.563E-04	6.082E-13	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 93	5.704E-03	5.704E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 95	4.928E+03	1.833E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 97	1.130E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 92	3.110E-02	6.123E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 93M	1.094E-04	1.766E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 95	4.315E+03	2.973E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 95M	3.477E+01	1.359E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 96	2.870E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 97	1.130E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 97M	1.070E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 98	6.544E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 93M	9.031E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 93	3.754E-05	3.754E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 99	6.334E+00	6.399E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO101	1.573E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC 99	1.693E-06	1.721E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC100	2.327E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC101	1.573E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

AG108	2.080E-04	2.366E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG109M	4.717E-03	4.115E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG110	4.830E-04	5.819E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG110M	5.636E-06	4.375E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD107	8.810E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD109	4.716E-03	4.115E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD111M	1.558E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD115	1.942E+00	8.933E-13	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD115M	1.528E-01	3.696E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD117	6.305E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD117M	2.208E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD119	1.462E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD121	4.446E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN113M	1.463E+02	8.449E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN114	7.623E+00	6.835E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN114M	2.564E+00	7.142E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN116	1.034E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN116M	3.549E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN117	8.916E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN117M	5.964E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 5

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

ACTIVATION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
IN118	1.930E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN119	1.368E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN119M	1.462E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN121	3.644E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN113	1.463E+02	8.444E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN113M	8.898E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN117M	1.029E+03	1.121E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN119M	3.223E+02	2.489E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN121	5.503E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN121M	3.023E-02	3.013E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN123	3.885E+01	2.380E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN123M	2.174E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN125	2.039E+02	2.878E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

SN125M	1.611E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB122	1.137E+01	7.518E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB122M	9.897E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB124	2.112E-01	7.381E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB124M	1.009E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB125	5.460E+01	5.313E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB126	8.648E-01	5.240E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB126M	8.675E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE123M	6.232E-03	3.673E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE125M	9.054E+00	1.134E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE127	8.274E-04	1.646E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE127M	3.004E-05	1.681E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LU176M	6.218E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LU177	7.077E-02	1.499E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LU177M	6.099E-05	4.055E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF175	1.225E+01	4.961E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF178M	1.286E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF179M	2.510E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF180M	6.277E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF181	1.635E+02	3.674E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TA182	2.555E+00	1.474E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TA182M	4.722E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TA183	4.503E+00	1.835E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W181	2.713E-01	1.609E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W183M	6.523E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W185	7.258E+00	3.124E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W185M	9.699E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W187	2.389E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W188	3.264E-01	1.311E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RE186	1.020E+00	5.376E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RE188	1.253E+01	1.325E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RE188M	1.193E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RE189	3.619E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PB209	2.406E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SUMTOT	5.588E+04	5.607E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL	5.588E+04	5.607E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

ACTIVATION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
H	9.429E-01	8.358E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HE	1.229E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LI	3.830E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BE	2.120E+02	1.165E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
B	3.401E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
C	3.038E-01	3.037E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
N	1.359E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
F	3.180E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NE	4.060E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NA	4.218E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MG	8.335E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AL	1.982E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SI	4.718E+00	3.651E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
P	2.735E-04	3.271E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CA	3.417E-04	2.317E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SC	1.886E-01	2.710E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TI	2.096E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
V	9.948E+01	1.595E-15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CR	4.837E+02	4.857E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MN	2.330E+03	7.460E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FE	1.234E+02	1.102E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO	1.999E+02	4.337E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI	1.213E+01	2.300E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU	1.456E+03	5.499E-15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN	4.599E-02	3.548E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR	9.683E+00	2.277E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y	3.650E+02	6.722E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR	1.623E+04	1.833E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB	2.635E+04	2.987E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO	7.916E+00	3.754E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC	1.596E+00	1.721E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG	5.414E-03	4.119E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD	2.190E+00	4.108E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN	1.569E+02	8.588E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN	2.541E+03	3.687E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB	6.724E+01	5.321E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE	9.062E+00	1.134E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LU	6.926E-01	5.553E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF	2.705E+03	4.170E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

TA	7.063E+00	1.474E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W	2.474E+02	3.417E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RE	2.548E+01	1.325E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PB	2.406E-03	2.153E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SUMTOT	5.588E+04	5.607E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL	5.588E+04	5.607E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

CUMULATIVE TABLE TOTALS

AP+FP	5.588E+04	5.607E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ACT+FP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AP+ACT+FP	5.588E+04	5.607E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

ACTIVATION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
H 3	2.854E-05	2.814E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HE 6	1.142E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LI 8	1.428E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BE 8	1.194E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
B 12	2.696E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
C 14	8.907E-05	8.907E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
C 15	6.489E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
N 16	5.891E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
F 20	1.325E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NE 23	4.977E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NA 24	9.685E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NA 24M	1.970E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NA 25	2.210E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MG 27	7.871E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AL 28	3.555E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AL 29	7.295E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AL 30	1.721E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SI 31	1.668E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
P 32	2.772E-06	3.316E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CA 45	1.563E-07	1.060E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

SC 46	7.255E-04	3.409E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SC 47	1.787E-04	1.118E-12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SC 48	2.264E-04	1.973E-19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SC 49	1.042E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SC 50	5.058E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TI 51	1.534E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
V 52	1.482E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
V 53	2.696E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
V 54	9.885E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CR 51	1.023E-01	1.042E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CR 55	4.441E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MN 54	4.547E-02	3.713E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MN 56	3.468E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MN 57	4.452E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MN 58	4.936E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FE 55	3.913E-03	3.660E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FE 59	5.896E-02	1.445E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 58	3.641E-01	1.489E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 60	2.944E-01	2.849E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 60M	4.466E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 61	1.102E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 62	1.104E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 59	7.129E-07	7.129E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 63	2.304E-04	2.299E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 65	6.879E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 64	2.222E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 66	1.768E+00	2.917E-19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 67	4.045E-07	8.761E-18	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 65	1.610E-04	1.242E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 89	2.756E-02	7.870E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 90	1.627E-08	1.617E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 47

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

ACTIVATION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
SR 91	1.366E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 93	8.916E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Y 89M	8.475E-07	3.300E-15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 90	1.800E+00	7.732E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 91	7.120E-02	2.414E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 92	1.931E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 93	4.402E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 94	2.032E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 96	1.796E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 89	1.169E-06	4.549E-15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 93	6.626E-07	6.626E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 95	2.496E+01	9.282E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 97	5.890E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 92	2.783E-04	5.481E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 93M	1.938E-08	3.129E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 95	2.070E+01	1.426E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 95M	4.831E-02	1.889E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 96	4.772E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 97	7.524E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 97M	4.708E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 98	8.076E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 93M	1.263E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 93	3.516E-09	3.516E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 99	2.034E-02	2.055E-12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO101	1.797E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC100	2.049E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC101	7.548E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG108	7.743E-07	8.809E-12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG109M	2.432E-06	2.121E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG110	3.470E-06	4.181E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG110M	9.412E-08	7.306E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD107	6.303E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD109	5.479E-07	4.781E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD111M	3.656E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD115	6.166E-03	2.835E-15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD115M	5.699E-04	1.379E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD117	4.541E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD117M	1.795E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD119	1.603E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD121	7.366E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN113M	3.409E-01	1.968E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN114	3.631E-02	3.255E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN114M	3.639E-03	1.013E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN116	8.468E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN116M	5.842E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

IN117	4.017E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN117M	2.252E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN118	2.331E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN119	1.094E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN119M	1.235E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN121	4.390E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 48

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

ACTIVATION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
SN113	2.437E-02	1.406E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN113M	4.182E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN117M	1.909E+00	2.080E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN119M	1.666E-01	1.287E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN121	6.654E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN121M	6.057E-05	6.036E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN123	1.213E-01	7.434E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN123M	7.921E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN125	1.351E+00	1.907E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN125M	1.084E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB122	6.782E-02	4.483E-12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB122M	9.504E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB124	2.805E-03	9.801E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB124M	2.594E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB125	1.707E-01	1.661E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB126	1.598E-02	9.681E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB126M	1.105E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE123M	9.077E-06	5.349E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE125M	7.611E-03	9.532E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE127	1.117E-06	2.223E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE127M	1.616E-08	9.040E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LU176M	4.828E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LU177	7.635E-05	1.617E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LU177M	4.910E-07	3.264E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF175	3.013E-02	1.220E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF178M	8.741E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF179M	5.624E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

HF180M	4.249E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF181	7.307E-01	1.642E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TA182	2.275E-02	1.312E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TA182M	1.408E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TA183	2.856E-02	1.164E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W181	7.769E-05	4.608E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W183M	1.005E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W185	5.464E-03	2.352E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W185M	1.133E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W187	1.084E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W188	1.952E-04	7.842E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RE186	2.182E-03	1.149E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RE188	6.218E-02	6.573E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RE188M	1.217E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RE189	2.167E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PB209	2.766E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SUMTOT	3.227E+02	2.490E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL	3.227E+02	2.490E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 49

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

ACTIVATION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
H	2.854E-05	2.814E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HE	1.142E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LI	1.428E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BE	1.194E-01	1.398E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
B	2.696E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
C	8.972E-05	8.907E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
N	5.891E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
F	1.325E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NE	4.977E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NA	9.904E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MG	7.871E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AL	3.556E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SI	1.668E-02	4.545E-13	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
P	2.772E-06	3.316E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

CA	1.563E-07	1.060E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SC	1.240E-03	3.409E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TI	1.534E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
V	1.482E+00	1.758E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CR	1.467E-01	1.042E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MN	3.473E+01	3.713E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FE	6.288E-02	1.811E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO	7.054E-01	4.337E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI	6.902E-02	2.307E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU	3.991E+00	9.053E-18	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN	1.610E-04	1.242E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR	4.131E-02	7.870E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y	2.085E+00	2.414E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR	8.386E+01	9.282E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB	1.431E+02	1.428E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO	3.844E-02	3.518E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC	7.753E-03	8.631E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG	6.770E-06	2.195E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD	7.254E-03	1.383E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN	3.833E-01	2.011E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN	5.364E+00	2.398E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB	2.585E-01	1.672E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE	7.621E-03	9.537E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LU	4.905E-03	3.426E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF	6.515E+00	1.764E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TA	5.132E-02	1.312E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W	1.090E+00	2.477E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RE	7.653E-02	6.573E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PB	2.766E-06	6.257E-14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SUMTOT	3.227E+02	2.490E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL	3.227E+02	2.490E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

CUMULATIVE TABLE TOTALS

AP+FP	3.227E+02	2.490E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ACT+FP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AP+ACT+FP	3.227E+02	2.490E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
HE 4	9.304E-04	1.745E-03	0.000E+00	4.377E-04	8.805E-04	8.591E-03	1.965E-02	4.518E-02	7.362E-02	1.037E-01	1.402E-01
PB208	0.000E+00	1.855E-09	0.000E+00	3.398E-11	2.687E-10	1.151E-07	5.888E-07	1.955E-06	3.329E-06	4.590E-06	5.931E-06
TH228	1.622E-08	2.971E-08	0.000E+00	1.300E-09	4.941E-09	1.862E-07	3.622E-07	4.276E-07	3.989E-07	3.632E-07	3.243E-07
TH230	1.474E-04	1.936E-04	0.000E+00	1.851E-09	7.400E-09	5.931E-07	2.609E-06	1.071E-05	2.390E-05	4.178E-05	6.843E-05
TH232	1.685E-05	2.348E-05	0.000E+00	2.474E-11	9.895E-11	8.014E-09	3.571E-08	1.504E-07	3.441E-07	6.167E-07	1.040E-06
U232	5.922E-06	7.197E-06	0.000E+00	1.121E-06	2.172E-06	1.234E-05	1.611E-05	1.625E-05	1.490E-05	1.354E-05	1.209E-05
U233	1.337E-04	1.363E-04	0.000E+00	4.011E-12	2.330E-11	2.231E-08	1.992E-07	1.546E-06	4.825E-06	1.050E-05	2.064E-05
U234	6.625E+01	6.626E+01	0.000E+00	5.313E-03	1.062E-02	9.404E-02	1.947E-01	3.844E-01	5.598E-01	7.218E-01	8.972E-01
U235	7.365E+03	7.365E+03	0.000E+00	1.344E-02	2.687E-02	2.418E-01	5.105E-01	1.048E+00	1.585E+00	2.122E+00	2.755E+00
U236	9.119E+02	9.119E+02	0.000E+00	6.800E-03	1.360E-02	1.224E-01	2.583E-01	5.299E-01	8.012E-01	1.072E+00	1.392E+00
U237	1.653E+00	1.420E-04	0.000E+00	1.997E-06	1.973E-06	1.627E-06	1.279E-06	7.905E-07	4.884E-07	3.018E-07	1.710E-07
U238	9.864E+05	9.864E+05	0.000E+00	1.880E-06	3.761E-06	3.385E-05	7.146E-05	1.467E-04	2.219E-04	2.971E-04	3.859E-04
U239	2.660E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NP237	3.385E+01	3.550E+01	0.000E+00	1.711E-04	6.498E-04	4.692E-02	1.926E-01	6.984E-01	1.392E+00	2.195E+00	3.220E+00
NP238	6.969E-02	1.086E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NP239	3.831E+01	1.123E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NP240	4.912E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PU236	2.159E-05	2.057E-05	1.935E-05	1.821E-05	1.714E-05	6.481E-06	1.922E-06	1.690E-07	1.486E-08	1.306E-09	7.415E-11
PU238	2.643E+00	2.729E+00	2.739E+00	2.733E+00	2.728E+00	2.643E+00	2.541E+00	2.348E+00	2.170E+00	2.005E+00	1.826E+00
PU239	1.859E+03	1.898E+03	1.898E+03	1.898E+03	1.898E+03	1.897E+03	1.897E+03	1.896E+03	1.896E+03	1.895E+03	1.895E+03
PU240	2.609E+02	2.609E+02	2.609E+02	2.609E+02	2.609E+02	2.608E+02	2.606E+02	2.603E+02	2.601E+02	2.598E+02	2.595E+02
PU241	6.686E+01	6.606E+01	6.527E+01	6.449E+01	6.372E+01	5.256E+01	4.131E+01	2.553E+01	1.578E+01	9.748E+00	5.524E+00
PU242	4.269E+00	4.269E+00	4.269E+00	4.269E+00	4.269E+00	4.269E+00	4.269E+00	4.269E+00	4.269E+00	4.269E+00	4.269E+00
PU243	6.670E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AM241	6.587E-01	1.458E+00	0.000E+00	7.806E-01	1.552E+00	1.266E+01	2.376E+01	3.903E+01	4.808E+01	5.329E+01	5.647E+01
AM242M	5.798E-03	5.791E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AM242	1.436E-03	6.928E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AM243	1.299E-01	1.306E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CM242	6.846E-02	4.727E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CM243	3.067E-04	3.048E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CM244	6.062E-03	6.011E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SUMTOT	9.970E+05	9.970E+05	2.231E+03	2.231E+03	2.231E+03	2.231E+03	2.231E+03	2.231E+03	2.231E+03	2.231E+03	2.231E+03
TOTAL	9.970E+05	9.970E+05	2.231E+03	2.231E+03	2.231E+03	2.231E+03	2.231E+03	2.231E+03	2.231E+03	2.231E+03	2.231E+03

OUTPUT UNIT = 6

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

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*  PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
ACTINIDES+DAUGHTERS

POWER= 1.00000E+00 MW,  BURNUP= 1.00000E+00 MWD,  FLUX= 1.00E+00 N/CM**2-SEC

                    5 SUMMARY TABLE:  CONCENTRATIONS, GRAMS
                          PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
HE        9.304E-04 1.745E-03 0.000E+00 4.377E-04 8.805E-04 8.591E-03 1.965E-02 4.518E-02 7.362E-02 1.037E-01 1.402E-01
PB        9.705E-12 1.874E-09 0.000E+00 3.474E-11 2.716E-10 1.153E-07 5.890E-07 1.955E-06 3.329E-06 4.590E-06 5.931E-06
TH        1.787E-04 2.314E-04 0.000E+00 3.175E-09 1.244E-08 7.873E-07 3.007E-06 1.129E-05 2.464E-05 4.276E-05 6.980E-05
 U        9.947E+05 9.947E+05 0.000E+00 2.555E-02 5.109E-02 4.583E-01 9.635E-01 1.962E+00 2.946E+00 3.916E+00 5.044E+00
NP        7.223E+01 3.550E+01 0.000E+00 1.711E-04 6.498E-04 4.692E-02 1.926E-01 6.984E-01 1.392E+00 2.195E+00 3.220E+00
PU        2.194E+03 2.232E+03 2.231E+03 2.230E+03 2.229E+03 2.218E+03 2.206E+03 2.189E+03 2.178E+03 2.171E+03 2.166E+03
AM        7.958E-01 1.594E+00 0.000E+00 7.806E-01 1.552E+00 1.266E+01 2.376E+01 3.903E+01 4.808E+01 5.329E+01 5.647E+01
CM        7.486E-02 5.364E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SUMTOT    9.970E+05 9.970E+05 2.231E+03 2.231E+03 2.231E+03 2.231E+03 2.231E+03 2.231E+03 2.231E+03 2.231E+03 2.231E+03

TOTAL     9.970E+05 9.970E+05 2.231E+03 2.231E+03 2.231E+03 2.231E+03 2.231E+03 2.231E+03 2.231E+03 2.231E+03 2.231E+03

                                CUMULATIVE TABLE TOTALS

AP+FP     7.568E+04 7.568E+04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
ACT+FP    9.970E+05 9.970E+05 2.231E+03 2.231E+03 2.231E+03 2.231E+03 2.231E+03 2.231E+03 2.231E+03 2.231E+03 2.231E+03
AP+ACT+FP 1.073E+06 1.073E+06 2.231E+03 2.231E+03 2.231E+03 2.231E+03 2.231E+03 2.231E+03 2.231E+03 2.231E+03 2.231E+03
                                                                                OUTPUT UNIT =  6                          PAGE   52
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:32:41

*  PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
ACTINIDES+DAUGHTERS

POWER= 1.00000E+00 MW,  BURNUP= 1.00000E+00 MWD,  FLUX= 1.00E+00 N/CM**2-SEC

                    7 SUMMARY TABLE:  RADIOACTIVITY,  CURIES
                          PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
TL208     4.787E-06 8.777E-06 0.000E+00 3.829E-07 1.458E-06 5.487E-05 1.067E-04 1.260E-04 1.175E-04 1.070E-04 9.555E-05
PB212     1.333E-05 2.443E-05 0.000E+00 1.066E-06 4.057E-06 1.527E-04 2.971E-04 3.507E-04 3.271E-04 2.979E-04 2.659E-04
BI212     1.333E-05 2.443E-05 0.000E+00 1.066E-06 4.057E-06 1.527E-04 2.971E-04 3.507E-04 3.271E-04 2.979E-04 2.659E-04
PO212     8.536E-06 1.565E-05 0.000E+00 6.828E-07 2.599E-06 9.784E-05 1.904E-04 2.247E-04 2.096E-04 1.908E-04 1.704E-04
PO216     1.333E-05 2.443E-05 0.000E+00 1.066E-06 4.057E-06 1.527E-04 2.971E-04 3.507E-04 3.271E-04 2.979E-04 2.659E-04
RN220     1.332E-05 2.443E-05 0.000E+00 1.066E-06 4.057E-06 1.527E-04 2.971E-04 3.507E-04 3.271E-04 2.979E-04 2.659E-04
RA224     1.333E-05 2.443E-05 0.000E+00 1.066E-06 4.057E-06 1.527E-04 2.971E-04 3.507E-04 3.271E-04 2.979E-04 2.659E-04
TH228     1.330E-05 2.436E-05 0.000E+00 1.066E-06 4.052E-06 1.527E-04 2.970E-04 3.506E-04 3.271E-04 2.978E-04 2.659E-04
TH230     2.977E-06 3.909E-06 0.000E+00 3.738E-11 1.494E-10 1.198E-08 5.269E-08 2.163E-07 4.826E-07 8.437E-07 1.382E-06
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TH231	5.957E-02	1.593E-02	0.000E+00	2.905E-08	5.811E-08	5.229E-07	1.104E-06	2.266E-06	3.427E-06	4.588E-06	5.957E-06
TH234	3.317E-01	3.318E-01	0.000E+00	4.091E-13	1.025E-12	1.138E-11	2.403E-11	4.933E-11	7.463E-11	9.992E-11	1.298E-10
PA232	1.017E-02	1.065E-23	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PA233	2.061E-02	2.461E-02	0.000E+00	5.911E-08	3.077E-07	3.309E-05	1.358E-04	4.925E-04	9.815E-04	1.548E-03	2.271E-03
PA234M	3.319E-01	3.318E-01	0.000E+00	4.091E-13	1.025E-12	1.138E-11	2.403E-11	4.933E-11	7.463E-11	9.992E-11	1.298E-10
PA234	5.823E-04	4.313E-04	0.000E+00	5.318E-16	1.333E-15	1.480E-14	3.124E-14	6.413E-14	9.702E-14	1.299E-13	1.687E-13
U232	1.268E-04	1.541E-04	0.000E+00	2.400E-05	4.652E-05	2.642E-04	3.450E-04	3.479E-04	3.190E-04	2.900E-04	2.589E-04
U233	1.295E-06	1.320E-06	0.000E+00	3.885E-14	2.256E-13	2.160E-10	1.929E-09	1.497E-08	4.673E-08	1.017E-07	1.999E-07
U234	4.141E-01	4.142E-01	0.000E+00	3.321E-05	6.636E-05	5.879E-04	1.217E-03	2.403E-03	3.499E-03	4.512E-03	5.608E-03
U235	1.593E-02	1.593E-02	0.000E+00	2.905E-08	5.811E-08	5.229E-07	1.104E-06	2.266E-06	3.427E-06	4.588E-06	5.957E-06
U236	5.902E-02	5.902E-02	0.000E+00	4.401E-07	8.802E-07	7.921E-06	1.672E-05	3.429E-05	5.185E-05	6.940E-05	9.007E-05
U237	1.350E+05	1.160E+01	0.000E+00	1.630E-01	1.611E-01	1.329E-01	1.045E-01	6.455E-02	3.988E-02	2.465E-02	1.397E-02
U238	3.318E-01	3.318E-01	0.000E+00	6.325E-13	1.265E-12	1.138E-11	2.403E-11	4.933E-11	7.463E-11	9.992E-11	1.298E-10
U239	8.896E+06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U240	1.203E+01	2.280E-14	0.000E+00	2.280E-14	2.280E-14	2.280E-14	2.280E-14	2.280E-14	2.280E-14	2.280E-14	2.280E-14
NP235	1.867E-04	1.591E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NP236M	3.265E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NP237	2.387E-02	2.504E-02	0.000E+00	1.206E-07	4.582E-07	3.309E-05	1.358E-04	4.925E-04	9.815E-04	1.548E-03	2.271E-03
NP238	1.807E+04	2.815E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NP239	8.890E+06	2.606E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NP240M	1.501E+03	2.280E-14	0.000E+00	2.280E-14	2.280E-14	2.280E-14	2.280E-14	2.280E-14	2.280E-14	2.280E-14	2.280E-14
NP240	5.923E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PU236	1.148E-02	1.093E-02	1.029E-02	9.681E-03	9.110E-03	3.445E-03	1.021E-03	8.981E-05	7.897E-06	6.944E-07	3.941E-08
PU237	1.664E-02	4.154E-03	1.037E-03	2.587E-04	6.457E-05	1.463E-14	1.286E-26	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PU238	4.526E+01	4.674E+01	4.691E+01	4.681E+01	4.672E+01	4.527E+01	4.352E+01	4.021E+01	3.716E+01	3.433E+01	3.128E+01
PU239	1.156E+02	1.180E+02	1.180E+02	1.180E+02	1.180E+02	1.180E+02	1.180E+02	1.179E+02	1.179E+02	1.179E+02	1.178E+02
PU240	5.947E+01	5.947E+01	5.947E+01	5.947E+01	5.947E+01	5.944E+01	5.941E+01	5.935E+01	5.928E+01	5.922E+01	5.915E+01
PU241	6.891E+03	6.808E+03	6.727E+03	6.646E+03	6.567E+03	5.417E+03	4.258E+03	2.631E+03	1.626E+03	1.005E+03	5.693E+02
PU242	1.631E-02	1.631E-02	1.631E-02	1.631E-02	1.631E-02	1.631E-02	1.631E-02	1.631E-02	1.631E-02	1.631E-02	1.631E-02
PU243	1.737E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AM240	2.617E-03	2.710E-16	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AM241	2.262E+00	5.006E+00	0.000E+00	2.680E+00	5.327E+00	4.348E+01	8.158E+01	1.340E+02	1.651E+02	1.830E+02	1.939E+02
AM242M	5.637E-02	5.631E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AM242	1.161E+03	5.603E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AM243	2.591E-02	2.604E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AM244M	9.305E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AM244	4.888E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CM242	2.264E+02	1.563E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CM243	1.584E-02	1.574E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CM244	4.906E-01	4.865E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CM245	9.323E-06	9.323E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SUMTOT	1.796E+07	7.208E+03	6.951E+03	6.874E+03	6.797E+03	5.683E+03	4.561E+03	2.983E+03	2.005E+03	1.399E+03	9.715E+02

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TOTAL      1.796E+07 7.208E+03 6.951E+03 6.874E+03 6.797E+03 5.683E+03 4.561E+03 2.983E+03 2.005E+03 1.399E+03 9.715E+02
                                                                                OUTPUT UNIT =  6                    PAGE   53
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:32:41

    *  PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL
                                                                                                ACTINIDES+DAUGHTERS
    POWER= 1.00000E+00 MW,  BURNUP= 1.00000E+00 MWD,  FLUX= 1.00E+00 N/CM**2-SEC

                    7 SUMMARY TABLE:  RADIOACTIVITY,  CURIES
                              PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL
           0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
TL         4.792E-06 8.785E-06 0.000E+00 3.829E-07 1.458E-06 5.487E-05 1.067E-04 1.260E-04 1.175E-04 1.070E-04 9.555E-05
PB         1.333E-05 2.444E-05 0.000E+00 1.066E-06 4.057E-06 1.527E-04 2.971E-04 3.507E-04 3.271E-04 2.979E-04 2.660E-04
BI         1.334E-05 2.444E-05 0.000E+00 1.066E-06 4.057E-06 1.527E-04 2.971E-04 3.507E-04 3.271E-04 2.979E-04 2.660E-04
PO         2.188E-05 4.009E-05 0.000E+00 1.748E-06 6.656E-06 2.506E-04 4.875E-04 5.754E-04 5.367E-04 4.887E-04 4.364E-04
RN         1.333E-05 2.444E-05 0.000E+00 1.066E-06 4.057E-06 1.527E-04 2.971E-04 3.507E-04 3.271E-04 2.979E-04 2.660E-04
RA         1.334E-05 2.444E-05 0.000E+00 1.066E-06 4.057E-06 1.527E-04 2.971E-04 3.507E-04 3.271E-04 2.979E-04 2.660E-04
TH         3.913E-01 3.477E-01 0.000E+00 1.095E-06 4.110E-06 1.532E-04 2.981E-04 3.531E-04 3.310E-04 3.033E-04 2.733E-04
PA         3.633E-01 3.568E-01 0.000E+00 5.911E-08 3.077E-07 3.309E-05 1.358E-04 4.925E-04 9.815E-04 1.548E-03 2.271E-03
 U         9.031E+06 1.242E+01 0.000E+00 1.631E-01 1.612E-01 1.337E-01 1.060E-01 6.733E-02 4.376E-02 2.952E-02 1.993E-02
NP         8.916E+06 5.154E-02 0.000E+00 1.206E-07 4.582E-07 3.309E-05 1.358E-04 4.925E-04 9.815E-04 1.548E-03 2.271E-03
PU         8.848E+03 7.033E+03 6.951E+03 6.871E+03 6.791E+03 5.639E+03 4.479E+03 2.849E+03 1.840E+03 1.216E+03 7.776E+02
AM         1.262E+03 5.145E+00 0.000E+00 2.680E+00 5.327E+00 4.348E+01 8.158E+01 1.340E+02 1.651E+02 1.830E+02 1.939E+02
CM         2.270E+02 1.568E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SUMTOT     1.796E+07 7.208E+03 6.951E+03 6.874E+03 6.797E+03 5.683E+03 4.561E+03 2.983E+03 2.005E+03 1.399E+03 9.715E+02

TOTAL      1.796E+07 7.208E+03 6.951E+03 6.874E+03 6.797E+03 5.683E+03 4.561E+03 2.983E+03 2.005E+03 1.399E+03 9.715E+02

                                   CUMULATIVE TABLE TOTALS

AP+FP      5.588E+04 5.607E+03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
ACT+FP     1.796E+07 7.208E+03 6.951E+03 6.874E+03 6.797E+03 5.683E+03 4.561E+03 2.983E+03 2.005E+03 1.399E+03 9.715E+02
AP+ACT+FP  1.801E+07 1.281E+04 6.951E+03 6.874E+03 6.797E+03 5.683E+03 4.561E+03 2.983E+03 2.005E+03 1.399E+03 9.715E+02
                                                                                OUTPUT UNIT =  6                    PAGE   54
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:32:41

    *  PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL
                                                                                                ACTINIDES+DAUGHTERS
    POWER= 1.00000E+00 MW,  BURNUP= 1.00000E+00 MWD,  FLUX= 1.00E+00 N/CM**2-SEC

                    9 SUMMARY TABLE:  THERMAL POWER,  WATTS
                              PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL
           0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
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TL208	1.127E-07	2.065E-07	0.000E+00	9.010E-09	3.430E-08	1.291E-06	2.512E-06	2.965E-06	2.766E-06	2.519E-06	2.249E-06
PB212	2.538E-08	4.651E-08	0.000E+00	2.029E-09	7.724E-09	2.908E-07	5.657E-07	6.677E-07	6.228E-07	5.671E-07	5.063E-07
BI212	2.267E-07	4.154E-07	0.000E+00	1.812E-08	6.899E-08	2.597E-06	5.053E-06	5.964E-06	5.563E-06	5.066E-06	4.523E-06
PO212	4.523E-07	8.294E-07	0.000E+00	3.618E-08	1.377E-07	5.185E-06	1.009E-05	1.191E-05	1.111E-05	1.011E-05	9.029E-06
PO216	5.457E-07	1.000E-06	0.000E+00	4.362E-08	1.661E-07	6.252E-06	1.216E-05	1.436E-05	1.339E-05	1.219E-05	1.089E-05
RN220	5.059E-07	9.274E-07	0.000E+00	4.046E-08	1.540E-07	5.798E-06	1.128E-05	1.331E-05	1.242E-05	1.131E-05	1.010E-05
RA224	4.576E-07	8.384E-07	0.000E+00	3.657E-08	1.392E-07	5.241E-06	1.020E-05	1.204E-05	1.123E-05	1.022E-05	9.127E-06
TH228	4.350E-07	7.968E-07	0.000E+00	3.485E-08	1.325E-07	4.994E-06	9.712E-06	1.147E-05	1.070E-05	9.740E-06	8.696E-06
TH230	8.423E-08	1.106E-07	0.000E+00	1.058E-12	4.229E-12	3.389E-10	1.491E-09	6.121E-09	1.366E-08	2.387E-08	3.911E-08
TH231	3.342E-05	8.936E-06	0.000E+00	1.630E-11	3.260E-11	2.934E-10	6.194E-10	1.271E-09	1.923E-09	2.574E-09	3.343E-09
TH234	1.345E-04	1.345E-04	0.000E+00	1.659E-16	4.157E-16	4.616E-15	9.744E-15	2.000E-14	3.026E-14	4.051E-14	5.262E-14
PA231	1.720E-08	1.990E-08	0.000E+00	2.315E-15	9.337E-15	7.502E-13	3.344E-12	1.408E-11	3.223E-11	5.777E-11	9.742E-11
PA232	6.651E-05	6.963E-26	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PA233	4.678E-05	5.586E-05	0.000E+00	1.342E-10	6.984E-10	7.511E-08	3.083E-07	1.118E-06	2.228E-06	3.514E-06	5.155E-06
PA234M	1.640E-03	1.639E-03	0.000E+00	2.022E-15	5.067E-15	5.626E-14	1.188E-13	2.438E-13	3.688E-13	4.938E-13	6.413E-13
PA234	8.364E-06	6.194E-06	0.000E+00	7.638E-18	1.915E-17	2.126E-16	4.487E-16	9.211E-16	1.393E-15	1.866E-15	2.423E-15
U232	4.071E-06	4.947E-06	0.000E+00	7.703E-07	1.493E-06	8.481E-06	1.108E-05	1.117E-05	1.024E-05	9.309E-06	8.310E-06
U233	3.764E-08	3.838E-08	0.000E+00	1.129E-15	6.559E-15	6.279E-12	5.607E-11	4.353E-10	1.358E-09	2.956E-09	5.810E-09
U234	1.193E-02	1.193E-02	0.000E+00	9.566E-07	1.911E-06	1.693E-05	3.505E-05	6.922E-05	1.008E-04	1.299E-04	1.615E-04
U235	4.171E-04	4.171E-04	0.000E+00	7.609E-10	1.522E-09	1.369E-08	2.891E-08	5.933E-08	8.975E-08	1.202E-07	1.560E-07
U236	1.599E-03	1.599E-03	0.000E+00	1.192E-08	2.385E-08	2.146E-07	4.528E-07	9.290E-07	1.405E-06	1.880E-06	2.440E-06
U237	2.554E+02	2.194E-02	0.000E+00	3.085E-04	3.048E-04	2.514E-04	1.976E-04	1.221E-04	7.547E-05	4.663E-05	2.642E-05
U238	8.415E-03	8.415E-03	0.000E+00	1.604E-14	3.208E-14	2.888E-13	6.096E-13	1.251E-12	1.893E-12	2.535E-12	3.292E-12
U239	2.395E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U240	9.866E-03	1.870E-17	0.000E+00	1.870E-17	1.870E-17	1.870E-17	1.870E-17	1.870E-17	1.870E-17	1.870E-17	1.870E-17
NP235	1.084E-08	9.242E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NP236M	2.580E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NP237	7.296E-04	7.652E-04	0.000E+00	3.687E-09	1.400E-08	1.011E-06	4.152E-06	1.505E-05	3.000E-05	4.731E-05	6.941E-05
NP238	8.654E+01	1.348E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NP239	2.149E+04	6.299E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NP240M	8.697E+00	1.321E-16	0.000E+00	1.321E-16	1.321E-16	1.321E-16	1.321E-16	1.321E-16	1.321E-16	1.321E-16	1.321E-16
NP240	6.278E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PU236	3.994E-04	3.805E-04	3.580E-04	3.369E-04	3.170E-04	1.199E-04	3.555E-05	3.126E-06	2.748E-07	2.416E-08	1.372E-09
PU237	6.137E-06	1.532E-06	3.822E-07	9.540E-08	2.381E-08	5.394E-18	4.741E-30	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PU238	1.500E+00	1.549E+00	1.555E+00	1.551E+00	1.548E+00	1.500E+00	1.442E+00	1.333E+00	1.231E+00	1.138E+00	1.037E+00
PU239	3.563E+00	3.637E+00	3.637E+00	3.637E+00	3.636E+00	3.636E+00	3.636E+00	3.634E+00	3.633E+00	3.632E+00	3.631E+00
PU240	1.852E+00	1.852E+00	1.852E+00	1.852E+00	1.852E+00	1.851E+00	1.850E+00	1.848E+00	1.846E+00	1.844E+00	1.842E+00
PU241	2.136E-01	2.111E-01	2.085E-01	2.061E-01	2.036E-01	1.679E-01	1.320E-01	8.157E-02	5.040E-02	3.115E-02	1.765E-02
PU242	4.816E-04	4.816E-04	4.816E-04	4.816E-04	4.816E-04	4.816E-04	4.816E-04	4.816E-04	4.816E-04	4.815E-04	4.815E-04
PU243	2.004E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AM240	1.713E-05	1.773E-18	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AM241	7.513E-02	1.663E-01	0.000E+00	8.903E-02	1.770E-01	1.444E+00	2.710E+00	4.452E+00	5.484E+00	6.078E+00	6.441E+00
AM242M	2.227E-05	2.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

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AM242      1.318E+00 6.360E-05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
AM243      8.328E-04 8.370E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
AM244M     2.815E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
AM244      2.561E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CM242      8.344E+00 5.761E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CM243      5.811E-04 5.775E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CM244      1.716E-02 1.702E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CM245      3.094E-07 3.094E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
                                                                                OUTPUT UNIT =  6                        PAGE   55
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:32:41

    *  PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL
                                                                                                ACTINIDES+DAUGHTERS
    POWER= 1.00000E+00 MW,  BURNUP= 1.00000E+00 MWD,  FLUX= 1.00E+00 N/CM**2-SEC

                    9 SUMMARY TABLE:  THERMAL POWER,  WATTS
                              PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL
           0.00 Y     0.25 Y     0.50 Y     0.75 Y     1.00 Y     5.00 Y     10.0 Y     20.0 Y     30.0 Y     40.0 Y     51.8 Y
CM246      8.542E-09 8.542E-09 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SUMTOT     4.587E+04 1.324E+01 7.252E+00 7.336E+00 7.418E+00 8.601E+00 9.770E+00 1.135E+01 1.225E+01 1.272E+01 1.297E+01

TOTAL      4.587E+04 1.324E+01 7.252E+00 7.336E+00 7.418E+00 8.601E+00 9.770E+00 1.135E+01 1.225E+01 1.272E+01 1.297E+01
                                                                                OUTPUT UNIT =  6                        PAGE   56
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:32:41

    *  PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL
                                                                                                ACTINIDES+DAUGHTERS
    POWER= 1.00000E+00 MW,  BURNUP= 1.00000E+00 MWD,  FLUX= 1.00E+00 N/CM**2-SEC

                    9 SUMMARY TABLE:  THERMAL POWER,  WATTS
                              PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL
           0.00 Y     0.25 Y     0.50 Y     0.75 Y     1.00 Y     5.00 Y     10.0 Y     20.0 Y     30.0 Y     40.0 Y     51.8 Y
TL         1.127E-07 2.066E-07 0.000E+00 9.010E-09 3.430E-08 1.291E-06 2.512E-06 2.965E-06 2.766E-06 2.519E-06 2.249E-06
PB         2.539E-08 4.654E-08 0.000E+00 2.029E-09 7.724E-09 2.908E-07 5.657E-07 6.677E-07 6.228E-07 5.672E-07 5.064E-07
BI         2.269E-07 4.158E-07 0.000E+00 1.812E-08 6.899E-08 2.597E-06 5.053E-06 5.964E-06 5.563E-06 5.066E-06 4.523E-06
PO         9.984E-07 1.830E-06 0.000E+00 7.981E-08 3.038E-07 1.144E-05 2.225E-05 2.626E-05 2.450E-05 2.231E-05 1.992E-05
RN         5.061E-07 9.278E-07 0.000E+00 4.046E-08 1.540E-07 5.798E-06 1.128E-05 1.331E-05 1.242E-05 1.131E-05 1.010E-05
RA         4.578E-07 8.387E-07 0.000E+00 3.657E-08 1.392E-07 5.241E-06 1.020E-05 1.204E-05 1.123E-05 1.022E-05 9.128E-06
TH         1.684E-04 1.444E-04 0.000E+00 3.487E-08 1.325E-07 4.995E-06 9.714E-06 1.147E-05 1.071E-05 9.766E-06 8.739E-06
PA         1.762E-03 1.702E-03 0.000E+00 1.342E-10 6.984E-10 7.511E-08 3.083E-07 1.118E-06 2.228E-06 3.514E-06 5.155E-06
 U         2.420E+04 4.431E-02 0.000E+00 3.102E-04 3.083E-04 2.771E-04 2.443E-04 2.035E-04 1.880E-04 1.879E-04 1.989E-04
NP         2.165E+04 8.296E-04 0.000E+00 3.687E-09 1.400E-08 1.011E-06 4.152E-06 1.505E-05 3.000E-05 4.731E-05 6.941E-05
PU         9.133E+00 7.249E+00 7.252E+00 7.247E+00 7.241E+00 7.156E+00 7.060E+00 6.897E+00 6.762E+00 6.646E+00 6.528E+00
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AM	1.701E+00	1.672E-01	0.000E+00	8.903E-02	1.770E-01	1.444E+00	2.710E+00	4.452E+00	5.484E+00	6.078E+00	6.441E+00
CM	8.361E+00	5.778E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SUMTOT	4.587E+04	1.324E+01	7.252E+00	7.336E+00	7.418E+00	8.601E+00	9.770E+00	1.135E+01	1.225E+01	1.272E+01	1.297E+01
TOTAL	4.587E+04	1.324E+01	7.252E+00	7.336E+00	7.418E+00	8.601E+00	9.770E+00	1.135E+01	1.225E+01	1.272E+01	1.297E+01

CUMULATIVE TABLE TOTALS

AP+FP	3.227E+02	2.490E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ACT+FP	4.587E+04	1.324E+01	7.252E+00	7.336E+00	7.418E+00	8.601E+00	9.770E+00	1.135E+01	1.225E+01	1.272E+01	1.297E+01
AP+ACT+FP	4.619E+04	3.815E+01	7.252E+00	7.336E+00	7.418E+00	8.601E+00	9.770E+00	1.135E+01	1.225E+01	1.272E+01	1.297E+01

OUTPUT UNIT = 6 PAGE 57

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
H 3	4.976E-03	4.907E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LI 6	3.091E-05	3.091E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LI 7	8.841E-07	8.841E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BE 9	1.700E-06	1.700E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BE 10	1.136E-05	1.136E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
C 14	2.298E-06	2.298E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 72	2.453E-05	1.594E-19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 72	7.458E-06	6.936E-20	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 72	2.010E-03	2.042E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 73	5.397E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 73	4.418E-03	4.423E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 74	2.987E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 74	9.044E-03	9.044E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 75	6.519E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 75	1.940E-02	1.941E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 76	4.732E-02	4.732E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 76	1.103E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 76	8.707E-05	8.817E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 77	9.618E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 77	9.245E-04	1.060E-20	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 77	9.945E-02	1.005E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 78	7.351E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

AS 78	7.847E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 78	2.126E-01	2.128E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 79	1.305E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 79	1.937E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 79	5.405E-01	5.405E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 79M	8.382E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 79	2.948E-06	4.390E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 80	1.537E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 80	1.310E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 80	1.219E+00	1.219E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 80	1.546E-05	1.548E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 81	8.165E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 81	4.107E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 81	1.515E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 81M	1.325E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 81	2.078E+00	2.078E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 81	8.136E-07	8.136E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 82	3.361E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 82	2.536E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 82M	6.181E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 82	3.172E+00	3.172E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 82	3.262E-04	6.734E-23	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 82M	3.359E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 82	2.093E-02	2.126E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 83	3.008E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 83	1.678E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 83M	1.349E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 83	2.775E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 83	4.806E+00	4.811E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 58

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
KR 83M	2.125E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 84	1.037E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 84	1.109E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 84	1.102E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

BR 84M	6.380E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 84	9.896E+00	9.897E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 85	1.323E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 85M	4.714E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 85	1.218E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 85	2.432E+00	2.395E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 85M	1.156E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 85	9.250E+00	9.298E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 86	1.138E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 86	2.865E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 86M	2.359E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 86	1.839E+01	1.839E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 86	1.247E-03	4.194E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 86	5.881E-03	7.086E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 87	3.066E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 87	6.706E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 87	6.526E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 87	2.368E+01	2.369E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 87	9.965E-05	9.970E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 88	3.182E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 88	2.177E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 88	2.082E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 88	2.204E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 88	3.402E+01	3.404E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 89	4.381E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 89	4.836E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 89	2.456E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 89	1.094E+01	3.125E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 89	3.370E+01	4.152E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 90	1.031E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 90	8.216E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 90	4.060E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 90M	1.547E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 90	5.337E+01	5.305E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 90	1.368E-02	1.330E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 90M	3.706E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 90	6.044E-01	9.214E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 91	1.664E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 91	1.915E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 91	1.195E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 91	1.593E+01	5.443E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 91M	6.047E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 91	4.095E+01	5.156E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

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KR 92      1.688E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
RB 92      1.283E-05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SR 92      3.670E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 Y 92      4.811E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
                                                                          OUTPUT UNIT =  6                                PAGE   59
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:32:41

    *  PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL
                                                                                                   FISSION PRODUCTS
    POWER= 1.00000E+00 MW,  BURNUP= 1.00000E+00 MWD,  FLUX= 1.00E+00 N/CM**2-SEC

                    5 SUMMARY TABLE:  CONCENTRATIONS, GRAMS
                              PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL
           0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
ZR 92      6.051E+01 6.059E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
KR 93      4.241E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
RB 93      1.262E-05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SR 93      1.899E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 Y 93      1.569E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
ZR 93      6.760E+01 6.776E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
NB 93      1.492E-06 2.081E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
NB 93M     1.252E-05 1.961E-05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
RB 94      3.056E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SR 94      3.009E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 Y 94      4.957E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
ZR 94      6.730E+01 6.731E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
NB 94      4.937E-05 4.937E-05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SR 95      9.693E-05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 Y 95      2.924E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
ZR 95      2.238E+01 8.323E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
NB 95      1.086E+01 7.434E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
NB 95M     8.989E-03 3.483E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
MO 95      3.828E+01 5.577E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SR 96      1.040E-05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 Y 96      6.094E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
ZR 96      7.216E+01 7.216E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
NB 96      3.320E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
MO 96      2.888E-01 2.891E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 Y 97      4.230E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
ZR 97      2.858E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
NB 97      2.048E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
NB 97M     2.672E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
MO 97      7.018E+01 7.049E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
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SR 98	4.724E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 98	8.220E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 98	1.476E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 98	1.354E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 98M	1.314E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 98	7.202E+01	7.202E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC 98	8.527E-05	8.527E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 99	1.261E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 99	1.134E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 99	7.012E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 99M	2.859E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 99	1.211E+00	1.224E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC 99	7.288E+01	7.419E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC 99M	9.672E-02	1.075E-11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU 99	9.549E-05	1.558E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y100	5.431E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR100	3.135E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB100	6.574E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB100M	6.601E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO100	8.057E+01	8.057E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC100	2.400E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU100	1.136E+00	1.136E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 60

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
ZR101	9.428E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB101	3.148E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO101	4.169E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC101	4.051E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU101	6.812E+01	6.813E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR102	4.532E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB102	1.117E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO102	2.940E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC102	2.334E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC102M	1.198E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU102	6.212E+01	6.212E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

RH102	1.333E-05	1.256E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR103	9.874E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB103	3.886E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO103	2.434E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC103	2.059E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU103	1.242E+01	2.480E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH103	3.797E+01	4.792E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH103M	1.110E-02	2.218E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR104	4.375E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB104	1.082E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO104	2.887E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC104	3.512E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU104	3.981E+01	3.981E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH104	2.258E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH104M	1.007E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD104	3.437E+00	3.437E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB105	6.126E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO105	1.090E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC105	1.199E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU105	4.038E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH105	2.851E-01	7.344E-20	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH105M	3.184E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD105	2.554E+01	2.587E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO106	8.590E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC106	5.827E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU106	1.539E+01	1.296E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH106	2.037E-05	1.218E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH106M	7.598E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD106	7.202E+00	9.634E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO107	1.919E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC107	2.213E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU107	3.202E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH107	1.664E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD107	1.280E+01	1.280E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG107	4.460E-07	7.875E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC108	2.449E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU108	2.309E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH108	1.451E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH108M	3.124E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD108	8.515E+00	8.515E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
CD108	3.982E-06	3.982E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC109	1.275E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU109	1.919E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH109	5.108E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH109M	1.419E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD109	2.828E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD109M	7.996E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG109	5.264E+00	5.292E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG109M	2.310E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU110	3.949E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH110	7.654E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD110	2.925E+00	2.925E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG110	1.489E-06	1.861E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG110M	1.582E-02	1.228E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD110	3.702E-01	3.737E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU111	1.881E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH111	9.948E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD111	2.115E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD111M	4.083E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG111	1.035E-01	2.121E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG111M	1.037E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD111	1.749E+00	1.853E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH112	4.264E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD112	6.947E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG112	1.084E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD112	1.204E+00	1.212E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD113	7.329E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG113	1.400E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG113M	5.438E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD113	5.160E-02	5.299E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD113M	1.814E-02	1.794E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN113	3.185E-04	5.327E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD114	8.821E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD114	1.841E+00	1.841E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN114M	1.110E-06	3.092E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN114	3.976E-06	4.717E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PD115	2.398E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG115	5.655E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG115M	3.063E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD115	1.149E-02	5.311E-15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD115M	2.003E-02	4.845E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN115	5.819E-01	6.091E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN115M	9.263E-04	1.368E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN115	2.994E-02	3.040E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD116	6.966E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG116	4.402E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD116	7.645E-01	7.645E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN116M	4.711E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN116	2.663E-01	2.663E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG117	2.022E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD117	3.404E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
CD117M	2.418E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN117	8.866E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN117M	2.969E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN117	7.797E-01	7.807E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN117M	1.948E-05	2.123E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD118	1.687E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN118	7.828E-01	7.830E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG119	3.047E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD119	1.575E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD119M	5.361E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN119	2.412E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN119M	4.526E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN119	7.700E-01	7.719E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN119M	7.857E-03	6.069E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD120	2.842E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN120	1.264E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN120	7.952E-01	7.952E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD121	7.188E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

IN121	1.332E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN121M	2.335E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN121	5.734E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN121M	2.508E-04	2.499E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB121	8.167E-01	8.224E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD122	3.028E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN122	5.882E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN122	8.801E-01	8.801E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB122	2.710E-04	1.791E-14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE122	8.097E-03	8.361E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD123	4.479E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN123M	9.620E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN123	1.022E-01	6.261E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN123M	1.377E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB123	8.877E-01	9.274E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE123	2.371E-05	2.634E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE123M	6.395E-06	3.768E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD124	8.466E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN124	1.184E+00	1.184E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB124	2.693E-03	9.410E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE124	3.260E-03	5.012E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN125M	4.218E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN125	4.029E-02	5.676E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN125M	4.434E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB125	1.482E+00	1.430E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE125	1.313E-01	2.195E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE125M	1.362E-02	1.739E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN126	2.347E+00	2.347E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB126	2.927E-03	1.785E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB126M	1.731E-06	8.478E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE126	4.548E-02	4.839E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN127	1.772E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN127M	2.785E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 63

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y

SB127	1.228E-01	9.018E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE127	1.180E-02	6.493E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE127M	3.135E-01	1.855E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I127	4.281E+00	4.545E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN128	3.870E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN128	2.088E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB128	1.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB128M	3.971E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE128	9.209E+00	9.213E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I128	7.576E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE128	3.299E-02	3.300E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN129	1.720E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN129M	6.916E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB129	1.760E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE129	4.613E-03	6.339E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE129M	4.430E-01	6.770E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I129	1.500E+01	1.540E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE129	4.177E-05	4.224E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE129M	3.005E-07	1.101E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN130	2.859E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB130	8.720E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB130M	6.414E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE130	2.961E+01	2.961E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I130	9.507E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I130M	4.593E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE130	1.669E-01	1.679E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN131	7.295E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB131	4.246E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE131	4.860E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE131M	5.624E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I131	2.537E+00	9.965E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE131	4.673E+01	4.943E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE131M	4.168E-02	6.071E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN132	2.628E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB132	3.153E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB132M	3.058E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE132	1.476E+00	5.402E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I132	4.405E-02	1.637E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE132	7.820E+01	7.972E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS132	9.400E-05	5.341E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA132	2.426E-05	2.614E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN133	3.009E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB133	3.267E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

TE133	3.346E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE133M	9.731E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I133	5.765E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I133M	1.975E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE133	3.490E+00	2.466E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE133M	4.504E-02	2.050E-14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS133	1.070E+02	1.111E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB134	3.907E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
SB134M	3.506E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE134	1.657E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I134	2.685E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I134M	1.686E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE134	1.280E+02	1.280E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS134	2.759E+00	2.537E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS134M	3.942E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA134	2.411E-01	4.635E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB135	3.765E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE135	6.550E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I135	1.725E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE135	6.534E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE135M	1.371E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS135	2.908E+01	2.932E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS135M	2.067E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA135	2.729E-04	2.756E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA135M	5.238E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE136	3.946E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I136	2.870E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I136M	9.582E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE136	1.964E+02	1.964E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS136	7.820E-02	6.240E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA136	5.936E-01	6.712E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE137	1.827E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I137	8.599E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

XE137	1.583E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS137	1.055E+02	1.049E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA137	9.951E-01	1.603E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA137M	1.625E-05	1.605E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I138	1.143E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE138	5.703E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS138	1.431E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS138M	5.833E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA138	1.130E+02	1.130E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA138	7.358E-04	7.358E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I139	1.976E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE139	2.102E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS139	3.986E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA139	3.605E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA139	1.088E+02	1.088E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE140	4.873E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS140	4.092E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA140	7.732E+00	5.483E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA140	1.019E+00	8.269E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE140	9.909E+01	1.078E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE141	2.147E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS141	1.218E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA141	7.397E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA141	9.592E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE141	1.797E+01	2.580E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR141	8.284E+01	9.833E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 65

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
XE142	5.442E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS142	5.126E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA142	4.169E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA142	3.694E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE142	1.003E+02	1.003E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR142	2.834E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR142M	7.699E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

ND142	2.751E-01	2.779E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS143	2.610E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA143	7.865E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA143	5.422E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE143	7.701E-01	7.917E-21	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR143	7.433E+00	7.807E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND143	8.433E+01	9.255E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS144	4.228E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA144	4.912E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA144	2.309E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE144	6.426E+01	5.143E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR144	2.738E-03	2.172E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR144M	1.358E-05	1.086E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND144	3.282E+01	4.565E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA145	1.407E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA145	1.206E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE145	8.021E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR145	9.597E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND145	6.616E+01	6.626E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA146	1.847E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA146	2.242E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE146	3.014E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR146	5.155E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND146	5.505E+01	5.506E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM146	1.741E-04	1.687E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM146	3.464E-05	3.664E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA147	4.362E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA147	1.314E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE147	1.904E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR147	2.011E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND147	2.660E+00	8.710E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM147	2.708E+01	2.786E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM147	3.181E+00	5.053E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA148	6.398E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE148	8.454E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR148	3.016E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND148	3.235E+01	3.235E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM148	2.787E-01	4.376E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM148M	2.753E-01	5.945E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM148	5.777E+00	6.271E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA149	3.468E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE149	1.074E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR149	2.070E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

ND149	9.554E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 66

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
PM149	3.132E-01	1.207E-13	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM149	6.226E-01	9.456E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE150	4.799E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR150	1.193E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND150	1.466E+01	1.466E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM150	1.141E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM150	2.166E+01	2.166E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR151	2.099E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND151	5.636E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM151	7.767E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM151	3.684E+00	3.755E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU151	4.650E-03	1.189E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE152	4.446E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR152	1.899E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND152	3.603E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM152	1.314E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM152M	4.384E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM152	1.238E+01	1.238E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU152	6.292E-03	6.212E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU152M	1.197E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD152	1.910E-03	1.941E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR153	5.586E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND153	2.049E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM153	1.118E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM153	1.095E-01	8.161E-16	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU153	5.557E+00	5.667E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD153	3.491E-04	2.688E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND154	5.937E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM154	3.067E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM154M	3.350E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM154	2.623E+00	2.623E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU154	7.176E-01	7.033E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

GD154	1.426E-02	2.857E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND155	1.465E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM155	4.126E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM155	1.698E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU155	3.107E-01	3.002E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD155	2.096E-03	1.277E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND156	1.116E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM156	7.733E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM156	2.701E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU156	2.728E-01	4.266E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD156	1.908E+00	2.179E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM157	1.863E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM157	2.428E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU157	3.111E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD157	1.407E-02	1.721E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM158	6.931E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU158	7.768E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD158	8.949E-01	8.950E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM159	1.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
EU159	1.587E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD159	1.019E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB159	1.486E-01	1.496E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM160	1.592E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU160	3.539E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD160	7.271E-02	7.271E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB160	1.839E-03	7.663E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY160	1.494E-03	2.567E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD161	7.840E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB161	2.134E-03	2.276E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY161	3.140E-02	3.353E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD162	1.102E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB162	8.153E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB162M	4.534E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

DY162	2.102E-02	2.102E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB163	9.642E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY163	1.051E-02	1.051E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD164	4.171E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY164	3.232E-03	3.232E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY165	3.973E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HO165	3.962E-03	3.966E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY166	3.334E-05	2.682E-13	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HO166	1.350E-05	1.314E-13	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HO166M	8.320E-06	8.319E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ER166	1.368E-03	1.415E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ER167	4.507E-04	4.507E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ER168	1.821E-04	1.821E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SUMTOT	2.967E+03	2.967E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL	2.967E+03	2.967E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
H	4.976E-03	4.907E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LI	3.179E-05	3.179E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BE	1.306E-05	1.306E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
C	2.298E-06	2.298E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN	2.462E-05	1.594E-19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA	1.356E-05	6.936E-20	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE	6.297E-02	6.283E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0,000E+00	0.000E+00	0.000E+00
AS	2.044E-02	1.941E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE	5.244E+00	5.245E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR	2.082E+00	2.078E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR	3.559E+01	3.552E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB	3.294E+01	3.298E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR	9.849E+01	9.023E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y	4.986E+01	4.697E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR	3.318E+02	3.286E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB	1.089E+01	7.438E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO	2.626E+02	2.791E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

TC	7.299E+01	7.419E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU	1.990E+02	1.866E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH	3.827E+01	4.792E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD	6.045E+01	6.318E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG	5.386E+00	5.305E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD	6.031E+00	6.120E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN	5.836E-01	6.096E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN	7.996E+00	7.908E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB	3.341E+00	3.181E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE	4.136E+01	3.938E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I	2.264E+01	1.994E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE	4.532E+02	4.538E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS	2.444E+02	2.479E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA	1.226E+02	1.158E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA	1.100E+02	1.088E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE	2.824E+02	2.621E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR	9.038E+01	9.841E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND	2.883E+02	3.068E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM	2.803E+01	2.792E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM	5.004E+01	5.269E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU	6.872E+00	6.693E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD	2.909E+00	3.208E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB	1.526E-01	1.504E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY	6.769E-02	7.087E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HO	3.984E-03	3.974E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ER	2.001E-03	2.048E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SUMTOT	2.967E+03	2.967E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL	2.967E+03	2.967E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

CUMULATIVE TABLE TOTALS

AP+FP	7.864E+04	7.864E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ACT+FP	1.000E+06	1.000E+06	2.231E+03	2.231E+03	2.231E+03	2.231E+03	2.231E+03	2.231E+03	2.231E+03	2.231E+03	2.231E+03
AP+ACT+FP	1.076E+06	1.076E+06	2.231E+03	2.231E+03	2.231E+03	2.231E+03	2.231E+03	2.231E+03	2.231E+03	2.231E+03	2.231E+03

OUTPUT UNIT = 6 PAGE 69

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES

PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
H 3	4.804E+01	4.737E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 72	5.720E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 72	1.072E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 72	2.009E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 72	2.297E+01	1.493E-13	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 72	2.303E+01	2.142E-13	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 73	1.819E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 73	8.939E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 73	2.809E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 73	4.556E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 73	4.749E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 73M	4.752E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 74	3.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 74	5.802E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 74	3.979E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 74	8.878E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 74	9.374E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 75	2.344E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 75	3.989E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 75	1.671E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 75	1.958E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 75	1.975E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 75M	8.688E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 76	6.125E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 76	3.096E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 76	3.017E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 76	4.388E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 76	1.729E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 77	1.037E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 77	1.434E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 77	3.405E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 77	8.096E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 77	3.466E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 77M	7.858E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 77	9.700E+02	1.112E-14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 77M	2.415E+00	2.758E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 78	1.196E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 78	5.133E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 78	3.439E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 78	1.453E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 78	2.038E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

AS 78	2.086E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 79	1.402E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 79	2.102E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 79	1.594E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 79	4.336E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 79	5.125E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 79	3.767E-02	3.767E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 79M	5.131E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 80	1.501E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 80	7.860E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 70

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
GA 80	1.700E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 80	9.035E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 80	1.120E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 80	2.274E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 80M	1.488E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 81	1.093E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 81	1.761E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 81	9.963E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 81	1.126E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 81	1.788E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 81	1.902E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 81M	5.370E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 81M	6.120E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 82	2.235E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 82	3.626E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 82	1.006E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 82	1.662E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 82M	6.544E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 82	3.533E+02	7.292E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 82M	1.257E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 83	2.069E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 83	9.943E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 83	7.343E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

AS 83	3.030E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 83	1.690E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 83M	2.621E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 83	4.386E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 83M	4.386E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 84	1.165E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 84	2.112E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 84	2.402E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 84	7.526E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 84	7.760E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 84M	2.381E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 85	5.709E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 85	1.474E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 85	4.504E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 85M	3.294E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 85	9.403E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 85	9.546E+02	9.402E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 85M	9.516E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 86	1.082E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 86	8.019E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 86	8.997E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 86	6.836E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 86M	6.880E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 86	1.015E+02	3.414E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 86M	2.593E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 87	1.570E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 87	4.189E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 87	7.103E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 71

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
BR 87	1.559E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 87	1.849E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 87M	5.835E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 88	5.330E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 88	2.954E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

SE 88	2.721E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 88	1.713E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 88	2.613E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 88	2.647E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 89	3.042E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 89	7.807E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 89	1.235E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 89	3.224E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 89	3.415E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 89	3.180E+05	9.082E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 89M	1.405E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 90	2.492E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 90	8.081E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 90	3.188E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 90	3.328E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 90M	7.519E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 90	7.283E+03	7.240E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 90	7.446E+03	7.242E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 90M	4.164E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 91	3.486E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 91	2.751E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 91	2.372E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 91	4.081E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 91	4.334E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 91	3.909E+05	1.335E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 91M	2.514E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 92	1.668E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 92	2.541E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 92	1.125E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 92	3.513E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 92	4.615E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 92	4.633E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 93	4.809E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 93	4.053E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 93	2.641E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 93	5.121E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 93	5.237E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 93	1.699E-01	1.703E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 93M	3.540E-03	5.544E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 94	3.960E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 94	1.563E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 94	1.364E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 94	4.779E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Y 94	5.194E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 94M	3.073E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 95	3.002E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 72

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
KR 95	1.782E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 95	7.019E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 95	4.429E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 95	5.514E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 95	4.810E+05	1.789E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 95	4.248E+05	2.908E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 95M	3.425E+03	1.327E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 96	1.611E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 96	2.843E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 96	1.924E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 96	3.057E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 96	5.192E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 96	4.643E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 97	1.593E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 97	3.643E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 97	1.612E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 97	4.434E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 97	5.466E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 97	5.508E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 97M	5.182E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 98	1.938E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 98	8.170E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 98	6.401E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 98	3.156E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 98	5.484E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 98	5.569E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 98M	4.897E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 99	7.967E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 99	1.736E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 99	1.797E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

ZR 99	5.387E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 99	5.590E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 99M	2.089E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 99	5.811E+05	5.871E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC 99	1.236E+00	1.258E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC 99M	5.088E+05	5.656E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB100	6.884E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR100	3.363E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y100	8.105E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR100	4.984E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB100	3.092E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB100M	3.091E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC100	1.714E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR101	4.809E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y101	2.657E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR101	3.193E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB101	5.025E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO101	5.311E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC101	5.313E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR102	4.315E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y102	6.382E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
ZR102	1.752E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB102	4.120E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO102	4.885E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC102	4.891E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC102M	5.079E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH102	1.612E-02	1.518E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR103	1.361E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y103	8.605E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR103	6.113E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB103	2.717E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO103	4.445E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC103	4.512E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

RU103	4.010E+05	8.006E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH103M	3.612E+05	7.217E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR104	5.180E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y104	6.815E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR104	1.255E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB104	1.174E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO104	3.264E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC104	3.490E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH104	5.793E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH104M	4.197E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y105	3.637E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR105	1.645E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB105	3.658E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO105	2.170E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC105	2.685E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU105	2.716E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH105	2.407E+05	6.201E-14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH105M	7.606E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR106	2.173E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB106	9.251E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO106	1.016E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC106	1.677E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU106	5.151E+04	4.338E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH106	7.254E+04	4.338E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH106M	1.021E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR107	1.034E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB107	1.319E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO107	3.167E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC107	8.049E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU107	1.340E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH107	1.348E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD107	6.586E-03	6.587E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD107M	1.971E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR108	3.482E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB108	4.328E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO108	1.180E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC108	4.922E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU108	8.937E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH108	9.026E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
RH108M	9.222E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG108	6.966E-02	1.403E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR109	2.538E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB109	8.614E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO109	4.489E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC109	2.589E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU109	5.677E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH109	5.877E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH109M	2.939E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD109	6.043E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD109M	2.942E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG109M	6.040E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB110	1.004E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO110	1.044E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC110	7.224E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU110	2.532E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH110	2.708E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH110M	1.762E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG110	6.211E+03	7.762E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG110M	7.518E+01	5.836E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB111	8.559E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO111	2.250E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC111	2.784E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU111	1.240E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH111	1.606E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD111	1.629E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD111M	2.097E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG111	1.635E+04	3.351E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG111M	1.622E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD111M	1.673E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO112	4.154E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC112	1.033E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU112	6.275E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH112	9.142E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD112	9.675E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG112	9.693E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

MO113	2.954E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC113	2.800E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU113	3.741E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH113	6.987E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD113	8.134E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG113	7.329E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG113M	8.230E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD113M	3.935E+00	3.893E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO114	3.030E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC114	6.429E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU114	1.838E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH114	4.467E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD114	6.065E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG114	6.137E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN114	8.210E-02	6.847E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 75

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
IN114M	2.569E-02	7.155E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO115	2.031E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC115	1.363E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU115	8.937E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH115	3.656E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD115	6.193E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG115	4.625E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG115M	1.768E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD115	5.858E+03	2.708E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD115M	5.102E+02	1.234E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN115M	5.873E+03	8.674E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC116	8.461E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU116	2.014E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH116	1.788E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD116	4.841E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG116	2.664E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG116M	2.664E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN116	1.789E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

IN116M	1.411E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC117	3.614E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU117	3.075E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH117	1.094E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD117	4.495E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG117	2.665E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG117M	2.665E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD117	3.508E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD117M	1.906E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN117	3.240E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN117M	4.101E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN117M	1.553E+00	1.692E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU118	1.994E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH118	1.552E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD118	3.727E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG118	3.588E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG118M	2.428E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD118	5.347E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN118	5.347E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN118M	1.814E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH119	1.117E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD119	2.542E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG119	4.817E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD119	2.649E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD119M	2.648E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN119	1.525E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN119M	3.975E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN119M	3.520E+01	2.719E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU120	4.151E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH120	1.873E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD120	1.045E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG120	3.485E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD120	5.262E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 76

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y

IN120	2.678E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN120M	2.678E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH121	2.963E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD121	4.113E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG121	2.463E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD121	5.238E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN121	4.437E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN121M	1.100E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN121	5.544E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN121M	1.483E-02	1.478E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH122	3.595E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD122	1.269E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG122	1.544E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD122	5.093E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN122	5.442E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN122M	3.487E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB122	1.075E+02	7.103E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB122M	9.695E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH123	3.085E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD123	2.899E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG123	8.173E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD123	4.890E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN123	4.485E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN123M	1.839E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN123	8.403E+02	5.148E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN123M	5.254E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE123M	5.675E-02	3.344E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD124	5.288E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG124	3.661E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD124	4.488E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN124	7.230E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB124	4.713E+01	1.647E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB124M	2.190E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG125	1.092E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD125	3.076E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN125	4.383E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN125M	3.174E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN125	4.368E+03	6.153E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN125M	7.009E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB125	1.531E+03	1.477E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE125M	2.454E+02	3.134E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD126	7.325E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG126	3.281E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

CD126	2.286E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN126	9.965E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN126	6.661E-02	6.661E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB126	2.448E+02	1.493E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB126M	1.360E+02	6.661E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD127	1.120E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN127	5.452E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN127M	5.459E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 77

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
SN127	2.083E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN127M	9.980E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB127	3.281E+04	2.410E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE127	3.115E+04	1.714E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE127M	2.958E+03	1.750E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG128	1.204E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD128	4.248E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN128	9.223E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN128	5.201E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB128	4.322E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB128M	5.611E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I128	4.456E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD129	1.850E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN129	7.449E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN129	3.344E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN129M	4.034E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB129	9.903E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE129	9.665E+04	1.328E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE129M	1.335E+04	2.040E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I129	2.649E-03	2.719E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE129M	3.804E-02	1.394E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD130	1.934E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN130	9.028E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN130	1.112E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB130	3.154E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

SB130M	1.473E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I130	1.855E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I130M	7.384E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD131	3.097E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN131	3.314E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN131	9.976E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB131	2.651E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE131	2.791E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE131M	4.487E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I131	3.146E+05	1.236E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE131M	3.493E+03	5.088E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD132	2.872E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN132	8.992E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN132	5.618E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB132	1.605E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB132M	1.038E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE132	4.483E+05	1.641E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I132	4.549E+05	1.690E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS132	1.437E+01	8.163E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN133	9.984E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN133	1.737E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB133	1.925E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE133	3.801E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE133M	2.484E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I133	6.533E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I133M	1.862E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 78

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
XE133	6.535E+05	4.617E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE133M	2.020E+04	9.197E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN134	5.640E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN134	2.319E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB134	2.992E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB134M	2.760E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE134	5.565E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

I134	7.166E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I134M	6.397E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE134M	4.406E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS134	3.571E+03	3.284E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS134M	3.180E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN135	2.756E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB135	1.852E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE135	2.852E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I135	6.060E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE135	1.670E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE135M	1.249E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS135	3.350E-02	3.377E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS135M	5.434E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA135M	4.239E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN136	2.417E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB136	3.627E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE136	1.559E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I136	2.870E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I136M	1.729E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS136	5.733E+03	4.575E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA136M	9.449E+02	7.539E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB137	5.355E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE137	4.300E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I137	2.880E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE137	5.675E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS137	9.181E+03	9.128E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA137M	8.744E+03	8.635E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB138	6.755E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE138	1.105E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I138	1.461E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE138	5.486E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS138	6.058E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS138M	2.742E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB139	5.002E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE139	2.179E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I139	6.685E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE139	4.321E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS139	6.739E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA139	5.899E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE140	2.714E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I140	1.960E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE140	2.889E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS140	5.171E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

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BA140      5.641E+05 4.001E+03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
                                                                                OUTPUT UNIT =  6                          PAGE   79
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:32:41

    *  PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL
                                                                                                   FISSION PRODUCTS
    POWER= 1.00000E+00 MW,  BURNUP= 1.00000E+00 MWD,  FLUX= 1.00E+00 N/CM**2-SEC

                    7 SUMMARY TABLE:  RADIOACTIVITY,  CURIES
                              PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL
            0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
LA140       5.673E+05 4.604E+03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
PR140       9.948E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
TE141       1.229E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 I141       3.264E+03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
XE141       9.992E+04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CS141       3.900E+05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
BA141       5.402E+05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
LA141       5.426E+05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CE141       5.121E+05 7.351E+04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
TE142       1.289E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 I142       4.550E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
XE142       3.545E+04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CS142       2.397E+05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
BA142       5.161E+05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
LA142       5.279E+05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
PR142       3.271E+03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
PR142M      6.986E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 I143       2.913E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
XE143       5.733E+03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CS143       1.212E+05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
BA143       4.564E+05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
LA143       5.095E+05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CE143       5.116E+05 5.259E-15 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
PR143       5.006E+05 5.257E+03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 I144       2.399E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
XE144       1.025E+03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CS144       3.249E+04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
BA144       3.500E+05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
LA144       4.524E+05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CE144       2.051E+05 1.641E+05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
PR144       2.069E+05 1.641E+05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
PR144M      2.464E+03 1.970E+03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
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XE145	1.075E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS145	8.311E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA145	1.766E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA145	3.237E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE145	3.469E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR145	3.470E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE146	7.223E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS146	1.215E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA146	6.490E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA146	2.088E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE146	2.735E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR146	2.745E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM146	7.754E-02	7.514E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE147	6.467E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS147	2.077E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA147	1.504E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA147	1.009E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE147	2.088E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR147	2.144E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 80

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
ND147	2.137E+05	6.998E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM147	2.511E+04	2.584E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS148	1.348E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA148	2.660E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA148	3.753E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE148	1.499E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR148	1.667E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM148	4.581E+04	7.192E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM148M	5.884E+03	1.271E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA149	3.015E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA149	9.172E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE149	8.135E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR149	1.136E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND149	1.162E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PM149	1.241E+05	4.786E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
CS150	1.271E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
BA150	2.274E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
LA150	1.739E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
CE150	3.611E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
PR150	7.239E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
PM150	8.899E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
LA151	2.230E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
CE151	1.060E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
PR151	3.922E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
ND151	5.662E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
PM151	5.680E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SM151	9.696E+01	9.883E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
BA152	6.185E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
LA152	2.604E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
CE152	2.353E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
PR152	1.695E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
ND152	3.877E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
PM152	3.966E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
PM152M	7.234E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
EU152	1.089E+00	1.075E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
EU152M	2.649E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
LA153	2.793E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
CE153	4.311E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
PR153	5.322E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
ND153	2.238E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
PM153	2.539E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SM153	4.805E+04	3.582E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
GD153	1.232E+00	9.482E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
LA154	1.304E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
CE154	5.108E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
PR154	1.236E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
ND154	1.088E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
PM154	1.338E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
PM154M	2.273E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
EU154	1.938E+02	1.899E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
CE155	6.119E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

? SUMMARY TABLE: RADIOACTIVITY, CURIES
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
PR155	2.531E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND155	4.093E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM155	8.218E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM155	9.282E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU155	1.446E+02	1.397E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE156	5.866E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR156	4.759E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND156	1.380E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM156	4.271E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM156	5.775E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU156	1.504E+04	2.353E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE157	4.677E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR157	7.821E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND157	3.855E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM157	1.969E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM157	3.636E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU157	4.087E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR158	6.051E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND158	5.896E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM158	6.076E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM158	1.876E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU158	2.015E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR159	2.443E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND159	6.196E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM159	1.354E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM159	8.468E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU159	1.037E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD159	1.080E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND160	5.521E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM160	2.511E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM160	3.217E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU160	4.895E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB160	2.077E+01	8.653E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND161	4.293E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM161	3.141E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM161	8.926E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU161	2.150E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD161	2.476E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB161	2.502E+02	2.669E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

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PM162      1.555E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SM162      1.307E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
EU162      6.967E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
GD162      1.280E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
TB162      1.267E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
TB162M     3.935E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SM163      1.619E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
EU163      1.717E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
GD163      5.281E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
TB163      5.706E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SM164      1.567E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
EU164      3.777E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
                                                                                OUTPUT UNIT =  6                        PAGE   82
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:32:41

    *  PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL
                                                                                                FISSION PRODUCTS
    POWER= 1.00000E+00 MW,  BURNUP= 1.00000E+00 MWD,  FLUX= 1.00E+00 N/CM**2-SEC

                    7 SUMMARY TABLE:  RADIOACTIVITY,  CURIES
                              PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL
           0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
GD164      2.206E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
TB164      2.721E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SM165      1.039E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
EU165      6.411E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
GD165      7.830E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
TB165      1.246E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
DY165      3.212E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
DY165M     1.477E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
DY166      7.726E+00 6.214E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
HO166      9.514E+00 9.259E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
ER167M     5.442E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SUMTOT     5.449E+07 1.427E+06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00

TOTAL      5.449E+07 1.427E+06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
                                                                                OUTPUT UNIT =  6                        PAGE   83
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:32:41

    *  PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL
                                                                                                FISSION PRODUCTS
    POWER= 1.00000E+00 MW,  BURNUP= 1.00000E+00 MWD,  FLUX= 1.00E+00 N/CM**2-SEC
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7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
H	4.804E+01	4.737E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO	7.908E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI	2.853E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU	1.798E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN	1.619E+03	1.493E-13	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA	7.824E+03	2.142E-13	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE	4.827E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS	1.420E+05	1.112E-14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE	4.199E+05	3.767E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR	9.176E+05	7.292E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR	1.635E+06	9.402E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB	2.268E+06	3.414E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR	3.205E+06	9.806E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y	4.280E+06	1.408E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR	3.183E+06	1.789E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB	4.609E+06	2.921E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO	2.739E+06	5.871E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC	2.950E+06	1.258E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU	1.055E+06	1.234E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH	1.211E+06	1.155E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD	1.536E+05	6.587E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG	1.599E+05	6.249E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD	5.472E+04	1.273E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN	1.159E+05	2.268E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN	4.668E+05	5.482E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB	1.175E+06	1.496E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE	2.599E+06	7.146E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I	3.815E+06	1.236E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE	2.953E+06	5.550E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS	2.539E+06	1.246E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA	3.286E+06	1.264E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA	3.282E+06	4.604E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE	2.339E+06	2.377E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR	1.966E+06	1.714E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND	4.645E+05	6.998E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM	3.553E+05	2.718E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM	6.999E+04	9.883E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU	2.334E+04	5.659E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD	1.540E+03	9.482E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB	4.984E+02	8.680E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

DY	5.462E+01	6.214E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HO	9.514E+00	1.503E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ER	5.442E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SUMTOT	5.449E+07	1.427E+06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL	5.449E+07	1.427E+06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

CUMULATIVE TABLE TOTALS

AP+FP	5.455E+07	1.432E+06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ACT+FP	7.245E+07	1.434E+06	6.951E+03	6.874E+03	6.797E+03	5.683E+03	4.561E+03	2.983E+03	2.005E+03	1.399E+03	9.715E+02
AP+ACT+FP	7.251E+07	1.440E+06	6.951E+03	6.874E+03	6.797E+03	5.683E+03	4.561E+03	2.983E+03	2.005E+03	1.399E+03	9.715E+02

OUTPUT UNIT = 6

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
H 3	1.617E-03	1.595E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 72	2.909E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 72	2.038E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 72	5.586E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 72	3.476E-02	2.259E-16	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 72	4.378E-01	4.072E-15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 73	8.221E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 73	2.848E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 73	5.757E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 73	6.630E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 73	2.148E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 73M	1.887E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 74	2.086E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 74	1.462E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 74	1.322E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 74	5.705E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 74	2.412E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 75	8.917E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 75	1.065E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 75	3.248E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 75	1.603E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

GE 75	5.455E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 75M	7.158E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 76	1.914E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 76	1.216E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 76	3.932E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 76	1.267E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 76	1.531E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 77	4.543E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 77	4.694E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 77	8.531E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 77	1.228E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 77	3.560E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 77M	4.816E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 77	1.366E+00	1.566E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 77M	3.578E-03	4.087E-20	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 78	4.467E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 78	2.310E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 78	6.307E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 78	3.948E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 78	6.221E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 78	3.261E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 79	5.432E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 79	6.554E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 79	3.308E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 79	5.510E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 79	2.670E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 79	9.378E-06	9.378E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 79M	2.889E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 80	8.489E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 80	1.894E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 85

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
GA 80	5.665E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 80	5.511E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 80	2.078E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

BR 80	1.081E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 80M	7.456E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 81	5.901E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 81	7.583E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 81	2.646E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 81	2.168E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 81	1.769E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 81	6.910E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 81M	3.279E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 82	8.915E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 82	1.631E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 82	1.230E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 82	3.438E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 82M	2.213E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 82	5.819E+00	1.201E-18	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 82M	5.821E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 83	1.009E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 83	4.208E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 83	2.194E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 83	4.779E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 83	3.007E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 83M	3.435E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 83	8.543E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 83M	1.060E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 84	5.899E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 84	5.426E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 84	8.352E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 84	4.189E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 84	1.397E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 84M	5.172E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 85	2.054E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 85	4.402E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 85	8.955E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 85M	6.823E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 85	5.802E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 85	1.430E+00	1.408E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 85M	2.330E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 86	3.565E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 86	3.235E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 86	1.301E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 86	2.064E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 86M	1.938E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 86	4.587E-01	1.543E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

RB 86M	8.609E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 87	6.632E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 87	1.464E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 87	1.784E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 87	3.569E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 86

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
KR 87	2.324E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 87M	1.338E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 88	2.053E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 88	1.384E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 88	6.011E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 88	2.568E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 88	3.592E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 88	4.211E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 89	1.322E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 89	2.358E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 89	3.511E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 89	6.112E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 89	6.273E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 89	1.099E+03	3.140E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 89M	7.634E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 90	6.781E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 90	2.718E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 90	4.896E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 90	7.932E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 90M	1.993E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 90	8.453E+00	8.403E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 90	4.127E+01	4.014E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 90M	1.686E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 91	1.352E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 91	8.794E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 91	4.642E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 91	9.838E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 91	3.473E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Y 91	1.404E+03	4.796E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 91M	8.310E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 92	5.507E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 92	1.008E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 92	2.127E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 92	7.776E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 92	4.199E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 92	4.663E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 93	1.871E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 93	1.152E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 93	5.388E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 93	7.759E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 93	3.918E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 93	1.974E-05	1.979E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 93M	6.272E-07	9.823E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 94	1.985E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 94	3.584E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 94	3.829E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 94	5.983E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 94	8.654E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 94M	8.579E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 95	1.334E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 95	6.222E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 87

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
RB 95	1.882E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 95	8.667E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 95	7.302E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 95	2.436E+03	9.061E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 95	2.038E+03	1.395E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 95M	4.759E+00	1.844E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 96	8.946E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 96	8.179E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 96	7.039E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 96	4.479E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Y 96	1.191E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 96	7.721E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 97	6.606E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 97	1.130E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 97	4.000E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 97	8.140E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 97	2.848E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 97	3.667E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 97M	2.281E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 98	6.557E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 98	3.295E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 98	1.209E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 98	8.954E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 98	2.935E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 98	6.873E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 98M	9.420E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 99	2.844E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 99	5.355E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 99	3.982E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 99	7.708E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 99	5.159E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 99M	2.686E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 99	1.866E+03	1.885E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC 99	6.199E-04	6.310E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC 99M	4.289E+02	4.767E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB100	3.452E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR100	7.903E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y100	2.799E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR100	4.044E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB100	7.294E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB100M	6.384E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC100	1.509E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR101	1.737E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y101	7.265E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR101	5.910E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB101	6.646E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO101	6.066E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC101	2.550E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR102	1.248E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y102	2.528E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR102	2.254E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
NB102	1.020E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO102	9.005E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC102	5.045E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC102M	9.640E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH102	2.056E-04	1.937E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR103	5.667E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y103	2.825E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR103	1.499E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB103	5.024E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO103	6.045E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC103	3.282E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU103	1.342E+03	2.678E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH103M	8.315E+01	1.661E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR104	1.834E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y104	3.081E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR104	2.215E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB104	3.546E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO104	2.002E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC104	7.589E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH104	3.425E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH104M	3.483E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y105	1.433E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR105	4.886E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB105	8.579E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO105	4.006E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC105	2.962E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU105	1.906E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH105	3.295E+02	8.487E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH105M	5.811E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR106	5.100E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB106	3.293E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO106	1.081E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC106	3.865E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU106	3.063E+00	2.579E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH106	6.957E+02	4.160E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

RH106M	1.947E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR107	3.678E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB107	3.885E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO107	6.933E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC107	1.336E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU107	1.154E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH107	6.448E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD107M	2.453E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR108	1.002E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB108	1.799E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO108	1.883E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC108	1.348E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU108	2.734E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH108	1.248E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH108M	1.738E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG108	2.593E-04	5.222E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
ZR109	1.032E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB109	3.010E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO109	1.222E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC109	5.713E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU109	8.016E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH109	4.442E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH109M	4.355E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD109	1.607E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD109M	3.279E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG109M	3.114E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB110	4.661E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO110	2.171E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC110	2.414E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU110	2.310E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH110	5.800E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH110M	2.650E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG110	4.462E+01	5.576E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

AG110M	1.255E+00	9.745E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB111	3.436E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO111	7.307E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC111	7.538E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU111	2.384E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH111	2.165E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD111	8.663E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD111M	7.308E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG111	3.662E+01	7.506E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG111M	6.250E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD111M	3.928E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO112	1.067E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC112	4.012E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU112	8.206E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH112	2.207E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD112	8.889E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG112	1.203E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO113	1.123E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC113	9.009E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU113	8.968E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH113	1.248E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD113	9.575E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG113	4.574E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG113M	5.761E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD113M	6.625E-03	6.553E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO114	9.335E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC114	2.851E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU114	3.209E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH114	1.286E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD114	4.217E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG114	7.458E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN114	3.910E-04	3.261E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN114M	3.645E-05	1.015E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO115	8.688E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 90

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
TC115	5.109E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU115	2.591E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH115	8.202E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD115	9.468E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG115	4.729E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG115M	2.000E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD115	1.859E+01	8.594E-12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD115M	1.903E+00	4.603E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN115M	1.171E+01	1.730E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC116	4.144E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU116	4.451E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH116	6.079E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD116	4.503E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG116	5.406E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG116M	6.331E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN116	1.465E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN116M	2.322E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC117	1.504E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU117	1.061E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH117	2.975E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD117	8.977E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG117	3.916E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG117M	4.107E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD117	2.527E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD117M	1.549E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN117	1.459E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN117M	1.548E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN117M	2.880E-03	3.139E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU118	5.236E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH118	6.155E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD118	4.984E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG118	6.772E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG118M	3.056E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD118	1.391E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN118	6.456E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN118M	3.554E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH119	3.519E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD119	6.453E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG119	9.079E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD119	2.904E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD119M	3.240E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN119	1.220E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

IN119M	3.357E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN119M	1.819E-02	1.405E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU120	1.309E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH120	8.197E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD120	1.827E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG120	5.307E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD120	2.957E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN120	6.200E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN120M	4.290E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 91

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
RH121	1.095E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD121	1.209E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG121	5.637E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD121	8.678E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN121	5.345E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN121M	1.417E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN121	6.704E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN121M	2.972E-05	2.962E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH122	1.699E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD122	2.833E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG122	5.380E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD122	4.375E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN122	1.500E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN122M	6.840E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB122	6.408E-01	4.236E-11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB122M	9.310E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH123	1.265E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD123	9.777E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG123	2.277E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD123	9.763E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN123	6.224E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN123M	2.964E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN123	2.625E+00	1.608E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN123M	1.915E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

TE123M	8.265E-05	4.871E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD124	1.416E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG124	1.439E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD124	6.084E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN124	1.909E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB124	6.258E-01	2.187E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB124M	5.631E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG125	3.546E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD125	7.365E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN125	8.394E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN125M	6.304E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN125	2.895E+01	4.078E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN125M	4.716E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB125	4.786E+00	4.619E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE125M	2.063E-01	2.634E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD126	2.318E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG126	1.413E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD126	4.011E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN126	3.031E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN126	8.308E-05	8.308E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB126	4.523E+00	2.759E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB126M	1.732E+00	8.482E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD127	3.094E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN127	1.314E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN127M	1.375E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN127	3.015E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN127M	9.631E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 92

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
SB127	1.947E+02	1.430E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE127	4.207E+01	2.315E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE127M	1.591E+00	9.413E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG128	5.632E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD128	9.305E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN128	3.209E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

SN128	2.509E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB128	8.920E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB128M	9.846E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I128	2.211E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD129	5.952E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN129	2.039E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN129	5.015E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN129M	6.425E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB129	1.106E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE129	3.453E+02	4.745E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE129M	2.341E+01	3.578E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I129	1.225E-06	1.258E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD130	5.247E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN130	2.875E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN130	8.669E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB130	7.384E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB130M	3.245E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I130	2.671E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I130M	1.346E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD131	1.359E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN131	1.065E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN131	1.781E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB131	3.837E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE131	1.885E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE131M	4.314E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I131	1.069E+03	4.197E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE131M	3.361E+00	4.895E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD132	1.139E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN132	4.523E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN132	6.866E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB132	3.744E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB132M	2.418E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE132	8.881E+02	3.250E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I132	7.477E+03	2.779E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS132	6.203E-02	3.524E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN133	4.618E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN133	5.032E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB133	4.223E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE133	3.934E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE133M	4.391E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I133	3.923E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I133M	1.800E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE133	7.000E+02	4.945E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

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XE133M     2.775E+01 1.263E-11 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
IN134      3.058E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
                                                                                OUTPUT UNIT =  6                          PAGE   93
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:32:41

    *  PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL
                                                                                                   FISSION PRODUCTS
    POWER= 1.00000E+00 MW,  BURNUP= 1.00000E+00 MWD,  FLUX= 1.00E+00 N/CM**2-SEC

                    9 SUMMARY TABLE:  THERMAL POWER,  WATTS
                              PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL
           0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
SN134      5.685E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SB134      8.742E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SB134M     8.258E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
TE134      3.899E+03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 I134      1.380E+04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 I134M     1.315E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
XE134M     4.973E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CS134      3.635E+01 3.342E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CS134M     2.549E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SN135      9.215E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SB135      5.347E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
TE135      5.251E+03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 I135      6.954E+03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
XE135      5.586E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
XE135M     3.901E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CS135      1.118E-05 1.127E-05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CS135M     5.215E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
BA135M     6.699E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SN136      7.018E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SB136      1.414E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
TE136      2.626E+03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 I136      7.240E+03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 I136M     3.919E+03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CS136      7.816E+01 6.237E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
BA136M     1.143E+01 9.117E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SB137      1.856E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
TE137      1.094E+03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 I137      6.048E+03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
XE137      6.603E+03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CS137      1.015E+01 1.010E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
BA137M     3.433E+01 3.391E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
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SB138	2.983E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE138	2.350E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I138	3.463E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE138	5.857E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS138	1.278E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS138M	1.518E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB139	1.926E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE139	6.781E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I139	1.674E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE139	6.844E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS139	6.793E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA139	3.285E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE140	6.824E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I140	5.833E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE140	3.841E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS140	1.245E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA140	1.574E+03	1.116E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA140	9.510E+03	7.718E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR140	4.128E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE141	4.377E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 94

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
I141	9.352E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE141	2.275E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS141	7.402E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA141	5.537E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA141	3.187E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE141	7.498E+02	1.076E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE142	3.539E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I142	1.844E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE142	6.017E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS142	6.519E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA142	4.494E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA142	1.118E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR142	1.681E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PR142M	1.035E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I143	9.516E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE143	1.525E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS143	2.681E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA143	7.194E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA143	5.955E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE143	2.155E+03	2.215E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR143	9.326E+02	9.795E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I144	1.026E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE144	1.947E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS144	1.038E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA144	3.514E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA144	9.245E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE144	1.360E+02	1.089E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR144	1.521E+03	1.207E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR144M	8.430E-01	6.739E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE145	3.209E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS145	1.981E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA145	3.359E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA145	4.947E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE145	3.053E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR145	1.422E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE146	1.693E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS146	4.178E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA146	7.463E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA146	5.106E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE146	7.118E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR146	4.170E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM146	3.911E-04	3.789E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE147	2.191E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS147	6.040E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA147	3.261E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA147	1.719E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE147	2.628E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR147	1.993E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND147	5.156E+02	1.688E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM147	9.008E+00	9.268E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS148	5.247E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
BA148	4.130E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA148	1.024E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE148	8.763E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR148	2.787E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM148	3.527E+02	5.538E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM148M	7.461E+01	1.611E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA149	7.699E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA149	1.948E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE149	1.212E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR149	9.490E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND149	6.130E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM149	2.774E+02	1.069E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS150	5.472E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA150	4.599E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA150	5.433E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE150	3.253E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR150	1.378E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM150	1.204E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA151	5.816E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE151	1.946E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR151	5.526E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND151	4.977E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM151	2.091E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM151	1.137E-02	1.159E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA152	1.537E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA152	9.372E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE152	3.119E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR152	4.005E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND152	1.292E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM152	4.060E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM152M	7.320E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU152	8.233E-03	8.129E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU152M	1.273E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA153	8.623E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE153	9.738E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR153	9.918E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND153	2.770E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM153	1.129E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

SM153	9.428E+01	7.027E-13	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD153	1.113E-03	8.566E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA154	5.282E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE154	8.936E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR154	3.460E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND154	6.957E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM154	2.098E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM154M	3.444E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU154	1.733E+00	1.699E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE155	1.658E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR155	5.828E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND155	6.195E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM155	9.552E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 96

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
SM155	5.414E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU155	1.051E-01	1.016E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE156	1.332E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR156	1.554E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND156	1.412E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM156	8.139E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM156	1.462E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU156	1.552E+02	2.428E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE157	1.484E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR157	2.220E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND157	7.416E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM157	3.065E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM157	3.279E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU157	1.822E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR158	2.266E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND158	8.863E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM158	1.493E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM158	7.863E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU158	2.544E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR159	8.295E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

ND159	1.454E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM159	2.773E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM159	9.924E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU159	9.727E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD159	3.522E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND160	1.104E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM160	7.284E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM160	3.415E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU160	6.584E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB160	1.691E-01	7.048E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND161	1.239E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM161	8.047E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM161	1.453E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU161	2.647E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD161	1.796E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB161	5.013E-01	5.347E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM162	5.364E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM162	1.688E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU162	1.383E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD162	4.650E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB162	1.264E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB162M	4.273E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM163	3.434E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU163	3.061E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD163	5.219E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB163	3.443E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM164	2.727E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU164	9.874E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD164	1.406E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB164	3.812E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM165	2.704E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
EU165	1.436E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD165	1.080E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

TB165	1.258E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY165	1.487E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY165M	1.103E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY166	9.022E-03	7.257E-11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HO166	4.078E-02	3.969E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SUMTOT	6.748E+05	5.502E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL	6.748E+05	5.502E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 98

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

* PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
H	1.617E-03	1.595E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO	3.939E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI	7.480E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU	5.502E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN	3.259E+01	2.259E-16	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA	2.064E+02	4.072E-15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE	7.637E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS	3.249E+03	1.566E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE	6.717E+03	9.378E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR	1.949E+04	1.201E-18	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR	2.552E+04	1.408E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB	4.998E+04	1.543E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR	4.151E+04	3.224E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y	6.360E+04	5.198E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR	2.991E+04	9.061E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB	6.073E+04	1.397E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO	2.300E+04	1.885E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC	2.951E+04	6.310E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU	6.189E+03	2.704E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH	5.640E+03	4.326E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD	8.058E+02	3.905E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG	1.026E+03	9.876E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD	6.219E+02	4.669E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN	2.484E+03	6.006E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN	5.802E+03	1.663E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

SB	2.299E+04	4.866E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE	2.512E+04	1.184E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I	5.660E+04	4.198E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE	2.793E+04	5.390E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS	5.019E+04	4.414E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA	3.013E+04	4.516E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA	5.213E+04	7.718E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE	1.208E+04	2.165E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR	1.627E+04	1.217E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND	2.187E+03	1.688E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM	1.931E+03	2.593E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM	2.187E+02	1.159E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU	2.216E+02	4.236E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD	6.555E+00	8.566E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB	2.828E+00	7.053E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY	1.688E-01	7.257E-11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HO	4.078E-02	1.659E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SUMTOT	6.748E+05	5.502E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL	6.748E+05	5.502E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

CUMULATIVE TABLE TOTALS

AP+FP	6.751E+05	5.527E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ACT+FP	7.207E+05	5.515E+03	7.252E+00	7.336E+00	7.418E+00	8.601E+00	9.770E+00	1.135E+01	1.225E+01	1.272E+01	1.297E+01
AP+ACT+FP	7.210E+05	5.540E+03	7.252E+00	7.336E+00	7.418E+00	8.601E+00	9.770E+00	1.135E+01	1.225E+01	1.272E+01	1.297E+01

OUTPUT UNIT = 6 PAGE 89

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

(ALPHA,N) NEUTRON SOURCE, NEUTRONS/SEC

BASIS= PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
PU238	4.306E+04	4.447E+04	4.463E+04	4.454E+04	4.445E+04	4.307E+04	4.140E+04	3.826E+04	3.535E+04	3.267E+04	2.976E+04
PU239	8.420E+04	8.595E+04	8.595E+04	8.595E+04	8.595E+04	8.594E+04	8.593E+04	8.590E+04	8.588E+04	8.585E+04	8.582E+04
PU240	4.506E+04	4.506E+04	4.506E+04	4.506E+04	4.506E+04	4.504E+04	4.502E+04	4.497E+04	4.492E+04	4.487E+04	4.482E+04
AM241	2.169E+03	4.802E+03	0.000E+00	2.571E+03	5.110E+03	4.171E+04	7.825E+04	1.285E+05	1.583E+05	1.755E+05	1.860E+05
CM242	3.040E+05	2.099E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CM244	5.599E+02	5.552E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTALS											
TABLE	4.795E+05	3.912E+05	1.757E+05	1.781E+05	1.806E+05	2.158E+05	2.506E+05	2.977E+05	3.245E+05	3.389E+05	3.464E+05
ACTUAL	4.795E+05	3.912E+05	1.757E+05	1.781E+05	1.806E+05	2.158E+05	2.506E+05	2.977E+05	3.245E+05	3.389E+05	3.464E+05

OUTPUT UNIT = 6 PAGE 100

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

SPONTANEOUS FISSION NEUTRON SOURCE, NEUTRONS/SEC

BASIS= PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
U238	1.252E+04	1.252E+04	0.000E+00	2.386E-08	4.772E-08	4.295E-07	9.066E-07	1.861E-06	2.815E-06	3.770E-06	4.896E-06
PU238	7.023E+03	7.253E+03	7.278E+03	7.264E+03	7.249E+03	7.024E+03	6.752E+03	6.239E+03	5.765E+03	5.327E+03	4.853E+03
PU240	2.376E+05	2.376E+05	2.375E+05	2.375E+05	2.375E+05	2.374E+05	2.373E+05	2.371E+05	2.368E+05	2.366E+05	2.363E+05
PU242	7.196E+03	7.197E+03	7.197E+03	7.197E+03	7.197E+03	7.197E+03	7.197E+03	7.196E+03	7.196E+03	7.196E+03	7.196E+03
CM242	1.475E+06	1.018E+06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CM244	6.741E+04	6.685E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTALS											
TABLE	1.807E+06	1.350E+06	2.521E+05	2.520E+05	2.520E+05	2.517E+05	2.513E+05	2.506E+05	2.499E+05	2.492E+05	2.484E+05
ACTUAL	1.807E+06	1.350E+06	2.521E+05	2.520E+05	2.520E+05	2.517E+05	2.513E+05	2.506E+05	2.499E+05	2.492E+05	2.484E+05
OVERALL TOTALS											
TABLE	2.286E+06	1.741E+06	4.277E+05	4.302E+05	4.326E+05	4.675E+05	5.019E+05	5.483E+05	5.744E+05	5.881E+05	5.948E+05
ACTUAL	2.286E+06	1.741E+06	4.277E+05	4.302E+05	4.326E+05	4.675E+05	5.019E+05	5.483E+05	5.744E+05	5.881E+05	5.948E+05

OUTPUT UNIT = 6 PAGE 101

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:32:41

PHOTON SPECTRUM FOR ACTIVATION PRODUCTS

PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

POWER= 1.00 MW, BURNUP= 1. MWD, FLUX= 1.00E+00 N/CM**2-SEC

18 GROUP PHOTON RELEASE RATES, PHOTONS/SECOND

BASIS= PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

EMEAN	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
1.000E-02	6.133E+13	2.049E+12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.500E-02	4.433E+13	7.911E+12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
3.750E-02	5.715E+12	3.754E+11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
5.750E-02	1.272E+13	5.805E+11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
8.500E-02	5.798E+12	3.116E+10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.250E-01	7.698E+12	7.687E+11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.250E-01	3.814E+13	6.154E+11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
3.750E-01	2.144E+13	1.037E+12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
5.750E-01	5.289E+14	2.152E+12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

8.500E-01	7.426E+14	1.591E+14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.250E+00	3.707E+13	1.426E+12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.750E+00	1.067E+14	5.899E+09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.250E+00	1.176E+13	3.842E+08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.750E+00	2.916E+12	1.322E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
3.500E+00	1.401E+11	8.242E-15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
5.000E+00	2.236E+07	2.454E-15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
7.000E+00	5.254E+06	1.592E-16	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
9.500E+00	4.029E+05	1.007E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL	1.627E+15	1.761E+14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MEV/SEC	1.224E+15	1.392E+14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

18 GROUP SPECIFIC ENERGY RELEASE RATES, MEV/WATT-SEC
BASIS= PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

EMEAN	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
1.000E-02	6.133E+05	2.049E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.500E-02	1.108E+06	1.978E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
3.750E-02	2.143E+05	1.408E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
5.750E-02	7.316E+05	3.338E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
8.500E-02	4.928E+05	2.649E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.250E-01	9.622E+05	9.608E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.250E-01	8.582E+06	1.385E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
3.750E-01	8.041E+06	3.891E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
5.750E-01	3.041E+08	1.237E+06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
8.500E-01	6.312E+08	1.353E+08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.250E+00	4.634E+07	1.783E+06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.750E+00	1.867E+08	1.032E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.250E+00	2.646E+07	8.645E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.750E+00	8.019E+06	3.635E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
3.500E+00	4.902E+05	2.885E-20	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
5.000E+00	1.118E+02	1.227E-20	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
7.000E+00	3.678E+01	1.115E-21	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
9.500E+00	3.827E+00	9.565E-23	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL	1.224E+09	1.392E+08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GAM POW	1.962E+02	2.231E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

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                PRINCIPAL PHOTON SOURCES IN GROUP  1,PHOTONS/SEC
                 MEAN ENERGY= 0.010MEV

NUCLIDE
        0.00 Y   0.25 Y   0.50 Y   0.75 Y   1.00 Y   5.00 Y   10.0 Y   20.0 Y   30.0 Y   40.0 Y   51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP  2,PHOTONS/SEC
                 MEAN ENERGY= 0.025MEV

NUCLIDE
        0.00 Y   0.25 Y   0.50 Y   0.75 Y   1.00 Y   5.00 Y   10.0 Y   20.0 Y   30.0 Y   40.0 Y   51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP  3,PHOTONS/SEC
                 MEAN ENERGY= 0.038MEV

NUCLIDE
        0.00 Y   0.25 Y   0.50 Y   0.75 Y   1.00 Y   5.00 Y   10.0 Y   20.0 Y   30.0 Y   40.0 Y   51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP  4,PHOTONS/SEC
                 MEAN ENERGY= 0.058MEV

NUCLIDE
        0.00 Y   0.25 Y   0.50 Y   0.75 Y   1.00 Y   5.00 Y   10.0 Y   20.0 Y   30.0 Y   40.0 Y   51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP  5,PHOTONS/SEC
                 MEAN ENERGY= 0.085MEV

NUCLIDE
        0.00 Y   0.25 Y   0.50 Y   0.75 Y   1.00 Y   5.00 Y   10.0 Y   20.0 Y   30.0 Y   40.0 Y   51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP  6,PHOTONS/SEC
                 MEAN ENERGY= 0.125MEV

NUCLIDE
        0.00 Y   0.25 Y   0.50 Y   0.75 Y   1.00 Y   5.00 Y   10.0 Y   20.0 Y   30.0 Y   40.0 Y   51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP  7,PHOTONS/SEC
                 MEAN ENERGY= 0.225MEV

NUCLIDE
        0.00 Y   0.25 Y   0.50 Y   0.75 Y   1.00 Y   5.00 Y   10.0 Y   20.0 Y   30.0 Y   40.0 Y   51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP  8,PHOTONS/SEC
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                MEAN ENERGY= 0.375MEV

NUCLIDE
        0.00 Y   0.25 Y   0.50 Y   0.75 Y   1.00 Y   5.00 Y   10.0 Y   20.0 Y   30.0 Y   40.0 Y   51.8 Y
                                                          OUTPUT UNIT =  6                          PAGE  103
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:32:41

                PRINCIPAL PHOTON SOURCES IN GROUP  9,PHOTONS/SEC
                 MEAN ENERGY= 0.575MEV

NUCLIDE
        0.00 Y   0.25 Y   0.50 Y   0.75 Y   1.00 Y   5.00 Y   10.0 Y   20.0 Y   30.0 Y   40.0 Y   51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 10,PHOTONS/SEC
                 MEAN ENERGY= 0.850MEV

NUCLIDE
        0.00 Y   0.25 Y   0.50 Y   0.75 Y   1.00 Y   5.00 Y   10.0 Y   20.0 Y   30.0 Y   40.0 Y   51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 11,PHOTONS/SEC
                 MEAN ENERGY= 1.250MEV

NUCLIDE
        0.00 Y   0.25 Y   0.50 Y   0.75 Y   1.00 Y   5.00 Y   10.0 Y   20.0 Y   30.0 Y   40.0 Y   51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 12,PHOTONS/SEC
                 MEAN ENERGY= 1.750MEV

NUCLIDE
        0.00 Y   0.25 Y   0.50 Y   0.75 Y   1.00 Y   5.00 Y   10.0 Y   20.0 Y   30.0 Y   40.0 Y   51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 13,PHOTONS/SEC
                 MEAN ENERGY= 2.250MEV

NUCLIDE
        0.00 Y   0.25 Y   0.50 Y   0.75 Y   1.00 Y   5.00 Y   10.0 Y   20.0 Y   30.0 Y   40.0 Y   51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 14,PHOTONS/SEC
                 MEAN ENERGY= 2.750MEV

NUCLIDE
        0.00 Y   0.25 Y   0.50 Y   0.75 Y   1.00 Y   5.00 Y   10.0 Y   20.0 Y   30.0 Y   40.0 Y   51.8 Y
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```
                    PRINCIPAL PHOTON SOURCES IN GROUP 15,PHOTONS/SEC
                     MEAN ENERGY= 3.500MEV

NUCLIDE
           0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
PB204      8.242E-15 8.242E-15 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00

                    PRINCIPAL PHOTON SOURCES IN GROUP 16,PHOTONS/SEC
                     MEAN ENERGY= 5.000MEV

NUCLIDE
           0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
PB204      2.454E-15 2.454E-15 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
                                                                                OUTPUT UNIT =  6                        PAGE  104
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:32:41

                    PRINCIPAL PHOTON SOURCES IN GROUP 17,PHOTONS/SEC
                     MEAN ENERGY= 7.000MEV

NUCLIDE
           0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                    PRINCIPAL PHOTON SOURCES IN GROUP 18,PHOTONS/SEC
                     MEAN ENERGY= 9.500MEV

NUCLIDE
           0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
PB204      1.007E-17 1.007E-17 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
                                                                                OUTPUT UNIT =  6                        PAGE  105
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:32:41
               PHOTON SPECTRUM FOR ACTINIDES + DAUGHTERS

                                PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL
                                   POWER=   1.00 MW, BURNUP=      1. MWD, FLUX= 1.00E+00 N/CM**2-SEC

                                 18 GROUP PHOTON RELEASE RATES, PHOTONS/SECOND
                                 BASIS=  PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL
 EMEAN
           0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
1.000E-02  3.653E+17 2.197E+12 8.570E+11 8.831E+11 9.041E+11 1.206E+12 1.505E+12 1.911E+12 2.146E+12 2.274E+12 2.345E+12
2.500E-02  1.852E+15 1.607E+10 0.000E+00 2.664E+09 5.139E+09 4.082E+10 7.644E+10 1.255E+11 1.545E+11 1.713E+11 1.815E+11
3.750E-02  1.846E+16 4.491E+09 1.057E+09 1.270E+09 1.471E+09 4.367E+09 7.253E+09 1.121E+10 1.354E+10 1.486E+10 1.564E+10
5.750E-02  7.964E+15 2.381E+11 1.700E+09 4.093E+10 7.732E+10 6.019E+11 1.126E+12 1.847E+12 2.274E+12 2.520E+12 2.670E+12
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8.500E-02	1.997E+17	8.029E+10	2.433E+08	1.359E+09	1.370E+09	1.523E+09	1.675E+09	1.878E+09	1.992E+09	2.053E+09	2.084E+09
1.250E-01	1.585E+17	1.377E+11	4.969E+08	2.432E+09	2.432E+09	2.430E+09	2.425E+09	2.410E+09	2.390E+09	2.367E+09	2.338E+09
2.250E-01	1.102E+17	1.036E+11	7.231E+07	1.515E+09	1.499E+09	1.271E+09	1.040E+09	7.133E+08	5.094E+08	3.824E+08	2.924E+08
3.750E-01	1.098E+16	6.759E+09	2.785E+08	3.648E+08	3.650E+08	3.687E+08	3.732E+08	3.821E+08	3.908E+08	3.995E+08	4.095E+08
5.750E-01	1.711E+15	5.734E+07	1.067E+07	1.137E+07	1.209E+07	2.396E+07	3.575E+07	4.991E+07	5.752E+07	6.167E+07	6.400E+07
8.500E-01	3.236E+15	8.014E+07	2.267E+06	2.474E+06	2.691E+06	6.527E+06	1.032E+07	1.456E+07	1.668E+07	1.777E+07	1.832E+07
1.250E+00	1.920E+14	7.010E+07	2.658E+05	2.663E+05	2.675E+05	3.247E+05	3.801E+05	4.012E+05	3.921E+05	3.802E+05	3.665E+05
1.750E+00	5.940E+11	1.190E+07	1.169E+05	1.183E+05	1.221E+05	3.092E+05	4.908E+05	5.593E+05	5.305E+05	4.942E+05	4.543E+05
2.250E+00	3.971E+05	3.001E+05	6.719E+04	6.723E+04	6.727E+04	6.785E+04	6.839E+04	6.908E+04	6.940E+04	6.951E+04	6.948E+04
2.750E+00	3.973E+05	4.814E+05	3.872E+04	5.218E+04	8.993E+04	1.965E+06	3.786E+06	4.463E+06	4.165E+06	3.797E+06	3.394E+06
3.500E+00	2.055E+05	1.552E+05	3.438E+04	3.440E+04	3.441E+04	3.461E+04	3.480E+04	3.502E+04	3.511E+04	3.513E+04	3.508E+04
5.000E+00	8.780E+04	6.628E+04	1.458E+04	1.458E+04	1.459E+04	1.464E+04	1.469E+04	1.474E+04	1.476E+04	1.475E+04	1.473E+04
7.000E+00	1.007E+04	7.594E+03	1.657E+03	1.657E+03	1.657E+03	1.660E+03	1.662E+03	1.663E+03	1.662E+03	1.660E+03	1.656E+03
9.500E+00	1.160E+03	8.742E+02	1.892E+02	1.892E+02	1.892E+02	1.892E+02	1.892E+02	1.891E+02	1.888E+02	1.884E+02	1.879E+02
TOTAL	8.781E+17	2.785E+12	8.609E+11	9.337E+11	9.937E+11	1.858E+12	2.720E+12	3.900E+12	4.593E+12	4.985E+12	5.217E+12
MEV/SEC	7.453E+16	8.633E+10	8.920E+09	1.221E+10	1.458E+10	4.874E+10	8.282E+10	1.297E+11	1.574E+11	1.732E+11	1.828E+11

18 GROUP SPECIFIC ENERGY RELEASE RATES, MEV/WATT-SEC
BASIS= PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

EMEAN	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
1.000E-02	3.653E+09	2.197E+04	6.570E+03	8.831E+03	9.041E+03	1.206E+04	1.505E+04	1.911E+04	2.146E+04	2.274E+04	2.345E+04
2.500E-02	4.629E+07	4.018E+02	0.000E+00	6.660E+01	1.285E+02	1.021E+03	1.911E+03	3.137E+03	3.863E+03	4.281E+03	4.537E+03
3.750E-02	6.921E+08	1.684E+02	3.963E+01	4.763E+01	5.517E+01	1.638E+02	2.720E+02	4.204E+02	5.076E+02	5.572E+02	5.866E+02
5.750E-02	4.579E+08	1.369E+04	9.774E+01	2.353E+03	4.446E+03	3.461E+04	6.473E+04	1.062E+05	1.307E+05	1.449E+05	1.535E+05
8.500E-02	1.697E+10	6.824E+03	2.068E+01	1.155E+02	1.164E+02	1.295E+02	1.424E+02	1.596E+02	1.693E+02	1.745E+02	1.771E+02
1.250E-01	1.981E+10	1.721E+04	6.212E+01	3.040E+02	3.040E+02	3.037E+02	3.031E+02	3.013E+02	2.988E+02	2.959E+02	2.923E+02
2.250E-01	2.480E+10	2.331E+04	1.627E+01	3.409E+02	3.373E+02	2.859E+02	2.341E+02	1.605E+02	1.146E+02	8.604E+01	6.579E+01
3.750E-01	4.116E+09	2.535E+03	1.044E+02	1.368E+02	1.369E+02	1.383E+02	1.400E+02	1.433E+02	1.466E+02	1.498E+02	1.536E+02
5.750E-01	9.835E+08	3.297E+01	6.137E+00	6.539E+00	6.953E+00	1.378E+01	2.056E+01	2.870E+01	3.307E+01	3.546E+01	3.680E+01
8.500E-01	2.751E+09	6.812E+01	1.927E+00	2.103E+00	2.288E+00	5.548E+00	8.776E+00	1.238E+01	1.418E+01	1.511E+01	1.558E+01
1.250E+00	2.400E+08	8.762E+01	3.322E-01	3.329E-01	3.344E-01	4.059E-01	4.751E-01	5.015E-01	4.902E-01	4.752E-01	4.582E-01
1.750E+00	1.040E+06	2.082E+01	2.045E-01	2.070E-01	2.137E-01	5.410E-01	8.590E-01	9.787E-01	9.283E-01	8.648E-01	7.950E-01
2.250E+00	8.934E-01	6.753E-01	1.512E-01	1.513E-01	1.514E-01	1.527E-01	1.539E-01	1.554E-01	1.562E-01	1.564E-01	1.563E-01
2.750E+00	1.093E+00	1.324E+00	1.065E-01	1.435E-01	2.473E-01	5.404E+00	1.041E+01	1.227E+01	1.145E+01	1.044E+01	9.333E+00
3.500E+00	7.193E-01	5.433E-01	1.203E-01	1.204E-01	1.204E-01	1.211E-01	1.218E-01	1.226E-01	1.229E-01	1.229E-01	1.228E-01
5.000E+00	4.390E-01	3.314E-01	7.289E-02	7.291E-02	7.293E-02	7.320E-02	7.345E-02	7.372E-02	7.380E-02	7.376E-02	7.363E-02
7.000E+00	7.046E-02	5.316E-02	1.160E-02	1.160E-02	1.160E-02	1.162E-02	1.163E-02	1.164E-02	1.164E-02	1.162E-02	1.159E-02
9.500E+00	1.102E-02	8.305E-03	1.797E-03	1.797E-03	1.797E-03	1.798E-03	1.798E-03	1.796E-03	1.794E-03	1.790E-03	1.785E-03
TOTAL	7.453E+10	8.633E+04	8.920E+03	1.221E+04	1.458E+04	4.874E+04	8.282E+04	1.297E+05	1.574E+05	1.732E+05	1.828E+05

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GAM POW   1.195E+04 1.384E-02 1.430E-03 1.957E-03 2.336E-03 7.812E-03 1.328E-02 2.079E-02 2.522E-02 2.777E-02 2.931E-02
                                                                                OUTPUT UNIT =  6                    PAGE  106
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:32:41

                    PRINCIPAL PHOTON SOURCES IN GROUP  1,PHOTONS/SEC
                     MEAN ENERGY= 0.010MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                    PRINCIPAL PHOTON SOURCES IN GROUP  2,PHOTONS/SEC
                     MEAN ENERGY= 0.025MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                    PRINCIPAL PHOTON SOURCES IN GROUP  3,PHOTONS/SEC
                     MEAN ENERGY= 0.038MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                    PRINCIPAL PHOTON SOURCES IN GROUP  4,PHOTONS/SEC
                     MEAN ENERGY= 0.058MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                    PRINCIPAL PHOTON SOURCES IN GROUP  5,PHOTONS/SEC
                     MEAN ENERGY= 0.085MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                    PRINCIPAL PHOTON SOURCES IN GROUP  6,PHOTONS/SEC
                     MEAN ENERGY= 0.125MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                    PRINCIPAL PHOTON SOURCES IN GROUP  7,PHOTONS/SEC
                     MEAN ENERGY= 0.225MEV
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NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                  PRINCIPAL PHOTON SOURCES IN GROUP  8,PHOTONS/SEC
                   MEAN ENERGY= 0.375MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
PU239     2.728E+08 2.785E+08 2.785E+08 2.785E+08 2.785E+08 2.784E+08 2.784E+08 2.783E+08 2.782E+08 2.782E+08 2.781E+08
                                                                                OUTPUT UNIT =  6                          PAGE  107
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:32:41

                  PRINCIPAL PHOTON SOURCES IN GROUP  9,PHOTONS/SEC
                   MEAN ENERGY= 0.575MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                  PRINCIPAL PHOTON SOURCES IN GROUP 10,PHOTONS/SEC
                   MEAN ENERGY= 0.850MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                  PRINCIPAL PHOTON SOURCES IN GROUP 11,PHOTONS/SEC
                   MEAN ENERGY= 1.250MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                  PRINCIPAL PHOTON SOURCES IN GROUP 12,PHOTONS/SEC
                   MEAN ENERGY= 1.750MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                  PRINCIPAL PHOTON SOURCES IN GROUP 13,PHOTONS/SEC
                   MEAN ENERGY= 2.250MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
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                    PRINCIPAL PHOTON SOURCES IN GROUP 14,PHOTONS/SEC
                     MEAN ENERGY= 2.750MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                    PRINCIPAL PHOTON SOURCES IN GROUP 15,PHOTONS/SEC
                     MEAN ENERGY= 3.500MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                    PRINCIPAL PHOTON SOURCES IN GROUP 16,PHOTONS/SEC
                     MEAN ENERGY= 5.000MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
                                                                                OUTPUT UNIT =  6                          PAGE  108
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:32:41

                    PRINCIPAL PHOTON SOURCES IN GROUP 17,PHOTONS/SEC
                     MEAN ENERGY= 7.000MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                    PRINCIPAL PHOTON SOURCES IN GROUP 18,PHOTONS/SEC
                     MEAN ENERGY= 9.500MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
                                                                                OUTPUT UNIT =  6                          PAGE  109
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:32:41
              PHOTON SPECTRUM FOR FISSION PRODUCTS

                              PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL
                                 POWER=   1.00 MW, BURNUP=      1. MWD, FLUX= 1.00E+00 N/CM**2-SEC

                               18 GROUP PHOTON RELEASE RATES, PHOTONS/SECOND
                               BASIS=  PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL
 EMEAN
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
1.000E-02 1.053E+17 1.098E+15 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
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2.500E-02	5.168E+16	4.964E+14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
3.750E-02	6.104E+16	1.306E+15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
5.750E-02	2.249E+16	2.112E+14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
8.500E-02	3.017E+16	2.711E+14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.250E-01	6.236E+16	2.302E+15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.250E-01	1.806E+17	1.598E+14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
3.750E-01	1.415E+17	1.562E+14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
5.750E-01	2.757E+17	3.842E+15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
8.500E-01	3.110E+17	1.568E+16	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.250E+00	1.824E+17	9.656E+13	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.750E+00	6.627E+16	1.558E+14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.250E+00	3.555E+16	5.063E+13	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.750E+00	1.527E+16	5.933E+12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
3.500E+00	8.141E+15	8.452E+10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
5.000E+00	4.115E+15	4.892E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
7.000E+00	3.383E+13	3.174E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
9.500E+00	3.340E+09	2.007E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL	1.554E+18	2.583E+16	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MEV/SEC	1.048E+18	1.655E+16	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

18 GROUP SPECIFIC ENERGY RELEASE RATES, MEV/WATT-SEC
BASIS= PLUTONIUM @ 12% PU-240 FROM 1 MTU FUEL

EMEAN	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
1.000E-02	1.053E+09	1.098E+07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.500E-02	1.292E+09	1.241E+07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
3.750E-02	2.289E+09	4.898E+07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
5.750E-02	1.293E+09	1.215E+07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
8.500E-02	2.565E+09	2.304E+07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.250E-01	7.795E+09	2.878E+08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.250E-01	4.064E+10	3.595E+07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
3.750E-01	5.306E+10	5.857E+07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
5.750E-01	1.585E+11	2.209E+09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
8.500E-01	2.644E+11	1.332E+10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.250E+00	2.280E+11	1.207E+08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.750E+00	1.160E+11	2.726E+08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.250E+00	7.999E+10	1.139E+08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.750E+00	4.199E+10	1.632E+07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
3.500E+00	2.849E+10	2.958E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
5.000E+00	2.057E+10	2.446E-11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
7.000E+00	2.368E+08	2.222E-12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

```
9.500E+00  3.173E+04 1.907E-13 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00

  TOTAL    1.048E+12 1.655E+10 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00

 GAM POW   1.680E+05 2.653E+03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
                                                                                OUTPUT UNIT =  6                          PAGE  110
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:32:41

                    PRINCIPAL PHOTON SOURCES IN GROUP  1,PHOTONS/SEC
                     MEAN ENERGY= 0.010MEV

NUCLIDE
           0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                    PRINCIPAL PHOTON SOURCES IN GROUP  2,PHOTONS/SEC
                     MEAN ENERGY= 0.025MEV

NUCLIDE
           0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                    PRINCIPAL PHOTON SOURCES IN GROUP  3,PHOTONS/SEC
                     MEAN ENERGY= 0.038MEV

NUCLIDE
           0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                    PRINCIPAL PHOTON SOURCES IN GROUP  4,PHOTONS/SEC
                     MEAN ENERGY= 0.058MEV

NUCLIDE
           0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                    PRINCIPAL PHOTON SOURCES IN GROUP  5,PHOTONS/SEC
                     MEAN ENERGY= 0.085MEV

NUCLIDE
           0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                    PRINCIPAL PHOTON SOURCES IN GROUP  6,PHOTONS/SEC
                     MEAN ENERGY= 0.125MEV

NUCLIDE
           0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
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```
                PRINCIPAL PHOTON SOURCES IN GROUP  7,PHOTONS/SEC
                 MEAN ENERGY= 0.225MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP  8,PHOTONS/SEC
                 MEAN ENERGY= 0.375MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
                                                                          OUTPUT UNIT =  6                          PAGE  111
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:32:41

                PRINCIPAL PHOTON SOURCES IN GROUP  9,PHOTONS/SEC
                 MEAN ENERGY= 0.575MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 10,PHOTONS/SEC
                 MEAN ENERGY= 0.850MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 11,PHOTONS/SEC
                 MEAN ENERGY= 1.250MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 12,PHOTONS/SEC
                 MEAN ENERGY= 1.750MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 13,PHOTONS/SEC
                 MEAN ENERGY= 2.250MEV

NUCLIDE
```

```
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                  PRINCIPAL PHOTON SOURCES IN GROUP 14,PHOTONS/SEC
                   MEAN ENERGY= 2.750MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                  PRINCIPAL PHOTON SOURCES IN GROUP 15,PHOTONS/SEC
                   MEAN ENERGY= 3.500MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                  PRINCIPAL PHOTON SOURCES IN GROUP 16,PHOTONS/SEC
                   MEAN ENERGY= 5.000MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
                                                                          OUTPUT UNIT =  6                          PAGE  112
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:32:41

                  PRINCIPAL PHOTON SOURCES IN GROUP 17,PHOTONS/SEC
                   MEAN ENERGY= 7.000MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                  PRINCIPAL PHOTON SOURCES IN GROUP 18,PHOTONS/SEC
                   MEAN ENERGY= 9.500MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
RB 94     3.340E+09 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
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Plutonium, Weapons Grade

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*****************************************************
*                                                   *
*   OOOOO  RRRR   IIIII   GGGGG   EEEEE  N    N   22222   *
*   O   O  R   R    I    G       E      NN   N  22   22  *
*   O   O  RRRR     I    G   GG  EEEE   N NN N      22   *
*   O   O  R   R    I    G    G  E      N   NN    22     *
*   OOOOO  R   R  IIIII   GGGGGG  EEEEE  N    N  2222222  *
*                                                   *
*                 Version 2.2 (5-4-2002)            *
*                                                   *
*                                                   *
*                 OOOOO    AA    K   K              *
*                 O   O   A A    K  K               *
*                 O   O   AAAA   KKK                *
*                 O   O   A A    K  K               *
*                 OOOOO   A A    K   K              *
*                                                   *
*          RRRR   III   DDDDD    GGGGG    EEEEE     *
*          R   R   I    D    D   G        E         *
*          RRRR    I    D    D   G    GG  EEEE      *
*          R   R   I    D    D   G     G  E         *
*          R   R  III   DDDDD    GGGGGG   EEEEE     *
*                                                   *
*   N    N   AA   TTTTT  III  OOOOO  N    N   AA   L      *
*   NN   N  A A    T     I   O   O  NN   N  A A  L      *
*   N NN N  AAAA   T     I   O   O  N NN N  AAAA  L      *
*   N   NN  A A    T     I   O   O  N   NN  A A  L      *
*   N    N  A A    T    III  OOOOO  N    N  A A  LLLLL  *
*                                                   *
* L     AA  BBBB  OOOO RRRR    AA  TTTTT OOOO RRRR  Y   Y *
* L    A A B   B O  O R   R  A A   T   O  O R   R  Y Y  *
* L    AAAA BBBB  O  O RRRR   AAAA   T   O  O RRRR    Y   *
* L    A A B   B O  O R   R  A A   T   O  O R   R   Y   *
* LLLL A A BBBB  OOOO R   R  A A   T   OOOO R   R   Y   *
*                                                   *
*                                                   *
*          RSIC CODE PACKAGE NUMBER (CCC-371)       *
*                                                   *
*  ORIGEN2 VERSION 2.2 (5-4-2002) UPDATES THE FOLLOWING:  *
```

```
*                                                        *
*          CCC-371(A) - MAINFRAMES                       *
*          CCC-371(E) - ALL PCS WITH WINDOWS             *
*                                                        *
*     ORIGEN2 RUN  DATE: 07/27/10    TIME 06:33:04       *
*                                                        *
*                                                        *
**********************************************************
                                                  OUTPUT UNIT =  6                    PAGE    1
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:04

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***************************** ORIGEN2:  A REVISED AND UPDATED VERSION OF THE ORIGEN COMPUTER CODE ******************************
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INTRODUCTION
   THIS TEXT IS INTENDED TO BE A BRIEF OUTLINE OF THE ORIGEN2 COMPUTER CODE, WHICH IS A REVISED AND UPDATED VERSION OF THE
   ORIGEN DOCUMENTED IN REPORT ORNL-4628 (MAY 1973).  INCLUDED HERE ARE A BRIEF DESCRIPTION OF THE FUNCTIONS OF ORIGEN2, A
   LISTING OF THE MAJOR DATA SOURCES, A LISTING OF THE PUBLISHED DOCUMENTATION CONCERNING ORIGEN2, AND AN OUTLINE OF THE ORIGEN2
   OUTPUT ORGANIZATION.  ORIGEN2 IS AVAILABLE FROM THE ORNL RADIATION SHIELDING INFORMATION CENTER (RSIC) AT THE FOLLOWING
   ADDRESS:
                          CODES COORDINATOR
                          RADIATION SHIELDING INFORMATION CENTER
                          BLDG. 6025
                          OAK RIDGE NATIONAL LABORATORY
                          OAK RIDGE, TENNESSEE  37830
                          PHONE: (615) 574-6176
   QUESTIONS CONCERNING ORIGEN2 SHOULD BE ADDRESSED TO RSIC.
DESCRIPTION
   ORIGEN2 IS A REVISION AND UPDATE OF THE ORIGEN COMPUTER CODE. SPECIFICALLY, THE INPUT, OUTPUT, CONTROL, AND DATA BASE ASPECTS
    OF ORIGEN HAVE BEEN SIGNIFICANTLY REVISED AND UPDATED TO REFLECT CURRENT INFORMATION AND NEEDS.  IT SHOULD BE NOTED THAT THE
   MATHEMATICAL METHODS USED TO SOLVE THE NUCLIDE BUILDUP, DEPLETION, AND DECAY EQUATIONS ARE ESSENTIALLY UNCHANGED FROM THAT IN
   ORIGEN.  ORIGEN2 IS A COMPUTER CODE DESIGNED TO CALCULATE THE COMPOSITION AND CHARACTERISTICS OF NUCLEAR MATERIALS AS A
   FUNCTION OF DECAY TIME AND THE CHANGES THE MATERIALS UNDERGO DURING VARIOUS FUEL CYCLE OPERATIONS.  INPUT AND OUTPUT FEATURES
   HAVE BEEN DESIGNED TO FACILITATE FLEXIBILITY IN THE TYPE OF CASES THAT CAN BE CONSIDERED AND IN CONTROLLING THE DETAIL OF THE
   OUTPUT.  FOR FURTHER INFORMATION, THE USER IS REFERRED TO THE DOCUMENTATION LISTED BELOW.
MAJOR DATA SOURCES
   VIRTUALLY ALL ASPECTS OF THE DATA INPUT TO ORIGEN2 HAVE BEEN UPDATED OR REVISED TO REFLECT CURRENT INFORMATION.  THE
   PRINCIPAL SOURCES OF CROSS SECTION DATA WERE THE ENDF/B-IV, ENDF/B-V, AND LENDL COMPILATIONS.  DECAY AND PHOTON INFORMATION
   WERE PRIMARILY BASED ON THE EVALUATED NUCLEAR STRUCTURE DATA FILE (ENSDF) AT ORNL AND ENDF/B-IV.  DATA CONCERNING REACTOR
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   AND FUEL CHARACTERISTICS WERE OBTAINED FROM REFERENCE SAFETY ANALYSIS REPORTS AND, WHERE POSSIBLE, THE COMMERCIAL REACTOR
   VENDORS.
DOCUMENTATION
   THE FOLLOWING ITEMS CONSTITUTE THE ORIGEN2 DOCUMENTATION PUBLISHED AS OF THE DATE OF THIS CODE PACKAGE:
        A.G. CROFF, "ORIGEN2 - A REVISED AND UPDATED VERSION OF THE OAK RIDGE ISOTOPE GENERATION AND DEPLETION CODE", ORNL-5621
        (JULY 1980).
        A.G. CROFF, "A USER'S MANUAL FOR THE ORIGEN2 COMPUTER CODE",  ORNL/TM-7175 (JULY 1980).
        A.G. CROFF, M.A. BJERKE, G.W.MORRISON, AND L.M. PETRIE, "REVISED URANIUM-PLUTONIUM CYCLE PWR AND BWR MODELS FOR THE
        ORIGEN COMPUTER CODE", ORNL/TM-6051 (SEPTEMBER 1978).
        A.G. CROFF AND M.A. BJERKE, "ALTERNATIVE FUEL CYCLE PWR MODELS FOR THE ORIGEN COMPUTER CODE", ORNL/TM-7005 (FEB 1980).
        A.G. CROFF, R.L. HAESE, AND N.B. GOVE, "UPDATED DECAY AND PHOTON LIBRARIES FOR THE ORIGEN CODE", ORNL/TM-6055 (FEB 1979)
        A.G. CROFF, "ORIGEN2: A REVISED AND UPDATED VERSION OF ORIGEN", TRANS. AM. NUCL. SOC., VOL. 34, P. 349-50 (JUNE 1980).
                                                                                  OUTPUT UNIT =  6                    PAGE    2
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:04

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***************************** ORIGEN2:  A REVISED AND UPDATED VERSION OF THE ORIGEN COMPUTER CODE ******************************
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ORGANIZATION OF ORIGEN2 OUTPUT
   PAST EXPERIENCE HAS INDICATED THAT MANY USERS ENCOUNTER CONSIDERABLE DIFFICULTY IN FINDING THE DESIRED INFORMATION IN A
   ORIGEN2 OUT PUT WHICH IS SOMETIMES RATHER MASSIVE.  THIS SECTION IS INTENDED AS A BRIEF OUTLINE OF THE ORGANIZATION OF
   ORIGEN2 OUTPUT.  FOR DETAILS REFER TO THE USER'S MANUAL (ORNL/TM-7175, SECT. 8.2).  THE ORIGEN2 OUTPUT IS EXTREMELY
   HIERARCHICAL, AND IS ORGANIZED AS FOLLOWS:

        CARD INPUT ECHO
        MISCELLANEOUS INPUT DATA (NEUTRON YIELDS, REPROCESSING LOSSES,ELEMENT CHEMICAL TOXICITIES
        LISTING OF ORIGEN2 COMMANDS CURRENTLY BEING EXECUTED
        LISTING OF ORIGEN2 DATA LIBRARIES (IF SPECIFIED)
          DECAY LIBRARY
            ACTIVATION PRODUCTS
            ACTINIDES
            FISSION PRODUCTS
          CROSS SECTION/FISSION PRODUCT YIELD LIBRARY
            ACTIVATION PRODUCTS, ACTINIDES, AND FISSION PRODUCTS
          PHOTON LIBRARY
            ACTIVATION PRODUCTS, ACTINIDES, AND FISSION PRODUCTS
        OUTPUT 1
          REACTIVITY AND BURNUP DATA
          ACTIVATION PRODUCT TABLES
            GRAM TABLES (NUCLIDE, ELEMENT, NUCLIDE SUMMARY, ELEMENT SUMMARY)
```

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    CURIE TABLES (NUCLIDE, ELEMENT, NUCLIDE SUMMARY, ELEMENT SUMMARY)
    ETC. (DEPENDING ON THE OUTPUT OPTIONS SPECIFIED, MANY OF THESE TABLES MAY BE OMITTED
      .
      .
  ACTINIDE TABLES
    SAME SUBHEADINGS POSSIBLE AS UNDER ACTIVATION PRODUCT TABLES
  FISSION PRODUCT TABLES
    SAME SUBHEADINGS POSSIBLE AS UNDER ACTIVATION PRODUCT TABLES
  NEUTRON PRODUCTION RATE TABLES: (ALPHA,N) AND SPONTANEOUS FISSION
  PHOTON TABLES
    ACTIVATION PRODUCTS (SUMMATION AND PRINCIPAL CONTRIBUTORS)
    ACTINIDES (SUMMATION AND PRINCIPAL CONTRIBUTORS)
    FISSION PRODUCTS (SUMMATION AND PRINCIPAL CONTRIBUTORS)
OUTPUT 2
  SAME GENERAL CONTENT AND ORDER AS OUTPUT 1
  .
  .
  .
OUTPUT N
  SAME GENERAL CONTENT AND ORDER AS OUTPUT 1
TABLE OF CONTENTS (UNIT 12) FOR THE ABOVE (UNIT 6) OUTPUT
VARIABLE CROSS SECTION INFORMATION OUTPUT (UNIT 16)
DEBUGGING AND OTHER INTERNAL INFORMATION OUTPUT (UNIT 15)

THE SCENARIO LISTED ABOVE CONSTITUTES A TYPICAL ORIGEN2 OUTPUT FOR MANY CASES.  ONE POSSIBLE MODIFICATION IS THE USE OF AN
STP COMMAND TO EXECUTE AN ADDITIONAL SET OF INSTRUCTIONS AFTER THE FIRST SET HAS BEEN EXECUTED.  IF THIS IS DONE, THE OUTPUT
WILL BEGIN WITH "MISCELLANEOUS INPUT DATA" IF NSTP=1, "ORIGEN2COMMANDS CURRENTLY BEING EXECUTED" IF NSTP=2, OR "OUTPUT 1"
FOR NSTP=3.  ANOTHER OFTEN-USED OPTION IS TO EMPLOY BOTH THE PRIMARY (UNIT 6) AND ALTERNATE (UNIT 11) OUTPUT UNITS.  IF BOTH
ARE ROUTED TO PAPER, THE TABLE OF CONTENTS FOR UNIT 11, WHICH IS ON UNIT 13, WILL IMMEDIATELY FOLLOW THE DEBUGGING AND
INTERNAL INFORMATION (UNIT 15) OUTPUT.  THE "OUTPUT N" TABLES FOR UNIT 11 WILL BE PRINTED FOLLOWING THE TABLE OF CONTENTS.
                                                                                                                    PAGE    3

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:04
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                    CARD IMAGE
UNIT    UNIT     NUMBER
   5      50        1      92 1 0.0
   5      50        2      94 1 1.0
   5      50        3      -1
   5      50        4      -1
   5      50        5      -1
   5      50        6      TIT     PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL
   5      50        7      RDA
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5    50    8    RDA    READ DATA LIBRARIES
5    50    9    RDA
5    50   10    LIP    0 0 0
5    50   11    LIB    0 1 2 3 0 0 0 9 3 0 0 0
5    50   12    PHO    101 102 103 10
5    50   13    RDA
5    50   14    RDA    INPUT PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL
5    50   15    RDA
5    50   16    BAS    PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL
5    50   17    INP   -1  1 -1 -1  1  1
5    50   18    MOV   -1  1  0  1
5    50   19    RDA
5    50   20    RDA    DECAY PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL
5    50   21    RDA
5    50   22    DEC    0.250    1  2  5  2
5    50   23    DEC    0.500    2  3  5  0
5    50   24    PRO             3  3 -1  1
5    50   25    DEC    0.750    3  4  5  0
5    50   26    DEC    1.000    4  5  5  0
5    50   27    DEC    5.000    5  6  5  0
5    50   28    DEC    10.00    6  7  5  0
5    50   29    DEC    20.00    7  8  5  0
5    50   30    DEC    30.00    8  9  5  0
5    50   31    DEC    40.00    9 10  5  0
5    50   32    DEC    51.80   10 11  5  0
5    50   33    RDA
5    50   34    RDA    GENERATE OUTPUT
5    50   35    RDA
5    50   36    CUT    5 1.0E-10  7 1.0E-10  9 1.0E-10  23 1.0E-10  27 1.0  -1
5    50   37    OPTL   8 8 8 8 7  8 7 8 7 8  8 8 8 8 8  8 8 8 8 8  8 8 8 8
5    50   38    OPTA   8 8 8 8 7  8 7 8 7 8  8 8 8 8 8  8 8 8 8 8  8 8 8 8
5    50   39    OPTF   8 8 8 8 7  8 7 8 7 8  8 8 8 8 8  8 8 8 8 8  8 8 8 8
5    50   40    HED     1  0.00 Y
5    50   41    HED     2  0.25 Y
5    50   42    HED     3  0.50 Y
5    50   43    HED     4  0.75 Y
5    50   44    HED     5  1.00 Y
5    50   45    HED     6  5.00 Y
5    50   46    HED     7  10.0 Y
5    50   47    HED     8  20.0 Y
5    50   48    HED     9  30.0 Y
5    50   49    HED    10  40.0 Y
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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:04
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE   CARD                                    CARD IMAGE
UNIT    UNIT    NUMBER
   5      50       50      HED     11  51.8 Y
   5      50       51      OUT     11  1 -1  0
   5      50       52      END
   5      50       53      1   10010 3.836E+00 0 0.00
   5      50       54      1   10020 1.560E-03 0 0.00
   5      50       55      1   10030 1.546E-05 0 0.00
   5      50       56      1   10040 1.944E-17 0 0.00
   5      50       57      1   20030 7.433E-08 0 0.00
   5      50       58      1   20040 1.237E-02 0 0.00
   5      50       59      1   20060 5.174E-11 0 0.00
   5      50       60      1   30060 3.608E-04 0 0.00
   5      50       61      1   30070 1.710E-02 0 0.00
   5      50       62      1   30080 1.320E-14 0 0.00
   5      50       63      1   40080 2.946E-16 0 0.00
   5      50       64      1   40090 9.999E+00 0 0.00
   5      50       65      1   40100 2.099E-05 0 0.00
   5      50       66      1   50100 2.865E-02 0 0.00
   5      50       67      1   50110 2.362E-01 0 0.00
   5      50       68      1   50120 7.083E-16 0 0.00
   5      50       69      1   60120 5.633E+02 0 0.00
   5      50       70      1   60130 6.850E+00 0 0.00
   5      50       71      1   60140 2.739E-02 0 0.00
   5      50       72      1   60150 1.186E-16 0 0.00
   5      50       73      1   70140 8.052E+01 0 0.00
   5      50       74      1   70150 3.180E-01 0 0.00
   5      50       75      1   70160 1.339E-15 0 0.00
   5      50       76      1   90200 6.295E-13 0 0.00
   5      50       77      1  100210 1.276E-05 0 0.00
   5      50       78      1  100220 1.917E-05 0 0.00
   5      50       79      1  100230 3.020E-11 0 0.00
   5      50       80      1  110230 1.468E+00 0 0.00
   5      50       81      1  110240 3.933E-06 0 0.00
   5      50       82      1  110241 2.921E-13 0 0.00
   5      50       83      1  110250 2.491E-11 0 0.00
   5      50       84      1  120240 2.063E+01 0 0.00
   5      50       85      1  120250 2.721E+00 0 0.00
   5      50       86      1  120260 3.115E+00 0 0.00
   5      50       87      1  120270 1.109E-07 0 0.00
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  5      50        88      1  130270 8.054E+02 0 0.00
  5      50        89      1  130280 6.477E-07 0 0.00
  5      50        90      1  130290 5.155E-10 0 0.00
  5      50        91      1  130300 4.872E-15 0 0.00
  5      50        92      1  140280 1.207E+02 0 0.00
  5      50        93      1  140290 6.331E+00 0 0.00
  5      50        94      1  140300 4.346E+00 0 0.00
  5      50        95      1  140310 1.199E-07 0 0.00
  5      50        96      1  140320 8.569E-12 0 0.00
  5      50        97      1  150310 7.758E-05 0 0.00
  5      50        98      1  150320 3.224E-10 0 0.00
  5      50        99      1  200450 1.042E-08 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:04
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE     CARD                                    CARD IMAGE
UNIT    UNIT      NUMBER
  5      50        100      1  210460 1.123E-06 0 0.00
  5      50        101      1  210470 1.316E-07 0 0.00
  5      50        102      1  210480 7.050E-09 0 0.00
  5      50        103      1  210490 1.257E-10 0 0.00
  5      50        104      1  210500 7.860E-14 0 0.00
  5      50        105      1  220460 2.906E-01 0 0.00
  5      50        106      1  220470 2.682E-01 0 0.00
  5      50        107      1  220480 2.707E+00 0 0.00
  5      50        108      1  220490 2.057E-01 0 0.00
  5      50        109      1  220500 1.992E-01 0 0.00
  5      50        110      1  220510 2.456E-10 0 0.00
  5      50        111      1  230500 8.964E-03 0 0.00
  5      50        112      1  230510 3.668E+00 0 0.00
  5      50        113      1  230520 1.006E-07 0 0.00
  5      50        114      1  230530 9.900E-12 0 0.00
  5      50        115      1  230540 5.801E-14 0 0.00
  5      50        116      1  240500 5.770E+00 0 0.00
  5      50        117      1  240510 4.443E-03 0 0.00
  5      50        118      1  240520 1.158E+02 0 0.00
  5      50        119      1  240530 1.342E+01 0 0.00
  5      50        120      1  240540 3.424E+00 0 0.00
  5      50        121      1  240550 6.827E-09 0 0.00
  5      50        122      1  250540 5.662E-04 0 0.00
  5      50        123      1  250550 2.860E+01 0 0.00
  5      50        124      1  250560 1.052E-04 0 0.00
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  5      50        125      1  250570 2.991E-11 0 0.00
  5      50        126      1  250580 6.817E-14 0 0.00
  5      50        127      1  260540 2.518E+01 0 0.00
  5      50        128      1  260550 1.981E-02 0 0.00
  5      50        129      1  260560 4.126E+02 0 0.00
  5      50        130      1  260570 1.001E+01 0 0.00
  5      50        131      1  260580 1.355E+00 0 0.00
  5      50        132      1  260590 1.208E-04 0 0.00
  5      50        133      1  270580 1.500E-03 0 0.00
  5      50        134      1  270590 7.276E-01 0 0.00
  5      50        135      1  270600 7.043E-03 0 0.00
  5      50        136      1  270601 3.965E-07 0 0.00
  5      50        137      1  270610 5.228E-09 0 0.00
  5      50        138      1  270620 2.823E-11 0 0.00
  5      50        139      1  280580 9.450E+01 0 0.00
  5      50        140      1  280590 9.690E-02 0 0.00
  5      50        141      1  280600 3.740E+01 0 0.00
  5      50        142      1  280610 1.662E+00 0 0.00
  5      50        143      1  280620 5.304E+00 0 0.00
  5      50        144      1  280630 1.500E-02 0 0.00
  5      50        145      1  280640 1.417E+00 0 0.00
  5      50        146      1  280650 4.903E-07 0 0.00
  5      50        147      1  280660 5.510E-11 0 0.00
  5      50        148      1  290630 5.387E+01 0 0.00
  5      50        149      1  290640 3.047E-04 0 0.00
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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:04
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE   CARD                                CARD IMAGE
UNIT    UNIT    NUMBER
  5      50        150      1  290650 2.475E+01 0 0.00
  5      50        151      1  290660 4.533E-07 0 0.00
  5      50        152      1  290670 3.204E-10 0 0.00
  5      50        153      1  300640 1.505E-02 0 0.00
  5      50        154      1  300650 1.033E-06 0 0.00
  5      50        155      1  300660 9.059E-03 0 0.00
  5      50        156      1  380870 6.002E-05 0 0.00
  5      50        157      1  380880 5.500E-03 0 0.00
  5      50        158      1  380890 2.089E-04 0 0.00
  5      50        159      1  380900 2.079E-08 0 0.00
  5      50        160      1  380910 4.605E-07 0 0.00
  5      50        161      1  380930 2.139E-11 0 0.00
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5     50     162     1  390890 2.093E-04 0 0.00
5     50     163     1  390891 1.937E-14 0 0.00
5     50     164     1  390900 5.847E-04 0 0.00
5     50     165     1  390910 5.922E-04 0 0.00
5     50     166     1  390920 1.952E-06 0 0.00
5     50     167     1  390930 1.728E-09 0 0.00
5     50     168     1  390940 1.140E-08 0 0.00
5     50     169     1  390960 9.013E-12 0 0.00
5     50     170     1  400890 3.410E-10 0 0.00
5     50     171     1  400900 3.660E+04 0 0.00
5     50     172     1  400910 8.046E+03 0 0.00
5     50     173     1  400920 1.243E+04 0 0.00
5     50     174     1  400930 9.131E-01 0 0.00
5     50     175     1  400940 1.292E+04 0 0.00
5     50     176     1  400950 1.640E-01 0 0.00
5     50     177     1  400960 2.122E+03 0 0.00
5     50     178     1  400970 5.795E-03 0 0.00
5     50     179     1  410920 2.129E-07 0 0.00
5     50     180     1  410930 4.193E-09 0 0.00
5     50     181     1  410931 6.388E-08 0 0.00
5     50     182     1  410940 1.302E-07 0 0.00
5     50     183     1  410950 6.009E-02 0 0.00
5     50     184     1  410951 6.603E-05 0 0.00
5     50     185     1  410960 1.103E-06 0 0.00
5     50     186     1  410970 4.120E-04 0 0.00
5     50     187     1  410971 5.410E-06 0 0.00
5     50     188     1  410980 1.557E-15 0 0.00
5     50     189     1  420920 5.205E-01 0 0.00
5     50     190     1  420930 1.372E-05 0 0.00
5     50     191     1  420931 1.799E-09 0 0.00
5     50     192     1  420940 3.341E-01 0 0.00
5     50     193     1  420950 6.386E-01 0 0.00
5     50     194     1  420960 6.163E-01 0 0.00
5     50     195     1  420970 9.322E-01 0 0.00
5     50     196     1  420980 9.032E-01 0 0.00
5     50     197     1  420990 1.291E-05 0 0.00
5     50     198     1  421000 3.669E-01 0 0.00
5     50     199     1  421010 1.211E-08 0 0.00
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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:04
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE     CARD                                CARD IMAGE
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UNIT	UNIT	NUMBER					
5	50	200	1	430990	3.950E-05	0	0.00
5	50	201	1	431000	1.266E-12	0	0.00
5	50	202	1	431010	1.176E-08	0	0.00
5	50	203	1	441010	8.424E-05	0	0.00
5	50	204	1	471080	1.122E-13	0	0.00
5	50	205	1	471081	1.656E-10	0	0.00
5	50	206	1	471091	8.694E-13	0	0.00
5	50	207	1	471100	2.192E-14	0	0.00
5	50	208	1	471101	9.806E-11	0	0.00
5	50	209	1	481060	3.511E-03	0	0.00
5	50	210	1	481070	1.913E-09	0	0.00
5	50	211	1	481080	2.448E-03	0	0.00
5	50	212	1	481090	8.801E-07	0	0.00
5	50	213	1	481100	3.492E-02	0	0.00
5	50	214	1	481110	3.613E-02	0	0.00
5	50	215	1	481111	4.410E-10	0	0.00
5	50	216	1	481120	6.892E-02	0	0.00
5	50	217	1	481130	1.301E-05	0	0.00
5	50	218	1	481140	1.187E-01	0	0.00
5	50	219	1	481150	3.737E-06	0	0.00
5	50	220	1	481151	4.665E-06	0	0.00
5	50	221	1	481160	2.217E-02	0	0.00
5	50	222	1	481170	5.998E-09	0	0.00
5	50	223	1	481171	2.748E-10	0	0.00
5	50	224	1	481190	8.521E-13	0	0.00
5	50	225	1	481210	5.983E-15	0	0.00
5	50	226	1	491130	8.764E-03	0	0.00
5	50	227	1	491131	5.259E-06	0	0.00
5	50	228	1	491140	1.473E-09	0	0.00
5	50	229	1	491141	2.085E-05	0	0.00
5	50	230	1	491150	5.054E-06	0	0.00
5	50	231	1	491160	1.050E-11	0	0.00
5	50	232	1	491161	4.013E-10	0	0.00
5	50	233	1	491170	2.391E-09	0	0.00
5	50	234	1	491171	4.233E-09	0	0.00
5	50	235	1	491180	9.888E-13	0	0.00
5	50	236	1	491190	2.120E-11	0	0.00
5	50	237	1	491191	1.632E-12	0	0.00
5	50	238	1	491210	1.073E-14	0	0.00
5	50	239	1	501120	1.002E+01	0	0.00
5	50	240	1	501130	8.758E-03	0	0.00
5	50	241	1	501131	1.050E-06	0	0.00

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   5      50        242      1  501140 6.844E+00 0 0.00
   5      50        243      1  501150 3.889E+00 0 0.00
   5      50        244      1  501160 1.527E+02 0 0.00
   5      50        245      1  501170 8.130E+01 0 0.00
   5      50        246      1  501171 1.204E-02 0 0.00
   5      50        247      1  501180 2.569E+02 0 0.00
   5      50        248      1  501190 9.172E+01 0 0.00
   5      50        249      1  501191 3.595E-02 0 0.00
                                                                                                  PAGE    8
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:04
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                        CARD IMAGE
UNIT    UNIT     NUMBER
   5      50        250      1  501200 3.484E+02 0 0.00
   5      50        251      1  501210 5.581E-04 0 0.00
   5      50        252      1  501211 2.060E-04 0 0.00
   5      50        253      1  501220 5.029E+01 0 0.00
   5      50        254      1  501230 2.745E-03 0 0.00
   5      50        255      1  501231 5.587E-09 0 0.00
   5      50        256      1  501240 6.220E+01 0 0.00
   5      50        257      1  501250 1.808E-03 0 0.00
   5      50        258      1  501251 9.995E-07 0 0.00
   5      50        259      1  511210 3.466E-02 0 0.00
   5      50        260      1  511220 1.127E-05 0 0.00
   5      50        261      1  511221 1.059E-10 0 0.00
   5      50        262      1  511230 9.753E-04 0 0.00
   5      50        263      1  511240 1.411E-06 0 0.00
   5      50        264      1  511241 2.187E-13 0 0.00
   5      50        265      1  511250 2.157E-02 0 0.00
   5      50        266      1  511260 3.327E-06 0 0.00
   5      50        267      1  511261 4.418E-10 0 0.00
   5      50        268      1  521220 1.386E-04 0 0.00
   5      50        269      1  521231 5.416E-08 0 0.00
   5      50        270      1  521250 7.268E-04 0 0.00
   5      50        271      1  521251 1.290E-04 0 0.00
   5      50        272      1  521260 9.296E-06 0 0.00
   5      50        273      1  521270 3.454E-11 0 0.00
   5      50        274      1  521271 1.584E-10 0 0.00
   5      50        275      1  711750 5.984E-04 0 0.00
   5      50        276      1  711761 3.355E-08 0 0.00
   5      50        277      1  711770 5.425E-08 0 0.00
   5      50        278      1  711771 5.813E-10 0 0.00
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  5      50        279      1  721740 2.143E-02 0 0.00
  5      50        280      1  721750 8.644E-04 0 0.00
  5      50        281      1  721760 7.295E-01 0 0.00
  5      50        282      1  721770 1.986E+00 0 0.00
  5      50        283      1  721780 4.361E+00 0 0.00
  5      50        284      1  721781 1.253E-09 0 0.00
  5      50        285      1  721790 2.317E+00 0 0.00
  5      50        286      1  721791 6.940E-07 0 0.00
  5      50        287      1  721800 5.255E+00 0 0.00
  5      50        288      1  721801 1.621E-06 0 0.00
  5      50        289      1  721810 7.537E-03 0 0.00
  5      50        290      1  721820 2.677E-05 0 0.00
  5      50        291      1  731810 9.124E-03 0 0.00
  5      50        292      1  731820 7.187E-05 0 0.00
  5      50        293      1  731821 2.147E-11 0 0.00
  5      50        294      1  731830 4.734E-06 0 0.00
  5      50        295      1  741800 4.633E-03 0 0.00
  5      50        296      1  741810 2.716E-05 0 0.00
  5      50        297      1  741820 9.318E-01 0 0.00
  5      50        298      1  741830 5.384E-01 0 0.00
  5      50        299      1  741831 5.593E-11 0 0.00
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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:04
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                  CARD IMAGE
UNIT    UNIT     NUMBER
  5      50        300      1  741840 1.133E+00 0 0.00
  5      50        301      1  741850 5.223E-04 0 0.00
  5      50        302      1  741851 1.546E-11 0 0.00
  5      50        303      1  741860 1.037E+00 0 0.00
  5      50        304      1  741870 3.458E-04 0 0.00
  5      50        305      1  741880 2.291E-05 0 0.00
  5      50        306      1  751850 3.229E-04 0 0.00
  5      50        307      1  751860 1.378E-06 0 0.00
  5      50        308      1  751870 2.425E-02 0 0.00
  5      50        309      1  751880 5.250E-06 0 0.00
  5      50        310      1  751881 9.008E-08 0 0.00
  5      50        311      1  751890 2.143E-11 0 0.00
  5      50        312      1  761860 8.636E-06 0 0.00
  5      50        313      1  761880 2.658E-04 0 0.00
  5      50        314      1  822040 1.012E-01 0 0.00
  5      50        315      1  822050 1.488E-05 0 0.00
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5      50        316      1  822060 1.752E+00 0 0.00
5      50        317      1  822070 1.627E+00 0 0.00
5      50        318      1  822080 3.861E+00 0 0.00
5      50        319      1  822090 5.185E-10 0 0.00
5      50        320      2   20040 1.004E-04 0 0.00
5      50        321      2  812070 2.008E-18 0 0.00
5      50        322      2  812080 2.300E-15 0 0.00
5      50        323      2  822090 2.451E-17 0 0.00
5      50        324      2  822100 9.479E-15 0 0.00
5      50        325      2  822110 1.553E-17 0 0.00
5      50        326      2  822120 1.357E-12 0 0.00
5      50        327      2  822140 2.699E-18 0 0.00
5      50        328      2  832100 5.838E-18 0 0.00
5      50        329      2  832110 9.164E-19 0 0.00
5      50        330      2  832120 1.287E-13 0 0.00
5      50        331      2  832130 5.756E-18 0 0.00
5      50        332      2  832140 2.004E-18 0 0.00
5      50        333      2  842100 2.091E-17 0 0.00
5      50        334      2  842110 1.124E-23 0 0.00
5      50        335      2  842120 6.805E-24 0 0.00
5      50        336      2  842130 8.634E-27 0 0.00
5      50        337      2  842140 6.688E-25 0 0.00
5      50        338      2  842150 1.300E-23 0 0.00
5      50        339      2  842160 4.261E-18 0 0.00
5      50        340      2  842180 3.104E-19 0 0.00
5      50        341      2  852170 6.918E-23 0 0.00
5      50        342      2  862190 2.948E-20 0 0.00
5      50        343      2  862200 2.044E-15 0 0.00
5      50        344      2  862220 5.753E-16 0 0.00
5      50        345      2  872210 6.282E-19 0 0.00
5      50        346      2  872230 2.987E-19 0 0.00
5      50        347      2  882230 7.486E-15 0 0.00
5      50        348      2  882240 1.184E-11 0 0.00
5      50        349      2  882250 3.804E-15 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:04
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                  CARD IMAGE
UNIT    UNIT     NUMBER
5       50        350      2  882260 8.950E-11 0 0.00
5       50        351      2  892250 1.918E-15 0 0.00
5       50        352      2  892270 1.158E-11 0 0.00
```

5	50	353	2	902270	1.704E-14	0	0.00
5	50	354	2	902280	2.294E-09	0	0.00
5	50	355	2	902290	3.157E-10	0	0.00
5	50	356	2	902300	6.214E-05	0	0.00
5	50	357	2	902310	6.945E-08	0	0.00
5	50	358	2	902320	5.613E-06	0	0.00
5	50	359	2	902340	1.387E-05	0	0.00
5	50	360	2	912310	3.828E-06	0	0.00
5	50	361	2	912320	7.356E-09	0	0.00
5	50	362	2	912330	2.815E-07	0	0.00
5	50	363	2	912340	2.295E-10	0	0.00
5	50	364	2	912341	4.677E-10	0	0.00
5	50	365	2	922320	1.661E-06	0	0.00
5	50	366	2	922330	5.939E-05	0	0.00
5	50	367	2	922340	6.925E+01	0	0.00
5	50	368	2	922350	8.726E+03	0	0.00
5	50	369	2	922360	6.889E+02	0	0.00
5	50	370	2	922370	1.423E+00	0	0.00
5	50	371	2	922380	9.883E+05	0	0.00
5	50	372	2	922390	2.683E-01	0	0.00
5	50	373	2	922400	1.285E-05	0	0.00
5	50	374	2	932350	2.230E-08	0	0.00
5	50	375	2	932360	2.170E-06	0	0.00
5	50	376	2	932361	1.994E-07	0	0.00
5	50	377	2	932370	1.244E+01	0	0.00
5	50	378	2	932380	2.633E-02	0	0.00
5	50	379	2	932390	3.864E+01	0	0.00
5	50	380	2	932400	4.866E-04	0	0.00
5	50	381	2	932401	1.404E-05	0	0.00
5	50	382	2	942360	3.144E-06	0	0.00
5	50	383	2	942370	3.727E-07	0	0.00
5	50	384	2	942380	3.842E-01	0	0.00
5	50	385	2	942390	9.273E+02	0	0.00
5	50	386	2	942400	6.306E+01	0	0.00
5	50	387	2	942410	8.354E+00	0	0.00
5	50	388	2	942420	2.074E-01	0	0.00
5	50	389	2	942430	3.139E-05	0	0.00
5	50	390	2	952410	3.122E-02	0	0.00
5	50	391	2	952420	6.708E-05	0	0.00
5	50	392	2	952421	1.522E-04	0	0.00
5	50	393	2	952430	2.243E-03	0	0.00
5	50	394	2	952440	6.535E-08	0	0.00
5	50	395	2	952441	5.339E-08	0	0.00

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  5      50        396      2  962420 1.273E-03 0 0.00
  5      50        397      2  962430 2.149E-06 0 0.00
  5      50        398      2  962440 3.831E-05 0 0.00
  5      50        399      2  962450 1.365E-07 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:04
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                        CARD IMAGE
UNIT    UNIT     NUMBER
  5      50        400      3   10030 1.909E-03 0 0.00
  5      50        401      3   30060 1.391E-05 0 0.00
  5      50        402      3   30070 3.525E-07 0 0.00
  5      50        403      3   40090 6.798E-07 0 0.00
  5      50        404      3   40100 4.532E-06 0 0.00
  5      50        405      3   60140 9.165E-07 0 0.00
  5      50        406      3  270720 4.359E-13 0 0.00
  5      50        407      3  270730 1.302E-13 0 0.00
  5      50        408      3  270740 2.563E-14 0 0.00
  5      50        409      3  280720 1.610E-10 0 0.00
  5      50        410      3  280730 2.219E-11 0 0.00
  5      50        411      3  280740 2.513E-11 0 0.00
  5      50        412      3  280750 2.860E-12 0 0.00
  5      50        413      3  280760 1.154E-12 0 0.00
  5      50        414      3  280770 7.468E-14 0 0.00
  5      50        415      3  280780 1.165E-14 0 0.00
  5      50        416      3  290720 7.204E-10 0 0.00
  5      50        417      3  290730 7.161E-10 0 0.00
  5      50        418      3  290740 1.545E-10 0 0.00
  5      50        419      3  290750 2.143E-10 0 0.00
  5      50        420      3  290760 5.041E-11 0 0.00
  5      50        421      3  290770 3.135E-11 0 0.00
  5      50        422      3  290780 4.707E-12 0 0.00
  5      50        423      3  290790 1.467E-12 0 0.00
  5      50        424      3  290800 1.002E-13 0 0.00
  5      50        425      3  290810 5.900E-15 0 0.00
  5      50        426      3  300720 2.230E-05 0 0.00
  5      50        427      3  300730 6.713E-09 0 0.00
  5      50        428      3  300740 5.476E-08 0 0.00
  5      50        429      3  300750 1.024E-08 0 0.00
  5      50        430      3  300760 1.195E-08 0 0.00
  5      50        431      3  300770 3.597E-09 0 0.00
  5      50        432      3  300780 6.650E-09 0 0.00
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  5      50        433      3  300790 6.077E-10 0 0.00
  5      50        434      3  300800 4.422E-10 0 0.00
  5      50        435      3  300810 1.768E-11 0 0.00
  5      50        436      3  300820 2.317E-12 0 0.00
  5      50        437      3  300830 1.324E-13 0 0.00
  5      50        438      3  310720 6.775E-06 0 0.00
  5      50        439      3  310730 5.175E-06 0 0.00
  5      50        440      3  310740 2.922E-07 0 0.00
  5      50        441      3  310750 1.480E-07 0 0.00
  5      50        442      3  310760 8.417E-08 0 0.00
  5      50        443      3  310770 7.683E-08 0 0.00
  5      50        444      3  310780 5.483E-08 0 0.00
  5      50        445      3  310790 3.487E-08 0 0.00
  5      50        446      3  310800 2.364E-08 0 0.00
  5      50        447      3  310810 5.779E-09 0 0.00
  5      50        448      3  310820 4.588E-10 0 0.00
  5      50        449      3  310830 1.207E-10 0 0.00
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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:04
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE   CARD                                  CARD IMAGE
UNIT    UNIT    NUMBER
  5      50        450      3  310840 8.834E-12 0 0.00
  5      50        451      3  320720 7.458E-04 0 0.00
  5      50        452      3  320730 1.738E-03 0 0.00
  5      50        453      3  320731 1.562E-10 0 0.00
  5      50        454      3  320740 3.576E-03 0 0.00
  5      50        455      3  320750 6.486E-06 0 0.00
  5      50        456      3  320751 2.724E-09 0 0.00
  5      50        457      3  320760 1.941E-02 0 0.00
  5      50        458      3  320770 9.770E-05 0 0.00
  5      50        459      3  320771 3.049E-07 0 0.00
  5      50        460      3  320780 7.342E-05 0 0.00
  5      50        461      3  320790 1.326E-06 0 0.00
  5      50        462      3  320800 1.658E-06 0 0.00
  5      50        463      3  320810 9.157E-07 0 0.00
  5      50        464      3  320820 3.900E-07 0 0.00
  5      50        465      3  320830 1.205E-07 0 0.00
  5      50        466      3  320840 2.070E-08 0 0.00
  5      50        467      3  320850 1.153E-09 0 0.00
  5      50        468      3  320860 2.423E-10 0 0.00
  5      50        469      3  320870 1.759E-11 0 0.00
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  5      50        470      3  320880 6.044E-13 0 0.00
  5      50        471      3  330750 7.779E-03 0 0.00
  5      50        472      3  330760 4.508E-07 0 0.00
  5      50        473      3  330770 9.572E-04 0 0.00
  5      50        474      3  330780 7.791E-05 0 0.00
  5      50        475      3  330790 1.974E-05 0 0.00
  5      50        476      3  330800 1.352E-06 0 0.00
  5      50        477      3  330810 4.316E-06 0 0.00
  5      50        478      3  330820 2.858E-06 0 0.00
  5      50        479      3  330821 6.642E-07 0 0.00
  5      50        480      3  330830 3.476E-06 0 0.00
  5      50        481      3  330840 1.193E-06 0 0.00
  5      50        482      3  330850 2.661E-07 0 0.00
  5      50        483      3  330860 6.563E-08 0 0.00
  5      50        484      3  330870 1.182E-08 0 0.00
  5      50        485      3  330880 3.301E-10 0 0.00
  5      50        486      3  330890 3.319E-11 0 0.00
  5      50        487      3  340760 1.451E-05 0 0.00
  5      50        488      3  340770 4.020E-02 0 0.00
  5      50        489      3  340771 2.977E-10 0 0.00
  5      50        490      3  340780 8.419E-02 0 0.00
  5      50        491      3  340790 2.185E-01 0 0.00
  5      50        492      3  340791 8.536E-06 0 0.00
  5      50        493      3  340800 4.941E-01 0 0.00
  5      50        494      3  340810 1.576E-04 0 0.00
  5      50        495      3  340811 1.409E-05 0 0.00
  5      50        496      3  340820 1.322E+00 0 0.00
  5      50        497      3  340830 1.784E-04 0 0.00
  5      50        498      3  340831 1.484E-05 0 0.00
  5      50        499      3  340840 1.237E-04 0 0.00
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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:04
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                    CARD IMAGE
UNIT    UNIT     NUMBER
  5      50        500      3  340850 1.516E-05 0 0.00
  5      50        501      3  340851 5.345E-06 0 0.00
  5      50        502      3  340860 1.336E-05 0 0.00
  5      50        503      3  340870 3.512E-06 0 0.00
  5      50        504      3  340880 3.698E-07 0 0.00
  5      50        505      3  340890 2.907E-08 0 0.00
  5      50        506      3  340900 1.298E-08 0 0.00
```

5	50	507	3	340910	5.776E-10	0	0.00
5	50	508	3	340920	3.364E-11	0	0.00
5	50	509	3	350790	5.120E-07	0	0.00
5	50	510	3	350800	1.139E-09	0	0.00
5	50	511	3	350801	1.072E-08	0	0.00
5	50	512	3	350810	8.536E-01	0	0.00
5	50	513	3	350820	1.546E-04	0	0.00
5	50	514	3	350821	1.544E-07	0	0.00
5	50	515	3	350830	2.997E-03	0	0.00
5	50	516	3	350840	1.220E-03	0	0.00
5	50	517	3	350841	5.604E-06	0	0.00
5	50	518	3	350850	1.357E-04	0	0.00
5	50	519	3	350860	3.256E-05	0	0.00
5	50	520	3	350861	2.683E-06	0	0.00
5	50	521	3	350870	7.619E-05	0	0.00
5	50	522	3	350880	2.538E-05	0	0.00
5	50	523	3	350890	5.256E-06	0	0.00
5	50	524	3	350900	1.257E-06	0	0.00
5	50	525	3	350910	1.595E-07	0	0.00
5	50	526	3	350920	6.623E-09	0	0.00
5	50	527	3	350930	8.896E-10	0	0.00
5	50	528	3	350940	3.971E-11	0	0.00
5	50	529	3	350950	2.917E-12	0	0.00
5	50	530	3	350960	1.132E-13	0	0.00
5	50	531	3	360800	4.291E-06	0	0.00
5	50	532	3	360810	1.620E-07	0	0.00
5	50	533	3	360820	3.988E-03	0	0.00
5	50	534	3	360830	2.085E+00	0	0.00
5	50	535	3	360831	2.295E-03	0	0.00
5	50	536	3	360840	4.114E+00	0	0.00
5	50	537	3	360850	1.048E+00	0	0.00
5	50	538	3	360851	1.286E-02	0	0.00
5	50	539	3	360860	7.884E+00	0	0.00
5	50	540	3	360870	7.400E-03	0	0.00
5	50	541	3	360880	2.361E-02	0	0.00
5	50	542	3	360890	5.561E-04	0	0.00
5	50	543	3	360900	9.494E-05	0	0.00
5	50	544	3	360910	1.933E-05	0	0.00
5	50	545	3	360920	1.930E-06	0	0.00
5	50	546	3	360930	4.835E-07	0	0.00
5	50	547	3	360940	3.262E-08	0	0.00
5	50	548	3	360950	7.777E-09	0	0.00
5	50	549	3	360960	1.113E-09	0	0.00

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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:04
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                        CARD IMAGE
UNIT    UNIT     NUMBER
   5      50       550      3  360970 2.002E-11 0 0.00
   5      50       551      3  360980 3.727E-12 0 0.00
   5      50       552      3  370850 3.916E+00 0 0.00
   5      50       553      3  370860 4.924E-04 0 0.00
   5      50       554      3  370861 7.282E-09 0 0.00
   5      50       555      3  370870 1.017E+01 0 0.00
   5      50       556      3  370880 2.493E-03 0 0.00
   5      50       557      3  370890 2.793E-03 0 0.00
   5      50       558      3  370900 4.655E-04 0 0.00
   5      50       559      3  370901 1.694E-04 0 0.00
   5      50       560      3  370910 2.163E-04 0 0.00
   5      50       561      3  370920 1.442E-05 0 0.00
   5      50       562      3  370930 1.421E-05 0 0.00
   5      50       563      3  370940 3.421E-06 0 0.00
   5      50       564      3  370950 2.431E-07 0 0.00
   5      50       565      3  370960 3.722E-08 0 0.00
   5      50       566      3  370970 5.830E-09 0 0.00
   5      50       567      3  370980 1.043E-09 0 0.00
   5      50       568      3  370990 5.471E-11 0 0.00
   5      50       569      3  371000 6.070E-12 0 0.00
   5      50       570      3  380860 9.230E-04 0 0.00
   5      50       571      3  380870 2.699E-05 0 0.00
   5      50       572      3  380871 2.754E-08 0 0.00
   5      50       573      3  380880 1.461E+01 0 0.00
   5      50       574      3  380890 9.532E+00 0 0.00
   5      50       575      3  380900 2.311E+01 0 0.00
   5      50       576      3  380910 1.335E-01 0 0.00
   5      50       577      3  380920 4.029E-02 0 0.00
   5      50       578      3  380930 2.045E-03 0 0.00
   5      50       579      3  380940 3.217E-04 0 0.00
   5      50       580      3  380950 1.044E-04 0 0.00
   5      50       581      3  380960 1.130E-05 0 0.00
   5      50       582      3  380970 3.030E-07 0 0.00
   5      50       583      3  380980 5.176E-07 0 0.00
   5      50       584      3  380990 9.172E-08 0 0.00
   5      50       585      3  381000 3.280E-08 0 0.00
   5      50       586      3  381010 1.134E-09 0 0.00
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  5      50        587      3  381020 1.648E-10 0 0.00
  5      50        588      3  381030 1.716E-12 0 0.00
  5      50        589      3  381040 8.807E-14 0 0.00
  5      50        590      3  390890 9.705E+00 0 0.00
  5      50        591      3  390891 1.143E-11 0 0.00
  5      50        592      3  390900 5.908E-03 0 0.00
  5      50        593      3  390901 2.492E-07 0 0.00
  5      50        594      3  390910 1.302E+01 0 0.00
  5      50        595      3  390911 6.756E-03 0 0.00
  5      50        596      3  390920 5.276E-02 0 0.00
  5      50        597      3  390930 1.683E-01 0 0.00
  5      50        598      3  390940 5.232E-03 0 0.00
  5      50        599      3  390950 3.051E-03 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:04
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                  CARD IMAGE
UNIT    UNIT     NUMBER
  5      50        600      3  390960 6.357E-04 0 0.00
  5      50        601      3  390970 4.410E-06 0 0.00
  5      50        602      3  390980 8.678E-07 0 0.00
  5      50        603      3  390990 1.347E-06 0 0.00
  5      50        604      3  391000 5.839E-07 0 0.00
  5      50        605      3  391010 2.522E-07 0 0.00
  5      50        606      3  391020 1.656E-08 0 0.00
  5      50        607      3  391030 2.935E-09 0 0.00
  5      50        608      3  391040 8.828E-11 0 0.00
  5      50        609      3  391050 6.019E-12 0 0.00
  5      50        610      3  400900 1.196E-01 0 0.00
  5      50        611      3  400910 1.118E+01 0 0.00
  5      50        612      3  400920 2.550E+01 0 0.00
  5      50        613      3  400930 2.813E+01 0 0.00
  5      50        614      3  400940 2.774E+01 0 0.00
  5      50        615      3  400950 1.672E+01 0 0.00
  5      50        616      3  400960 2.937E+01 0 0.00
  5      50        617      3  400970 2.886E-01 0 0.00
  5      50        618      3  400980 1.481E-04 0 0.00
  5      50        619      3  400990 1.142E-05 0 0.00
  5      50        620      3  401000 3.175E-05 0 0.00
  5      50        621      3  401010 9.773E-06 0 0.00
  5      50        622      3  401020 4.677E-05 0 0.00
  5      50        623      3  401030 9.943E-07 0 0.00
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  5      50        624      3  401040 4.264E-07 0 0.00
  5      50        625      3  401050 8.377E-09 0 0.00
  5      50        626      3  401060 2.208E-09 0 0.00
  5      50        627      3  401070 2.727E-11 0 0.00
  5      50        628      3  401080 1.310E-11 0 0.00
  5      50        629      3  401090 3.233E-13 0 0.00
  5      50        630      3  410930 2.750E-07 0 0.00
  5      50        631      3  410931 2.130E-06 0 0.00
  5      50        632      3  410940 1.205E-05 0 0.00
  5      50        633      3  410941 5.952E-10 0 0.00
  5      50        634      3  410950 6.097E+00 0 0.00
  5      50        635      3  410951 6.787E-03 0 0.00
  5      50        636      3  410960 1.966E-04 0 0.00
  5      50        637      3  410970 2.065E-02 0 0.00
  5      50        638      3  410971 2.698E-04 0 0.00
  5      50        639      3  410980 1.353E-05 0 0.00
  5      50        640      3  410981 1.025E-04 0 0.00
  5      50        641      3  410990 7.015E-05 0 0.00
  5      50        642      3  410991 2.408E-05 0 0.00
  5      50        643      3  411000 6.477E-06 0 0.00
  5      50        644      3  411001 6.504E-06 0 0.00
  5      50        645      3  411010 3.097E-05 0 0.00
  5      50        646      3  411020 1.081E-05 0 0.00
  5      50        647      3  411030 3.616E-05 0 0.00
  5      50        648      3  411040 9.832E-07 0 0.00
  5      50        649      3  411050 5.420E-07 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:04
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE     CARD                                        CARD IMAGE
UNIT    UNIT      NUMBER
  5      50        650      3  411060 4.431E-08 0 0.00
  5      50        651      3  411070 8.289E-09 0 0.00
  5      50        652      3  411080 8.881E-10 0 0.00
  5      50        653      3  411090 2.221E-10 0 0.00
  5      50        654      3  411100 1.172E-11 0 0.00
  5      50        655      3  411110 1.251E-12 0 0.00
  5      50        656      3  420950 6.571E+00 0 0.00
  5      50        657      3  420960 2.273E-02 0 0.00
  5      50        658      3  420970 2.803E+01 0 0.00
  5      50        659      3  420980 2.872E+01 0 0.00
  5      50        660      3  420990 1.204E+00 0 0.00
```

```
5    50    661    3  421000 3.184E+01 0 0.00
5    50    662    3  421010 4.042E-03 0 0.00
5    50    663    3  421020 2.756E-03 0 0.00
5    50    664    3  421030 2.122E-04 0 0.00
5    50    665    3  421040 2.371E-04 0 0.00
5    50    666    3  421050 8.432E-05 0 0.00
5    50    667    3  421060 6.431E-06 0 0.00
5    50    668    3  421070 1.498E-06 0 0.00
5    50    669    3  421080 1.412E-07 0 0.00
5    50    670    3  421090 3.679E-08 0 0.00
5    50    671    3  421100 1.791E-08 0 0.00
5    50    672    3  421110 8.222E-10 0 0.00
5    50    673    3  421120 2.704E-10 0 0.00
5    50    674    3  421130 5.552E-12 0 0.00
5    50    675    3  421140 9.374E-13 0 0.00
5    50    676    3  421150 2.286E-14 0 0.00
5    50    677    3  430980 1.322E-05 0 0.00
5    50    678    3  430990 2.852E+01 0 0.00
5    50    679    3  430991 9.612E-02 0 0.00
5    50    680    3  431000 9.232E-07 0 0.00
5    50    681    3  431010 3.926E-03 0 0.00
5    50    682    3  431020 2.187E-05 0 0.00
5    50    683    3  431021 7.939E-07 0 0.00
5    50    684    3  431030 1.788E-04 0 0.00
5    50    685    3  431040 2.849E-03 0 0.00
5    50    686    3  431050 8.980E-04 0 0.00
5    50    687    3  431060 4.030E-05 0 0.00
5    50    688    3  431070 1.509E-05 0 0.00
5    50    689    3  431080 1.629E-06 0 0.00
5    50    690    3  431090 8.596E-06 0 0.00
5    50    691    3  431100 4.683E-08 0 0.00
5    50    692    3  431110 3.285E-08 0 0.00
5    50    693    3  431120 3.427E-09 0 0.00
5    50    694    3  431130 1.220E-09 0 0.00
5    50    695    3  431140 1.074E-10 0 0.00
5    50    696    3  431150 2.946E-11 0 0.00
5    50    697    3  431160 8.802E-13 0 0.00
5    50    698    3  431170 4.849E-14 0 0.00
5    50    699    3  440990 1.501E-05 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:04
LISTING OF INPUT DATA ON UNIT = 5
```

INPUT UNIT	WRITE UNIT	CARD NUMBER	CARD IMAGE
5	50	700	3 441000 1.764E-01 0 0.00
5	50	701	3 441010 2.676E+01 0 0.00
5	50	702	3 441020 2.371E+01 0 0.00
5	50	703	3 441030 8.690E+00 0 0.00
5	50	704	3 441040 1.362E+01 0 0.00
5	50	705	3 441050 3.015E-02 0 0.00
5	50	706	3 441060 4.966E+00 0 0.00
5	50	707	3 441070 2.035E-04 0 0.00
5	50	708	3 441080 1.423E-04 0 0.00
5	50	709	3 441090 1.185E-05 0 0.00
5	50	710	3 441100 2.638E-06 0 0.00
5	50	711	3 441110 1.426E-06 0 0.00
5	50	712	3 441120 3.778E-08 0 0.00
5	50	713	3 441130 9.541E-08 0 0.00
5	50	714	3 441140 8.928E-08 0 0.00
5	50	715	3 441150 6.341E-09 0 0.00
5	50	716	3 441160 2.779E-09 0 0.00
5	50	717	3 441170 9.625E-11 0 0.00
5	50	718	3 441180 1.224E-09 0 0.00
5	50	719	3 441200 1.233E-13 0 0.00
5	50	720	3 451020 1.377E-06 0 0.00
5	50	721	3 451030 1.041E+01 0 0.00
5	50	722	3 451031 7.766E-03 0 0.00
5	50	723	3 451040 6.083E-06 0 0.00
5	50	724	3 451041 2.712E-06 0 0.00
5	50	725	3 451050 2.135E-01 0 0.00
5	50	726	3 451051 2.378E-05 0 0.00
5	50	727	3 451060 9.007E-06 0 0.00
5	50	728	3 451061 5.586E-04 0 0.00
5	50	729	3 451070 1.057E-03 0 0.00
5	50	730	3 451080 8.935E-06 0 0.00
5	50	731	3 451081 1.728E-06 0 0.00
5	50	732	3 451090 3.141E-05 0 0.00
5	50	733	3 451091 8.725E-06 0 0.00
5	50	734	3 451100 5.060E-06 0 0.00
5	50	735	3 451101 2.892E-08 0 0.00
5	50	736	3 451110 7.204E-06 0 0.00
5	50	737	3 451120 3.475E-07 0 0.00
5	50	738	3 451130 5.458E-08 0 0.00
5	50	739	3 451140 7.070E-08 0 0.00
5	50	740	3 451150 2.119E-07 0 0.00

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  5      50        741      3  451160 1.460E-08 0 0.00
  5      50        742      3  451170 1.268E-08 0 0.00
  5      50        743      3  451180 4.566E-09 0 0.00
  5      50        744      3  451190 4.526E-10 0 0.00
  5      50        745      3  451200 3.086E-11 0 0.00
  5      50        746      3  451210 6.690E-12 0 0.00
  5      50        747      3  451220 3.899E-13 0 0.00
  5      50        748      3  451230 4.283E-14 0 0.00
  5      50        749      3  461040 3.442E-01 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:04
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                  CARD IMAGE
UNIT    UNIT     NUMBER
  5      50        750      3  461050 8.029E+00 0 0.00
  5      50        751      3  461060 1.533E+00 0 0.00
  5      50        752      3  461070 3.400E+00 0 0.00
  5      50        753      3  461071 1.244E-10 0 0.00
  5      50        754      3  461080 2.171E+00 0 0.00
  5      50        755      3  461090 1.711E-02 0 0.00
  5      50        756      3  461091 4.913E-05 0 0.00
  5      50        757      3  461100 8.137E-01 0 0.00
  5      50        758      3  461110 1.526E-04 0 0.00
  5      50        759      3  461111 2.520E-05 0 0.00
  5      50        760      3  461120 5.585E-03 0 0.00
  5      50        761      3  461130 6.149E-06 0 0.00
  5      50        762      3  461140 7.766E-06 0 0.00
  5      50        763      3  461150 2.178E-06 0 0.00
  5      50        764      3  461160 6.441E-07 0 0.00
  5      50        765      3  461170 2.225E-07 0 0.00
  5      50        766      3  461180 1.144E-07 0 0.00
  5      50        767      3  461190 4.002E-08 0 0.00
  5      50        768      3  461200 4.546E-08 0 0.00
  5      50        769      3  461210 2.626E-09 0 0.00
  5      50        770      3  461220 1.666E-09 0 0.00
  5      50        771      3  461230 9.381E-11 0 0.00
  5      50        772      3  461240 3.111E-11 0 0.00
  5      50        773      3  461260 2.224E-13 0 0.00
  5      50        774      3  471070 4.998E-08 0 0.00
  5      50        775      3  471080 2.451E-11 0 0.00
  5      50        776      3  471081 1.243E-08 0 0.00
  5      50        777      3  471090 1.371E+00 0 0.00
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   5      50        778      3  471091 1.398E-05 0 0.00
   5      50        779      3  471100 3.805E-07 0 0.00
   5      50        780      3  471101 1.885E-03 0 0.00
   5      50        781      3  471110 7.138E-02 0 0.00
   5      50        782      3  471111 7.482E-06 0 0.00
   5      50        783      3  471120 8.721E-04 0 0.00
   5      50        784      3  471130 1.175E-03 0 0.00
   5      50        785      3  471131 4.549E-07 0 0.00
   5      50        786      3  471140 2.459E-07 0 0.00
   5      50        787      3  471150 5.117E-05 0 0.00
   5      50        788      3  471151 2.752E-07 0 0.00
   5      50        789      3  471160 4.017E-06 0 0.00
   5      50        790      3  471161 2.598E-07 0 0.00
   5      50        791      3  471170 1.855E-06 0 0.00
   5      50        792      3  471171 1.343E-07 0 0.00
   5      50        793      3  471180 1.298E-07 0 0.00
   5      50        794      3  471181 6.532E-08 0 0.00
   5      50        795      3  471190 2.739E-07 0 0.00
   5      50        796      3  471200 4.110E-08 0 0.00
   5      50        797      3  471210 7.575E-08 0 0.00
   5      50        798      3  471220 1.602E-09 0 0.00
   5      50        799      3  471230 7.393E-09 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:04
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                   CARD IMAGE
UNIT    UNIT     NUMBER
   5      50        800      3  471240 1.039E-09 0 0.00
   5      50        801      3  471250 4.385E-10 0 0.00
   5      50        802      3  471260 5.440E-11 0 0.00
   5      50        803      3  471280 1.313E-12 0 0.00
   5      50        804      3  481080 4.250E-07 0 0.00
   5      50        805      3  481100 3.880E-02 0 0.00
   5      50        806      3  481110 4.943E-01 0 0.00
   5      50        807      3  481111 4.963E-10 0 0.00
   5      50        808      3  481120 4.118E-01 0 0.00
   5      50        809      3  481130 4.314E-02 0 0.00
   5      50        810      3  481131 6.476E-03 0 0.00
   5      50        811      3  481140 6.408E-01 0 0.00
   5      50        812      3  481150 1.035E-02 0 0.00
   5      50        813      3  481151 1.432E-02 0 0.00
   5      50        814      3  481160 2.911E-01 0 0.00
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  5      50        815      3  481170 3.108E-04 0 0.00
  5      50        816      3  481171 2.201E-04 0 0.00
  5      50        817      3  481180 1.548E-04 0 0.00
  5      50        818      3  481190 1.436E-05 0 0.00
  5      50        819      3  481191 4.890E-06 0 0.00
  5      50        820      3  481200 2.611E-06 0 0.00
  5      50        821      3  481210 6.630E-07 0 0.00
  5      50        822      3  481220 2.829E-07 0 0.00
  5      50        823      3  481230 4.210E-07 0 0.00
  5      50        824      3  481240 8.049E-07 0 0.00
  5      50        825      3  481250 5.097E-08 0 0.00
  5      50        826      3  481260 9.159E-08 0 0.00
  5      50        827      3  481270 7.773E-09 0 0.00
  5      50        828      3  481280 5.980E-09 0 0.00
  5      50        829      3  481290 6.727E-10 0 0.00
  5      50        830      3  481300 1.172E-09 0 0.00
  5      50        831      3  481310 4.227E-11 0 0.00
  5      50        832      3  481320 4.796E-12 0 0.00
  5      50        833      3  491130 4.790E-05 0 0.00
  5      50        834      3  491140 7.734E-12 0 0.00
  5      50        835      3  491150 2.623E-01 0 0.00
  5      50        836      3  491151 8.344E-04 0 0.00
  5      50        837      3  491160 1.147E-07 0 0.00
  5      50        838      3  491161 2.084E-05 0 0.00
  5      50        839      3  491170 8.085E-05 0 0.00
  5      50        840      3  491171 2.709E-04 0 0.00
  5      50        841      3  491180 2.565E-07 0 0.00
  5      50        842      3  491181 3.300E-09 0 0.00
  5      50        843      3  491190 2.201E-06 0 0.00
  5      50        844      3  491191 4.130E-05 0 0.00
  5      50        845      3  491200 1.158E-06 0 0.00
  5      50        846      3  491201 8.029E-08 0 0.00
  5      50        847      3  491210 1.223E-06 0 0.00
  5      50        848      3  491211 2.125E-06 0 0.00
  5      50        849      3  491220 5.445E-07 0 0.00
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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:04
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                  CARD IMAGE
UNIT    UNIT     NUMBER
  5      50        850      3  491221 4.537E-09 0 0.00
  5      50        851      3  491230 2.695E-07 0 0.00
```

5	50	852	3	491231	8.654E-07	0	0.00
5	50	853	3	491240	2.355E-07	0	0.00
5	50	854	3	491250	9.968E-08	0	0.00
5	50	855	3	491251	3.650E-07	0	0.00
5	50	856	3	491260	1.560E-07	0	0.00
5	50	857	3	491270	1.103E-07	0	0.00
5	50	858	3	491271	2.010E-07	0	0.00
5	50	859	3	491280	3.716E-07	0	0.00
5	50	860	3	491290	6.437E-08	0	0.00
5	50	861	3	491300	5.609E-08	0	0.00
5	50	862	3	491310	1.192E-08	0	0.00
5	50	863	3	491320	1.340E-09	0	0.00
5	50	864	3	491330	1.356E-10	0	0.00
5	50	865	3	491340	5.033E-12	0	0.00
5	50	866	3	501140	2.127E-07	0	0.00
5	50	867	3	501150	1.115E-02	0	0.00
5	50	868	3	501160	4.549E-02	0	0.00
5	50	869	3	501170	2.966E-01	0	0.00
5	50	870	3	501171	2.575E-06	0	0.00
5	50	871	3	501180	2.990E-01	0	0.00
5	50	872	3	501190	2.924E-01	0	0.00
5	50	873	3	501191	3.654E-03	0	0.00
5	50	874	3	501200	3.033E-01	0	0.00
5	50	875	3	501210	5.251E-03	0	0.00
5	50	876	3	501211	7.678E-05	0	0.00
5	50	877	3	501220	3.359E-01	0	0.00
5	50	878	3	501230	5.538E-02	0	0.00
5	50	879	3	501231	1.263E-04	0	0.00
5	50	880	3	501240	4.512E-01	0	0.00
5	50	881	3	501250	3.298E-02	0	0.00
5	50	882	3	501251	3.828E-05	0	0.00
5	50	883	3	501260	8.510E-01	0	0.00
5	50	884	3	501270	1.522E-03	0	0.00
5	50	885	3	501271	2.288E-05	0	0.00
5	50	886	3	501280	1.910E-03	0	0.00
5	50	887	3	501290	1.539E-04	0	0.00
5	50	888	3	501291	6.643E-05	0	0.00
5	50	889	3	501300	2.723E-04	0	0.00
5	50	890	3	501310	7.382E-05	0	0.00
5	50	891	3	501320	2.807E-05	0	0.00
5	50	892	3	501330	3.269E-07	0	0.00
5	50	893	3	501340	2.362E-08	0	0.00
5	50	894	3	501350	9.795E-10	0	0.00

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    5       50          895       3  501360 1.187E-10 0 0.00
    5       50          896       3  511210 3.104E-01 0 0.00
    5       50          897       3  511220 1.011E-04 0 0.00
    5       50          898       3  511221 1.008E-09 0 0.00
    5       50          899       3  511230 3.233E-01 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:04
LISTING OF INPUT DATA ON UNIT = 5

INPUT    WRITE      CARD                                  CARD IMAGE
UNIT     UNIT       NUMBER
    5       50          900       3  511240 6.308E-04 0 0.00
    5       50          901       3  511241 1.501E-09 0 0.00
    5       50          902       3  511250 5.459E-01 0 0.00
    5       50          903       3  511260 2.073E-03 0 0.00
    5       50          904       3  511261 1.245E-06 0 0.00
    5       50          905       3  511270 1.031E-01 0 0.00
    5       50          906       3  511280 1.182E-03 0 0.00
    5       50          907       3  511281 3.575E-04 0 0.00
    5       50          908       3  511290 1.559E-02 0 0.00
    5       50          909       3  511300 7.442E-04 0 0.00
    5       50          910       3  511301 6.040E-04 0 0.00
    5       50          911       3  511310 4.158E-03 0 0.00
    5       50          912       3  511320 3.226E-04 0 0.00
    5       50          913       3  511321 3.049E-04 0 0.00
    5       50          914       3  511330 3.511E-04 0 0.00
    5       50          915       3  511340 4.012E-06 0 0.00
    5       50          916       3  511341 3.603E-06 0 0.00
    5       50          917       3  511350 4.139E-07 0 0.00
    5       50          918       3  511360 1.081E-08 0 0.00
    5       50          919       3  511370 1.858E-09 0 0.00
    5       50          920       3  511380 1.056E-10 0 0.00
    5       50          921       3  511390 1.027E-11 0 0.00
    5       50          922       3  521220 1.219E-03 0 0.00
    5       50          923       3  521230 1.519E-06 0 0.00
    5       50          924       3  521231 4.750E-07 0 0.00
    5       50          925       3  521240 3.200E-04 0 0.00
    5       50          926       3  521250 1.792E-02 0 0.00
    5       50          927       3  521251 3.188E-03 0 0.00
    5       50          928       3  521260 1.320E-02 0 0.00
    5       50          929       3  521270 9.538E-03 0 0.00
    5       50          930       3  521271 1.568E-01 0 0.00
    5       50          931       3  521280 3.383E+00 0 0.00
```

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  5      50        932      3  521290 4.020E-03 0 0.00
  5      50        933      3  521291 3.237E-01 0 0.00
  5      50        934      3  521300 1.118E+01 0 0.00
  5      50        935      3  521310 4.670E-03 0 0.00
  5      50        936      3  521311 5.106E-02 0 0.00
  5      50        937      3  521320 1.430E+00 0 0.00
  5      50        938      3  521330 3.350E-03 0 0.00
  5      50        939      3  521331 1.010E-02 0 0.00
  5      50        940      3  521340 1.767E-02 0 0.00
  5      50        941      3  521350 6.933E-05 0 0.00
  5      50        942      3  521360 4.305E-05 0 0.00
  5      50        943      3  521370 1.944E-06 0 0.00
  5      50        944      3  521380 2.348E-07 0 0.00
  5      50        945      3  521390 1.176E-08 0 0.00
  5      50        946      3  521400 2.581E-09 0 0.00
  5      50        947      3  521410 3.641E-11 0 0.00
  5      50        948      3  521420 7.664E-12 0 0.00
  5      50        949      3  531270 1.406E+00 0 0.00
```



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ORIGEN2 V2.2 (9-4-2002), Run on 07/27/10     at 06:33:04
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                        CARD IMAGE
UNIT    UNIT     NUMBER
  5      50        950      3  531280 2.467E-06 0 0.00
  5      50        951      3  531290 5.357E+00 0 0.00
  5      50        952      3  531300 3.585E-04 0 0.00
  5      50        953      3  531301 1.690E-06 0 0.00
  5      50        954      3  531310 2.357E+00 0 0.00
  5      50        955      3  531320 4.251E-02 0 0.00
  5      50        956      3  531330 5.726E-01 0 0.00
  5      50        957      3  531331 1.663E-06 0 0.00
  5      50        958      3  531340 2.699E-02 0 0.00
  5      50        959      3  531341 1.433E-04 0 0.00
  5      50        960      3  531350 1.716E-01 0 0.00
  5      50        961      3  531360 2.929E-04 0 0.00
  5      50        962      3  531361 9.776E-05 0 0.00
  5      50        963      3  531370 9.010E-05 0 0.00
  5      50        964      3  531380 1.223E-05 0 0.00
  5      50        965      3  531390 2.130E-06 0 0.00
  5      50        966      3  531400 2.317E-07 0 0.00
  5      50        967      3  531410 1.787E-08 0 0.00
  5      50        968      3  531420 1.152E-09 0 0.00
```

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  5      50        969      3  531430 1.207E-10 0 0.00
  5      50        970      3  531440 3.950E-12 0 0.00
  5      50        971      3  541280 4.495E-03 0 0.00
  5      50        972      3  541290 7.014E-06 0 0.00
  5      50        973      3  541300 2.593E-02 0 0.00
  5      50        974      3  541310 1.724E+01 0 0.00
  5      50        975      3  541311 3.519E-02 0 0.00
  5      50        976      3  541320 2.883E+01 0 0.00
  5      50        977      3  541330 3.350E+00 0 0.00
  5      50        978      3  541331 4.371E-02 0 0.00
  5      50        979      3  541340 5.123E+01 0 0.00
  5      50        980      3  541341 1.179E-08 0 0.00
  5      50        981      3  541350 6.473E-02 0 0.00
  5      50        982      3  541351 1.289E-03 0 0.00
  5      50        983      3  541360 7.745E+01 0 0.00
  5      50        984      3  541370 1.584E-03 0 0.00
  5      50        985      3  541380 5.896E-03 0 0.00
  5      50        986      3  541390 2.210E-04 0 0.00
  5      50        987      3  541400 5.265E-05 0 0.00
  5      50        988      3  541410 2.334E-06 0 0.00
  5      50        989      3  541420 5.980E-07 0 0.00
  5      50        990      3  541430 2.331E-08 0 0.00
  5      50        991      3  541440 1.362E-08 0 0.00
  5      50        992      3  541450 1.187E-09 0 0.00
  5      50        993      3  541460 8.547E-11 0 0.00
  5      50        994      3  541470 2.126E-12 0 0.00
  5      50        995      3  551320 3.159E-05 0 0.00
  5      50        996      3  551330 4.076E+01 0 0.00
  5      50        997      3  551340 4.190E-01 0 0.00
  5      50        998      3  551341 1.477E-04 0 0.00
  5      50        999      3  551350 1.148E+01 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:04
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                  CARD IMAGE
UNIT    UNIT     NUMBER
  5      50        1000      3  551351 6.397E-06 0 0.00
  5      50        1001      3  551360 3.921E-02 0 0.00
  5      50        1002      3  551370 4.199E+01 0 0.00
  5      50        1003      3  551380 1.462E-02 0 0.00
  5      50        1004      3  551381 5.372E-05 0 0.00
  5      50        1005      3  551390 4.083E-03 0 0.00
```

5	50	1006	3	551400	4.199E-04	0	0.00
5	50	1007	3	551410	1.263E-04	0	0.00
5	50	1008	3	551420	5.477E-06	0	0.00
5	50	1009	3	551430	2.874E-06	0	0.00
5	50	1010	3	551440	4.432E-07	0	0.00
5	50	1011	3	551450	6.196E-08	0	0.00
5	50	1012	3	551460	3.052E-09	0	0.00
5	50	1013	3	551470	1.488E-09	0	0.00
5	50	1014	3	551480	3.449E-11	0	0.00
5	50	1015	3	551500	2.008E-14	0	0.00
5	50	1016	3	561320	2.940E-06	0.	0.00
5	50	1017	3	561340	1.375E-02	0	0.00
5	50	1018	3	561350	1.411E-05	0	0.00
5	50	1019	3	561351	1.208E-07	0	0.00
5	50	1020	3	561360	1.163E-01	0	0.00
5	50	1021	3	561361	1.758E-09	0	0.00
5	50	1022	3	561370	1.613E-01	0	0.00
5	50	1023	3	561371	6.508E-06	0	0.00
5	50	1024	3	561380	4.574E+01	0	0.00
5	50	1025	3	561390	3.665E-02	0	0.00
5	50	1026	3	561400	7.500E+00	0	0.00
5	50	1027	3	561410	7.494E-03	0	0.00
5	50	1028	3	561420	4.278E-03	0	0.00
5	50	1029	3	561430	8.191E-05	0	0.00
5	50	1030	3	561440	5.244E-05	0	0.00
5	50	1031	3	561450	1.476E-05	0	0.00
5	50	1032	3	561460	1.939E-06	0	0.00
5	50	1033	3	561470	4.528E-07	0	0.00
5	50	1034	3	561480	2.072E-07	0	0.00
5	50	1035	3	561490	3.572E-09	0	0.00
5	50	1036	3	561500	5.253E-10	0	0.00
5	50	1037	3	561520	6.000E-13	0	0.00
5	50	1038	3	571380	3.308E-04	0	0.00
5	50	1039	3	571390	4.398E+01	0	0.00
5	50	1040	3	571400	9.897E-01	0	0.00
5	50	1041	3	571410	9.714E-02	0	0.00
5	50	1042	3	571420	3.780E-02	0	0.00
5	50	1043	3	571430	5.629E-03	0	0.00
5	50	1044	3	571440	2.427E-04	0	0.00
5	50	1045	3	571450	1.252E-04	0	0.00
5	50	1046	3	571460	2.318E-05	0	0.00
5	50	1047	3	571470	1.355E-05	0	0.00
5	50	1048	3	571480	6.525E-07	0	0.00

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   5      50        1049      3  571490 3.471E-07 0 0.00
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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:04
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE   CARD                                CARD IMAGE
UNIT    UNIT    NUMBER
   5      50        1050      3  571500 1.469E-08 0 0.00
   5      50        1051      3  571510 2.761E-09 0 0.00
   5      50        1052      3  571520 1.044E-10 0 0.00
   5      50        1053      3  571530 1.579E-11 0 0.00
   5      50        1054      3  571540 2.967E-13 0 0.00
   5      50        1055      3  581400 3.578E+01 0 0.00
   5      50        1056      3  581410 1.541E+01 0 0.00
   5      50        1057      3  581420 4.063E+01 0 0.00
   5      50        1058      3  581430 7.996E-01 0 0.00
   5      50        1059      3  581440 3.230E+01 0 0.00
   5      50        1060      3  581450 8.283E-04 0 0.00
   5      50        1061      3  581460 3.076E-03 0 0.00
   5      50        1062      3  581470 1.927E-04 0 0.00
   5      50        1063      3  581480 8.445E-05 0 0.00
   5      50        1064      3  581490 1.061E-06 0 0.00
   5      50        1065      3  581500 4.591E-07 0 0.00
   5      50        1066      3  581510 1.346E-07 0 0.00
   5      50        1067      3  581520 4.255E-07 0 0.00
   5      50        1068      3  581530 9.594E-09 0 0.00
   5      50        1069      3  581540 2.358E-09 0 0.00
   5      50        1070      3  581550 5.624E-11 0 0.00
   5      50        1071      3  581560 8.836E-12 0 0.00
   5      50        1072      3  581570 2.225E-13 0 0.00
   5      50        1073      3  591400 7.503E-10 0 0.00
   5      50        1074      3  591410 2.523E+01 0 0.00
   5      50        1075      3  591420 8.474E-04 0 0.00
   5      50        1076      3  591421 2.301E-06 0 0.00
   5      50        1077      3  591430 7.190E+00 0 0.00
   5      50        1078      3  591440 1.387E-03 0 0.00
   5      50        1079      3  591441 6.840E-06 0 0.00
   5      50        1080      3  591450 9.909E-02 0 0.00
   5      50        1081      3  591460 5.258E-03 0 0.00
   5      50        1082      3  591470 2.031E-03 0 0.00
   5      50        1083      3  591480 2.997E-04 0 0.00
   5      50        1084      3  591490 2.008E-04 0 0.00
   5      50        1085      3  591500 1.112E-05 0 0.00
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  5      50        1086      3  591510 1.923E-06 0 0.00
  5      50        1087      3  591520 1.730E-06 0 0.00
  5      50        1088      3  591530 5.117E-07 0 0.00
  5      50        1089      3  591540 1.965E-08 0 0.00
  5      50        1090      3  591550 5.844E-09 0 0.00
  5      50        1091      3  591560 2.930E-10 0 0.00
  5      50        1092      3  591570 6.651E-11 0 0.00
  5      50        1093      3  591580 2.051E-12 0 0.00
  5      50        1094      3  591590 1.007E-13 0 0.00
  5      50        1095      3  601420 3.021E-02 0 0.00
  5      50        1096      3  601430 3.170E+01 0 0.00
  5      50        1097      3  601440 5.896E+00 0 0.00
  5      50        1098      3  601450 2.732E+01 0 0.00
  5      50        1099      3  601460 2.191E+01 0 0.00
                                                                    PAGE   25
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:04
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                   CARD IMAGE
UNIT    UNIT     NUMBER
  5      50        1100      3  601470 2.587E+00 0 0.00
  5      50        1101      3  601480 1.289E+01 0 0.00
  5      50        1102      3  601490 9.233E-03 0 0.00
  5      50        1103      3  601500 5.574E+00 0 0.00
  5      50        1104      3  601510 5.036E-04 0 0.00
  5      50        1105      3  601520 3.134E-04 0 0.00
  5      50        1106      3  601530 1.784E-05 0 0.00
  5      50        1107      3  601540 4.847E-06 0 0.00
  5      50        1108      3  601550 1.183E-06 0 0.00
  5      50        1109      3  601560 8.530E-07 0 0.00
  5      50        1110      3  601570 1.729E-08 0 0.00
  5      50        1111      3  601580 5.147E-09 0 0.00
  5      50        1112      3  601590 1.014E-10 0 0.00
  5      50        1113      3  601600 1.484E-11 0 0.00
  5      50        1114      3  601610 3.118E-13 0 0.00
  5      50        1115      3  611460 2.665E-05 0 0.00
  5      50        1116      3  611470 1.229E+01 0 0.00
  5      50        1117      3  611480 1.247E-01 0 0.00
  5      50        1118      3  611481 1.067E-01 0 0.00
  5      50        1119      3  611490 2.912E-01 0 0.00
  5      50        1120      3  611500 1.031E-04 0 0.00
  5      50        1121      3  611510 6.935E-02 0 0.00
  5      50        1122      3  611520 1.140E-04 0 0.00
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  5      50        1123      3  611521 3.355E-06 0 0.00
  5      50        1124      3  611530 9.598E-05 0 0.00
  5      50        1125      3  611540 2.456E-05 0 0.00
  5      50        1126      3  611541 2.454E-06 0 0.00
  5      50        1127      3  611550 3.160E-06 0 0.00
  5      50        1128      3  611560 5.547E-07 0 0.00
  5      50        1129      3  611570 1.314E-06 0 0.00
  5      50        1130      3  611580 2.241E-08 0 0.00
  5      50        1131      3  611590 5.580E-09 0 0.00
  5      50        1132      3  611600 2.643E-10 0 0.00
  5      50        1133      3  611610 4.075E-11 0 0.00
  5      50        1134      3  611620 7.958E-13 0 0.00
  5      50        1135      3  621460 1.910E-06 0 0.00
  5      50        1136      3  621470 4.965E-01 0 0.00
  5      50        1137      3  621480 8.069E-01 0 0.00
  5      50        1138      3  621490 5.768E-01 0 0.00
  5      50        1139      3  621500 7.918E+00 0 0.00
  5      50        1140      3  621510 2.263E+00 0 0.00
  5      50        1141      3  621520 3.895E+00 0 0.00
  5      50        1142      3  621530 6.572E-02 0 0.00
  5      50        1143      3  621540 8.773E-01 0 0.00
  5      50        1144      3  621550 1.276E-04 0 0.00
  5      50        1145      3  621560 1.893E-03 0 0.00
  5      50        1146      3  621570 1.653E-05 0 0.00
  5      50        1147      3  621580 4.618E-05 0 0.00
  5      50        1148      3  621590 1.248E-06 0 0.00
  5      50        1149      3  621600 1.045E-06 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:04
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE     CARD                                  CARD IMAGE
UNIT    UNIT      NUMBER
  5      50        1150      3  621610 1.081E-08 0 0.00
  5      50        1151      3  621620 2.907E-09 0 0.00
  5      50        1152      3  621630 5.118E-11 0 0.00
  5      50        1153      3  621640 8.694E-12 0 0.00
  5      50        1154      3  621650 1.302E-13 0 0.00
  5      50        1155      3  631510 2.058E-03 0 0.00
  5      50        1156      3  631520 9.892E-04 0 0.00
  5      50        1157      3  631521 5.210E-06 0 0.00
  5      50        1158      3  631530 1.701E+00 0 0.00
  5      50        1159      3  631540 1.066E-01 0 0.00
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5     50     1160     3  631550 1.791E-01 0 0.00
5     50     1161     3  631560 1.499E-01 0 0.00
5     50     1162     3  631570 2.074E-03 0 0.00
5     50     1163     3  631580 5.161E-05 0 0.00
5     50     1164     3  631590 1.018E-05 0 0.00
5     50     1165     3  631600 2.263E-07 0 0.00
5     50     1166     3  631610 8.216E-08 0 0.00
5     50     1167     3  631620 1.889E-07 0 0.00
5     50     1168     3  631630 2.776E-09 0 0.00
5     50     1169     3  631640 9.702E-11 0 0.00
5     50     1170     3  631650 2.068E-11 0 0.00
5     50     1171     3  641520 2.893E-04 0 0.00
5     50     1172     3  641530 2.006E-05 0 0.00
5     50     1173     3  641540 8.760E-04 0 0.00
5     50     1174     3  641550 1.119E-03 0 0.00
5     50     1175     3  641560 4.072E-01 0 0.00
5     50     1176     3  641570 9.377E-03 0 0.00
5     50     1177     3  641580 2.457E-01 0 0.00
5     50     1178     3  641590 6.411E-04 0 0.00
5     50     1179     3  641600 1.953E-02 0 0.00
5     50     1180     3  641610 4.966E-07 0 0.00
5     50     1181     3  641620 7.279E-07 0 0.00
5     50     1182     3  641630 4.834E-08 0 0.00
5     50     1183     3  641640 2.999E-07 0 0.00
5     50     1184     3  641650 8.792E-09 0 0.00
5     50     1185     3  651590 4.021E-02 0 0.00
5     50     1186     3  651600 2.922E-04 0 0.00
5     50     1187     3  651610 1.266E-03 0 0.00
5     50     1188     3  651620 5.380E-07 0 0.00
5     50     1189     3  651621 2.874E-07 0 0.00
5     50     1190     3  651630 6.526E-07 0 0.00
5     50     1191     3  651640 4.988E-08 0 0.00
5     50     1192     3  651650 4.334E-09 0 0.00
5     50     1193     3  661600 1.006E-04 0 0.00
5     50     1194     3  661610 7.937E-03 0 0.00
5     50     1195     3  661620 5.518E-03 0 0.00
5     50     1196     3  661630 2.710E-03 0 0.00
5     50     1197     3  661640 1.124E-03 0 0.00
5     50     1198     3  661650 1.960E-06 0 0.00
5     50     1199     3  661651 8.290E-09 0 0.00
```


ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04
LISTING OF INPUT DATA ON UNIT = 5

```
INPUT   WRITE    CARD                                    CARD IMAGE
UNIT    UNIT     NUMBER
   5      50       1200      3  661660 2.365E-05 0 0.00
   5      50       1201      3  671650 9.208E-04 0 0.00
   5      50       1202      3  671660 8.360E-06 0 0.00
   5      50       1203      3  671661 1.000E-06 0 0.00
   5      50       1204      3  681660 3.742E-04 0 0.00
   5      50       1205      3  681670 1.741E-04 0 0.00
   5      50       1206      3  681671 4.976E-13 0 0.00
   5      50       1207      3  681680 2.780E-05 0 0.00
   5      50       1208      0
                                                                  OUTPUT UNIT =  6                    PAGE   28
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:04
NEUTRON YIELD PER NEUTRON-INDUCED FISSION
```

NUCLIDE	YIELD	NUCLIDE	YIELD	NUCLIDE	YIELD	NUCLIDE	YIELD	NUCLIDE	YIELD	NUCLIDE	YIELD
832090	0.0000	882230	0.0000	882260	0.0000	882280	0.0000	892270	0.0000	902270	0.0000
902280	0.0000	902290	2.0490	902300	0.0000	902320	2.4180	902330	0.0000	902340	0.0000
912310	0.0000	912320	0.0000	912330	2.6630	912341	0.0000	912340	0.0000	922300	0.0000
922310	0.0000	922320	0.0000	922330	2.4990	922340	2.6310	922350	2.4210	922360	2.7340
922370	0.0000	922380	2.8010	922390	0.0000	922400	0.0000	932360	0.0000	932370	3.0050
932380	0.0000	932390	0.0000	942360	2.8700	942370	0.0000	942380	2.8330	942390	2.8750
942400	3.1350	942410	2.9340	942420	3.2800	942430	0.0000	952410	3.2770	952421	3.1620
952420	3.3600	952430	3.7320	952441	0.0000	952440	0.0000	962420	3.7460	962430	3.4340
962440	3.7250	962450	3.8320	962460	3.8580	962470	3.5920	962480	3.7960	962490	0.0000
972490	3.7600	982490	4.0620	982500	3.9700	982510	4.1400	982520	4.1260	982530	4.1500
982540	0.0000	992530	0.0000	992541	0.0000	992540	0.0000	0	0.0000	0	0.0000

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                                                                  OUTPUT UNIT =  6                    PAGE   29
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:04
SPONTANEOUS FISSION NEUTRON YIELD, NEUT/FISSION
```

NUCLIDE		NUCLIDE		NUCLIDE		NUCLIDE		NUCLIDE		NUCLIDE	
922350	1.6950	922360	1.6500	922370	1.8720	922380	2.0000	922390	2.0480	932361	1.7900
932360	1.7830	932370	1.8730	932380	1.9630	932390	2.0530	942360	2.2200	942370	1.8860
942380	2.2800	942390	2.2400	942400	2.1600	942410	2.2500	942420	2.1500	942430	2.4300
942440	2.3000	952400	2.2900	952410	2.3830	952420	2.4750	952421	2.5900	952430	2.5200
952440	2.6570	952441	2.6650	962410	2.5000	962420	2.5900	962430	2.6870	962440	2.7600
962450	2.8720	962460	3.0000	962480	3.3200	962500	3.5600	972490	3.7200	982490	3.4400
982500	3.5600	982520	3.7250	982540	3.9000	992530	3.9200	992540	4.0400	992550	4.1600

THE REMAINING NEUTRON YIELDS ARE CALCULATED FROM THE EQUATION: NEUT/FISS=(2.84+0.1225*(AT WT-244)

OUTPUT UNIT = 6 PAGE 30

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

INDIVIDUAL ELEMENT FRACTIONAL RECOVERIES

ELEMENT	SET NUMBER 1	SET NUMBER 2	SET NUMBER 3	SET NUMBER 4	SET NUMBER 5	SET NUMBER 6	SET NUMBER 7	SET NUMBER 8	SET NUMBER 9	SET NUMBER 10
1	0.0000000	0.0000000	0.0005000	0.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.9000000	1.0000000
2	0.0000000	0.0000000	0.0005000	0.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.0000000	1.0000000
3	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
4	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
5	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
6	0.0000000	0.0000000	0.0005000	0.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.0000000	1.0000000
7	0.0000000	0.0000000	0.0005000	0.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.0000000	1.0000000
8	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
9	0.0000000	0.0010000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
10	0.0000000	0.0000000	0.0005000	0.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.0000000	1.0000000
11	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
12	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
13	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
14	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
15	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
16	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
17	0.0000000	0.0010000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
18	0.0000000	0.0000000	0.0005000	0.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.0000000	1.0000000
19	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
20	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
21	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
22	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
23	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
24	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
25	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
26	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
27	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000

28	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
29	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
30	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
31	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
32	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
33	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
34	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
35	0.0000000	0.0010000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
36	0.0000000	0.0000000	0.0005000	0.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.0000000	1.0000000
37	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
38	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
39	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
40	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
41	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
42	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
43	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
44	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
45	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
46	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
47	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
48	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
49	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000

OUTPUT UNIT = 6

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04
INDIVIDUAL ELEMENT FRACTIONAL RECOVERIES

ELEMENT	SET NUMBER 1	SET NUMBER 2	SET NUMBER 3	SET NUMBER 4	SET NUMBER 5	SET NUMBER 6	SET NUMBER 7	SET NUMBER 8	SET NUMBER 9	SET NUMBER 10
50	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
51	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
52	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
53	0.0000000	0.0010000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
54	0.0000000	0.0000000	0.0005000	0.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.0000000	1.0000000
55	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
56	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
57	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
58	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
59	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
60	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
61	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
62	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
63	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
64	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000

65	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
66	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
67	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
68	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
69	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
70	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
71	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
72	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
73	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
74	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
75	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
76	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
77	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
78	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
79	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
80	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
81	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
82	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
83	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
84	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
85	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
86	0.0000000	0.0000000	0.0005000	0.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.0000000	1.0000000
87	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
88	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
89	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
90	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
91	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
92	0.0000000	1.0000000	0.0005000	0.9990000	1.0000000	0.2000000	0.6000000	1.0000000	0.0000000	1.0000000
93	0.0000000	1.0000000	0.0005000	0.0000000	0.0500000	0.0500000	0.0000000	0.0000000	0.0000000	1.0000000
94	1.0000000	1.0000000	0.0005000	0.9999000	1.0000000	0.0200000	0.0000000	0.0000000	0.0000000	1.0000000
95	0.0000000	1.0000000	0.0005000	0.0000000	0.0010000	0.0010000	0.0000000	0.0000000	0.0000000	1.0000000
96	0.0000000	1.0000000	0.0005000	0.0000000	0.0010000	0.0010000	0.0000000	0.0000000	0.0000000	1.0000000
97	0.0000000	1.0000000	0.0005000	0.0000000	0.0010000	0.0010000	0.0000000	0.0000000	0.0000000	1.0000000
98	0.0000000	1.0000000	0.0005000	0.0000000	0.0010000	0.0010000	0.0000000	0.0000000	0.0000000	1.0000000
99	0.0000000	1.0000000	0.0005000	0.0000000	0.0010000	0.0010000	0.0000000	0.0000000	0.0000000	1.0000000

OUTPUT UNIT = 6

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04
GROUP FRACTIONAL RECOVERIES

GROUP	SET NUMBER 1	SET NUMBER 2	SET NUMBER 3	SET NUMBER 4	SET NUMBER 5	SET NUMBER 6	SET NUMBER 7	SET NUMBER 8	SET NUMBER 9	SET NUMBER 10
1	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.0000000
2	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.0000000	0.0000000

3	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.0000000	0.0000000
4	0.9950000	1.0000000	0.0005000	0.9990000	1.0000000	0.2000000	0.6000000	1.0000000	0.0000000	0.0000000
5	0.0000000	1.0000000	0.0005000	0.0000000	0.0500000	0.0500000	0.0000000	0.0000000	0.0000000	0.0000000
6	0.9950000	1.0000000	0.0005000	0.9999000	1.0000000	0.0200000	0.0000000	0.0000000	0.0000000	0.0000000
7	0.0000000	1.0000000	0.0005000	0.0000000	0.0010000	0.0010000	0.0000000	0.0000000	0.0000000	0.0000000
8	0.0000000	1.0000000	0.0005000	0.0000000	0.0010000	0.0010000	0.0000000	0.0000000	0.0000000	0.0000000
9	0.0000000	1.0000000	0.0005000	0.0000000	0.0010000	0.0010000	0.0000000	0.0000000	0.0000000	0.0000000
10	0.0000000	1.0000000	0.0005000	0.0000000	0.0010000	0.0010000	0.0000000	0.0000000	0.0000000	0.0000000
11	0.0000000	1.0000000	0.0005000	0.0000000	0.0010000	0.0010000	0.0000000	0.0000000	0.0000000	0.0000000
12	0.0000000	0.0010000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.0000000
13	0.0000000	0.0000000	0.0005000	0.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.0000000	0.0000000
14	0.0000000	0.0000000	0.0005000	0.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.9000000	0.0000000
15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
16	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
17	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
18	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
19	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

OUTPUT UNIT = 6 PAGE 33

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04
ELEMENT ASSIGNMENTS TO FRACTIONAL RECOVERY GROUPS

ELEM	GROUP	ELEM	GROUP	ELEM	GROUP	ELEM	GROUP	ELEM	GROUP	ELEM	GROUP	ELEM	GROUP	ELEM	GROUP	ELEM	GROUP
1	14	2	13	3	1	4	1	5	1	6	13	7	13	8	1	9	12
10	13	11	1	12	1	13	1	14	1	15	1	16	1	17	12	18	13
19	1	20	1	21	1	22	1	23	1	24	1	25	1	26	1	27	1
28	1	29	1	30	1	31	1	32	1	33	1	34	1	35	12	36	13
37	1	38	1	39	1	40	1	41	1	42	1	43	1	44	1	45	1
46	1	47	1	48	1	49	1	50	1	51	1	52	1	53	12	54	13
55	1	56	1	57	1	58	1	59	1	60	1	61	1	62	1	63	1
64	1	65	1	66	1	67	1	68	1	69	1	70	1	71	1	72	1
73	1	74	1	75	1	76	1	77	1	78	1	79	1	80	1	81	1
82	1	83	1	84	1	85	1	86	13	87	1	88	1	89	1	90	2
91	3	92	4	93	5	94	6	95	7	96	8	97	9	98	10	99	11

OUTPUT UNIT = 6 PAGE 34

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04
CHEMICAL TOXICITIES, GRAMS PER M**3 WATER

NUCLIDE	TOXICITY	NUCLIDE	TOXICITY	NUCLIDE	TOXICITY	NUCLIDE	TOXICITY	NUCLIDE	TOXICITY	NUCLIDE	TOXICITY
1	3.50E+03	2	2.00E-01	3	5.00E+00	4	1.00E+00	5	1.00E+00	6	4.00E+02
7	1.00E-02	8	9.45E+05	9	1.00E+00	10	1.00E+00	11	1.00E+03	12	1.00E+01
13	1.00E-02	14	5.00E+00	15	1.00E-02	16	5.00E+01	17	1.50E-01	18	1.00E+01

19	1.00E+03	20	3.00E+01	21	5.00E-01	22	1.00E-01	23	1.00E-01	24	2.00E-02
25	1.00E-02	26	5.00E-02	27	5.00E-02	28	5.00E-02	29	1.00E-02	30	5.00E-02
31	2.00E-01	32	5.00E-01	33	1.00E-02	34	1.00E-02	35	3.00E+00	36	4.00E+01
37	5.00E+01	38	1.00E+01	39	1.00E-03	40	1.00E+00	41	2.00E-02	42	5.00E-01
43	1.00E+02	44	1.00E+00	45	5.00E-02	46	5.00E-02	47	1.00E-03	48	1.00E-02
49	2.00E-02	50	5.00E-02	51	5.00E-02	52	2.00E-01	53	1.00E+01	54	1.50E+02
55	5.00E+00	56	5.00E-01	57	1.00E+00	58	2.00E+00	59	1.00E+00	60	2.00E-01
61	1.00E+00	62	2.00E-01	63	2.00E-01	64	2.00E-01	65	5.00E-01	66	1.00E+00
67	1.00E+00	68	1.00E-01	69	2.00E-01	70	1.00E-01	71	1.00E-01	72	5.00E-02
73	1.00E+00	74	1.00E+02	75	1.00E+01	76	1.00E+00	77	8.00E-01	78	3.00E-01
79	2.00E-02	80	2.00E-03	81	5.00E-03	82	1.00E-02	83	1.00E-01	84	2.00E-01
85	1.00E+01	86	5.00E+02	87	5.00E+00	88	1.00E-03	89	2.00E-02	90	5.00E-04
91	5.00E-03	92	5.00E-01	93	8.00E-03	94	8.00E-04	95	4.00E-02	96	5.00E-01
97	5.00E-03	98	1.00E-02	99	1.00E-02						

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                                                                    OUTPUT UNIT =  6                                  PAGE   35
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:04
   1    0 TIT  *  TIT     PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL                                    *
   2    0 RDA  *  RDA                                                                             *
   3    0 RDA  *  RDA     READ DATA LIBRARIES                                                     *
   4    0 RDA  *  RDA                                                                             *
   5    0 LIP  *  LIP     0 0 0                                                                   *
   6    0 LIB  *  LIB     0 1 2 3 0 0 0 9 3 0 0 0                                                 *
   7    0 PHO  *  PHO     101 102 103 10                                                          *
   8    0 RDA  *  RDA                                                                             *
   9    0 RDA  *  RDA     INPUT PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL                             *
  10    0 RDA  *  RDA                                                                             *
  11    0 BAS  *  BAS     PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL                                   *
  12    0 INP  *  INP    -1  1 -1 -1  1  1                                                         *
  13    0 MOV  *  MOV    -1  1  0  1                                                               *
  14    0 RDA  *  RDA                                                                             *
  15    0 RDA  *  RDA     DECAY PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL                             *
  16    0 RDA  *  RDA                                                                             *
  17    0 DEC  *  DEC     0.250     1  2  5  2                                                     *
  18    0 DEC  *  DEC     0.500     2  3  5  0                                                     *
  19    0 PRO  *  PRO               3  3 -1  1                                                     *
  20    0 DEC  *  DEC     0.750     3  4  5  0                                                     *
  21    0 DEC  *  DEC     1.000     4  5  5  0                                                     *
  22    0 DEC  *  DEC     5.000     5  6  5  0                                                     *
  23    0 DEC  *  DEC     10.00     6  7  5  0                                                     *
  24    0 DEC  *  DEC     20.00     7  8  5  0                                                     *
  25    0 DEC  *  DEC     30.00     8  9  5  0                                                     *
  26    0 DEC  *  DEC     40.00     9 10  5  0                                                     *
  27    0 DEC  *  DEC     51.80    10 11  5  0                                                     *
```

```
28    0 RDA  *  RDA                                                                  *
29    0 RDA  *  RDA     GENERATE OUTPUT                                              *
30    0 RDA  *  RDA                                                                  *
31    0 CUT  *  CUT     5 1.0E-10  7 1.0E-10  9 1.0E-10  23 1.0E-10  27 1.0  -1      *
32    0 OPTL *  OPTL    8 8 8 8 7  8 7 8 7 8  8 8 8 8 8  8 8 8 8 8  8 8 8 8          *
33    0 OPTA *  OPTA    8 8 8 8 7  8 7 8 7 8  8 8 8 8 8  8 8 8 8 8  8 8 8 8          *
34    0 OPTF *  OPTF    8 8 8 8 7  8 7 8 7 8  8 8 8 8 8  8 8 8 8 8  8 8 8 8          *
35    0 HED  *  HED      1  0.00 Y                                                   *
36    0 HED  *  HED      2  0.25 Y                                                   *
37    0 HED  *  HED      3  0.50 Y                                                   *
38    0 HED  *  HED      4  0.75 Y                                                   *
39    0 HED  *  HED      5  1.00 Y                                                   *
40    0 HED  *  HED      6  5.00 Y                                                   *
41    0 HED  *  HED      7  10.0 Y                                                   *
42    0 HED  *  HED      8  20.0 Y                                                   *
43    0 HED  *  HED      9  30.0 Y                                                   *
44    0 HED  *  HED     10  40.0 Y                                                   *
45    0 HED  *  HED     11  51.8 Y                                                   *
46    0 OUT  *  OUT     11  1 -1  0                                                  *
47    0 END  *  END                                                                  *

SUM OF YIELDS FOR EACH FISSILE ISOTOPE:                          0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000

ISOTOPES FOR WHICH YIELDS ARE EXPLICITLY ACCOUNTED FOR:      0      0      0      0      0      0      0      0
                                                                          OUTPUT UNIT =  6                          PAGE   36
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:04

    *  PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL
    POWER= 1.00000E+00 MW,  BURNUP= 1.00000E+00 MWD,  FLUX= 1.00E+00 N/CM**2-SEC

                                        REACTIVITY AND BURNUP DATA
                        BASIS=  PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

            0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
TIME, SEC   0.00E+00  7.89E+06  1.58E+07  2.37E+07  3.16E+07  1.58E+08  3.16E+08  6.31E+08  9.47E+08  1.26E+09  1.63E+09
NEUT. FLUX  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00
SP POW,MW   0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00
BURNUP,MWD  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00
K INFINITY   0.00000   0.00000   0.00000   0.00000   0.00000   0.00000   0.00000   0.00000   0.00000   0.00000   0.00000
NEUT PRODN  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00
NEUT DESTN  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00
TOT BURNUP  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00
AVG N FLUX  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00
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AVG SP POW  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00


SIZE OF MMAX(I): MMAX= 1  #= 950    MMAX= 2  #= 290    MMAX= 3  #=  47    MMAX= 4  #=   3    MMAX= 5  #=   0    MMAX= 6  #=   0
MMAX= 7  #=   0    MMAX= 8  #=   0    MMAX= 9  #=   0    MMAX=10  #=   0    MMAX=11  #=   0    MMAX=12  #=   0

THE NUMBER OF NON-ZERO TERMS IN A=1656
THE NUMBER OF NON-ZERO FISSION PRODUCT YIELDS=   2
ILITE= 688     IACT= 129     IFP= 879     ITOT=1696
THE NUMBER OF NON-ZERO NATURAL ABUNDANCES= 437
THE NUMBER OF NON-ZERO PHOTON YIELDS= 7903
THE MAXIMUM NUMBER OF TERMS IN AP=  438
                                                                    OUTPUT UNIT =  6                          PAGE   37
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:04

    *  PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL
                                                                                          ACTIVATION PRODUCTS
    POWER= 1.00000E+00 MW,  BURNUP= 1.00000E+00 MWD,  FLUX= 1.00E+00 N/CM**2-SEC

                    5 SUMMARY TABLE:  CONCENTRATIONS, GRAMS
                              PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL
            0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
 H  1       3.836E+00 3.836E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 H  2       1.560E-03 1.560E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 H  3       1.546E-05 1.524E-05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
HE  4       1.237E-02 1.237E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
LI  6       3.608E-04 3.608E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
LI  7       1.710E-02 1.710E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
BE  9       9.999E+00 9.999E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
BE 10       2.099E-05 2.099E-05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 B 10       2.865E-02 2.865E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 B 11       2.362E-01 2.362E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 C 12       5.633E+02 5.633E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 C 13       6.850E+00 6.850E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 C 14       2.739E-02 2.739E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 N 14       8.052E+01 8.052E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 N 15       3.180E-01 3.180E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
NE 21       1.276E-05 1.276E-05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
NE 22       1.917E-05 1.917E-05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
NA 23       1.468E+00 1.468E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
MG 24       2.063E+01 2.063E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
MG 25       2.721E+00 2.721E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
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MG 26	3.115E+00	3.115E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AL 27	8.054E+02	8.054E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SI 28	1.207E+02	1.207E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SI 29	6.331E+00	6.331E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SI 30	4.346E+00	4.346E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
P 31	7.758E-05	7.770E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TI 46	2.906E-01	2.906E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TI 47	2.682E-01	2.682E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TI 48	2.707E+00	2.707E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TI 49	2.057E-01	2.057E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TI 50	1.992E-01	1.992E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
V 50	8.964E-03	8.964E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
V 51	3.668E+00	3.672E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CR 50	5.770E+00	5.770E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CR 51	4.443E-03	4.525E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CR 52	1.158E+02	1.158E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CR 53	1.342E+01	1.342E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CR 54	3.424E+00	3.424E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MN 54	5.662E-04	4.624E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MN 55	2.860E+01	2.860E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MN 56	1.052E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FE 54	2.518E+01	2.518E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FE 55	1.981E-02	1.853E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FE 56	4.126E+02	4.126E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FE 57	1.001E+01	1.001E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FE 58	1.355E+00	1.356E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FE 59	1.208E-04	2.960E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 58	1.500E-03	6.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 59	7.276E-01	7.277E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 60	7.043E-03	6.816E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 58	9.450E+01	9.450E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 38

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

ACTIVATION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
NI 59	9.690E-02	9.690E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 60	3.740E+01	3.740E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

NI 61	1.662E+00	1.662E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 62	5.304E+00	5.304E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 63	1.500E-02	1.497E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 64	1.417E+00	1.417E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 63	5.387E+01	5.387E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 64	3.047E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 65	2.475E+01	2.475E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 64	1.505E-02	1.516E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 66	9.059E-03	9.059E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 87	6.002E-05	6.002E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 88	5.500E-03	5.500E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 89	2.089E-04	5.965E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 89	2.093E-04	3.586E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 90	5.847E-04	5.211E-12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 91	5.922E-04	2.008E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 90	3.660E+04	3.660E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 91	8.046E+03	8.046E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 92	1.243E+04	1.243E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 93	9.131E-01	9.131E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 94	1.292E+04	1.292E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 95	1.640E-01	6.098E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 96	2.122E+03	2.122E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 97	5.795E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 95	6.009E-02	5.125E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 95M	6.603E-05	2.552E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 97	4.120E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 92	5.205E-01	5.205E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 93	1.372E-05	1.372E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 94	3.341E-01	3.341E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 95	6.386E-01	7.505E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 96	6.163E-01	6.163E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 97	9.322E-01	9.384E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 98	9.032E-01	9.032E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 99	1.291E-05	1.304E-15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO100	3.669E-01	3.669E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC 99	3.950E-05	4.111E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU101	8.424E-05	8.426E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD106	3.511E-03	3.511E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD108	2.448E-03	2.448E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD110	3.492E-02	3.492E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD111	3.613E-02	3.613E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD112	6.892E-02	6.892E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD113	1.301E-05	1.301E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

CD114	1.187E-01	1.187E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD116	2.217E-02	2.217E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN113	8.764E-03	1.247E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN114M	2.085E-05	5.807E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN115	5.054E-06	8.590E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN112	1.002E+01	1.002E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 39

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

ACTIVATION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
SN113	8.758E-03	5.054E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN114	6.844E+00	6.844E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN115	3.889E+00	3.889E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN116	1.527E+02	1.527E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN117	8.130E+01	8.131E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN117M	1.204E-02	1.312E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN118	2.569E+02	2.569E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN119	9.172E+01	9.173E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN119M	3.595E-02	2.777E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN120	3.484E+02	3.484E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN121	5.581E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN121M	2.060E-04	2.053E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN122	5.029E+01	5.029E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN123	2.745E-03	1.682E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN124	6.220E+01	6.220E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN125	1.808E-03	2.534E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB121	3.466E-02	3.522E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB122	1.127E-05	7.450E-16	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB123	9.753E-04	2.039E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB125	2.157E-02	2.197E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE122	1.386E-04	1.496E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE125	7.268E-04	2.018E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE125M	1.290E-04	2.392E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE126	9.296E-06	1.260E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LU175	5.984E-04	1.113E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF174	2.143E-02	2.143E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF175	8.644E-04	3.500E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

HF176	7.295E-01	7.295E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF177	1.986E+00	1.986E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF178	4.361E+00	4.361E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF179	2.317E+00	2.317E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF180	5.255E+00	5.255E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF181	7.537E-03	1.694E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF182	2.677E-05	2.677E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TA181	9.124E-03	1.498E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TA182	7.187E-05	4.145E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W180	4.633E-03	4.633E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W181	2.716E-05	1.611E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W182	9.318E-01	9.318E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W183	5.384E-01	5.384E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W184	1.133E+00	1.133E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W185	5.223E-04	2.249E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W186	1.037E+00	1.037E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W187	3.458E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W188	2.291E-05	9.203E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RE185	3.229E-04	6.203E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RE187	2.425E-02	2.460E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
OS186	8.636E-06	9.924E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
OS188	2.658E-04	2.848E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PB204	1.012E-01	1.012E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PB205	1.488E-05	1.488E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 40

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

ACTIVATION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
PB206	1.752E+00	1.752E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PB207	1.627E+00	1.627E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PB208	3.861E+00	3.861E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SUMTOT	7.569E+04	7.569E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL	7.569E+04	7.569E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 41

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

ACTIVATION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
H	3.838E+00	3.838E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HE	1.237E-02	1.237E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LI	1.746E-02	1.746E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BE	9.999E+00	9.999E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
B	2.649E-01	2.649E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
C	5.702E+02	5.702E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
N	8.084E+01	8.084E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NE	3.193E-05	3.193E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NA	1.468E+00	1.468E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MG	2.647E+01	2.647E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AL	8.054E+02	8.054E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SI	1.314E+02	1.314E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
P	7.758E-05	7.770E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TI	3.671E+00	3.671E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
V	3.677E+00	3.681E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CR	1.384E+02	1.384E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MN	2.860E+01	2.860E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FE	4.492E+02	4.492E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO	7.361E-01	7.351E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI	1.404E+02	1.404E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU	7.862E+01	7.862E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN	2.411E-02	2.422E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR	5.769E-03	5.620E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y	1.388E-03	5.594E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR	7.212E+04	7.212E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB	6.057E-02	5.128E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO	4.312E+00	4.430E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC	3.951E-05	4.111E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU	8.424E-05	8.426E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD	2.868E-01	2.868E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN	8.795E-03	1.249E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN	1.064E+03	1.064E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB	5.722E-02	5.923E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE	1.004E-03	2.420E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LU	5.985E-04	1.113E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF	1.468E+01	1.467E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

TA	9.201E-03	1.502E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W	3.646E+00	3.645E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RE	2.458E-02	2.522E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
OS	2.744E-04	2.947E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PB	7.341E+00	7.341E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SUMTOT	7.569E+04	7.569E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL	7.569E+04	7.569E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

CUMULATIVE TABLE TOTALS

AP+FP	7.569E+04	7.569E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ACT+FP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AP+ACT+FP	7.569E+04	7.569E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 42

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

ACTIVATION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
H 3	1.493E-01	1.472E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
H 4	5.485E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HE 6	1.204E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LI 8	2.212E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BE 8	2.078E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BE 10	4.692E-07	4.692E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
B 12	3.282E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
C 14	1.221E-01	1.221E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
C 15	3.644E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
N 16	1.327E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
F 20	3.116E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NE 23	3.980E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NA 24	3.425E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NA 24M	6.903E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NA 25	1.887E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MG 27	8.166E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AL 28	1.943E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AL 29	5.129E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AL 30	4.974E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

SI 31	4.625E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
P 32	9.204E-05	1.101E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CA 45	1.856E-04	1.259E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SC 46	3.806E-02	1.788E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SC 47	1.092E-01	6.831E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SC 48	1.051E-02	9.157E-18	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SC 49	8.392E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SC 50	1.731E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TI 51	1.573E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
V 52	9.704E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
V 53	2.182E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
V 54	2.204E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CR 51	4.107E+02	4.183E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CR 55	6.577E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MN 54	4.383E+00	3.579E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MN 56	2.284E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MN 57	6.131E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MN 58	2.031E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FE 55	4.955E+01	4.635E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FE 59	5.944E+00	1.456E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 58	4.773E+01	1.952E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 60	7.967E+00	7.709E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 60M	1.187E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 61	1.628E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 62	5.710E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 59	7.342E-03	7.342E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 63	9.256E-01	9.238E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 65	9.384E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 66	4.793E-05	3.986E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 64	1.175E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 66	2.533E+02	3.992E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 67	2.424E-04	5.250E-15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

ACTIVATION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
ZN 65	8.513E-03	6.567E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

SR 89	6.072E+00	1.734E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 90	2.837E-06	2.820E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 91	1.670E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 93	5.769E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 89M	1.530E-04	5.950E-13	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 90	3.182E+02	2.837E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 91	1.453E+01	4.927E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 92	1.880E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 93	5.768E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 94	1.194E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 96	7.679E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 89	1.531E-04	5.959E-13	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 93	2.295E-03	2.295E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 95	3.525E+03	1.311E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 97	1.108E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 92	2.975E-02	5.870E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 93M	1.806E-05	4.544E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 95	2.351E+03	2.005E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 95M	2.516E+01	9.723E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 96	1.543E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 97	1.108E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 97M	1.049E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 98	6.404E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 93M	8.854E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 93	1.508E-05	1.508E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 99	6.194E+00	6.258E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO101	1.543E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC 99	6.699E-07	6.972E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC100	9.043E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC101	1.542E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG108	8.246E-05	3.838E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG109M	2.273E-03	1.983E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG110	9.143E-05	4.811E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD107	8.638E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD109	2.273E-03	1,983E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD111M	1.535E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD115	1.905E+00	8.761E-13	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD115M	1.188E-01	2.874E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD117	6.182E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD117M	2.166E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD119	1.433E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD121	4.360E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN113M	8.800E+01	5.078E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

IN114	2.028E+00	1.286E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN114M	4.825E-01	1.344E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN116	7.246E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN116M	1.202E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN117	8.737E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN117M	5.847E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN118	1.892E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 44

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

ACTIVATION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
IN119	1.340E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN119M	1.433E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN121	3.575E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN113	8.796E+01	5.075E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN113M	8.740E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN117M	9.599E+02	1.046E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN119M	1.611E+02	1.244E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN121	5.396E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN121M	1.218E-02	1.214E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN123	2.257E+01	1.383E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN123M	2.132E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN125	1.960E+02	2.747E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN125M	1.580E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB122	4.469E+00	2.954E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB122M	3.888E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB124	2.469E-02	8.629E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB124M	2.140E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB125	2.228E+01	2.270E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB126	2.783E-01	1.686E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB126M	3.471E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE123M	4.806E-04	2.832E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE125M	2.324E+00	4.311E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE127	9.119E-05	8.192E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE127M	1.495E-06	8.363E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LU176M	1.620E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LU177	5.967E-03	9.006E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

LU177M	2.768E-06	1.840E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF175	9.218E+00	3.732E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF178M	1.986E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF179M	2.353E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF180M	5.133E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF181	1.283E+02	2.883E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TA182	4.486E-01	2.587E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TA182M	1.345E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TA183	6.626E-01	2.701E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W181	1.618E-01	9.595E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W183M	6.634E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W185	4.911E+00	2.114E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W185M	9.413E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W187	2.426E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W188	2.294E-01	9.215E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RE186	2.563E-01	1.350E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RE188	5.156E+00	9.310E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RE188M	4.820E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RE189	1.463E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PB209	2.357E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SUMTOT	5.091E+04	3.767E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL	5.091E+04	3.767E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 45

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

ACTIVATION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

? SUMMARY TABLE: RADIOACTIVITY, CURIES
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
H	2.041E-01	1.472E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HE	1.204E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LI	2.212E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BE	2.078E+02	4.692E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
B	3.282E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
C	1.222E-01	1.221E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
N	1.327E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
F	3.116E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NE	3.980E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NA	4.134E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

MG	8.166E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AL	1.943E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SI	4.625E+00	1.473E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
P	9.204E-05	1.101E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CA	1.856E-04	1.259E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SC	1.663E-01	1.788E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TI	1.573E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
V	9.707E+01	1.603E-15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CR	4.173E+02	4.183E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MN	2.288E+03	3.579E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FE	5.549E+01	4.781E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO	1.746E+02	2.723E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI	1.032E+01	9.312E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU	1.429E+03	5.290E-15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN	8.513E-03	6.567E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR	7.748E+00	1.734E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y	3.528E+02	4.927E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR	1.461E+04	1.311E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB	2.395E+04	2.015E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO	7.746E+00	1.508E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC	1.551E+00	6.972E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG	2.448E-03	1.984E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD	2.115E+00	3.073E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN	9.077E+01	5.105E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN	2.213E+03	1.997E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB	2.713E+01	2.271E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE	2.325E+00	4.311E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LU	1.679E-01	2.740E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF	2.515E+03	3.256E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TA	1.113E+00	2.587E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W	2.485E+02	2.302E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RE	1.023E+01	9.310E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PB	2.357E-03	8.653E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SUMTOT	5.091E+04	3.767E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL	5.091E+04	3.767E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

CUMULATIVE TABLE TOTALS

AP+FP	5.091E+04	3.767E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ACT+FP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AP+ACT+FP	5.091E+04	3.767E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

ACTIVATION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
H 3	5.025E-06	4.955E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HE 6	1.119E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LI 8	8.246E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BE 8	1.170E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
B 12	2.601E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
C 14	3.581E-05	3.581E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
C 15	6.201E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
N 16	5.749E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
F 20	1.299E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NE 23	4.878E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NA 24	9.492E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NA 24M	1.931E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NA 25	2.165E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MG 27	7.711E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AL 28	3.484E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AL 29	7.147E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AL 30	1.687E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SI 31	1.635E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
P 32	9.329E-07	1.116E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CA 45	8.494E-08	5.760E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SC 46	4.787E-04	2.249E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SC 47	1.752E-04	1.096E-12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SC 48	2.223E-04	1.937E-19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SC 49	9.989E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SC 50	4.953E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TI 51	1.151E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
V 52	1.446E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
V 53	2.635E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
V 54	9.539E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CR 51	8.813E-02	8.976E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CR 55	4.293E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MN 54	2.182E-02	1.782E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MN 56	3.413E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MN 57	4.256E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

MN 58	4.811E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FE 55	1.674E-03	1.566E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FE 59	4.601E-02	1.127E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 58	2.855E-01	1.167E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 60	1.228E-01	1.189E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 60M	4.436E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 61	5.271E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 62	1.083E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 59	2.916E-07	2.916E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 63	9.327E-05	9.310E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 65	6.570E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 64	2.181E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 66	1.734E+00	2.733E-19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 67	3.892E-07	8.430E-18	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 65	2.979E-05	2.298E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 89	2.099E-02	5.994E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 90	3.293E-09	3.273E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 47

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

ACTIVATION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
SR 91	1.338E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 93	8.740E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 89M	8.312E-07	3.234E-15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 90	1.764E+00	1.572E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 91	5.219E-02	1.770E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 92	1.892E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 93	4.315E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 94	1.990E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 96	1.761E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 89	1.146E-06	4.458E-15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 93	2.667E-07	2.667E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 95	1.785E+01	6.639E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 97	5.775E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 92	2.663E-04	5.254E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 93M	3.200E-09	8.051E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 95	1.128E+01	9.617E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

NB 95M	3.496E-02	1.351E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 96	2.565E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 97	7.377E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 97M	4.619E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 98	7.904E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 93M	1.239E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 99	1.989E-02	2.010E-12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO101	1.762E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC100	7.961E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC101	7.403E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG108	3.070E-07	1.429E-12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG109M	1.172E-06	1.022E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG110	6.568E-07	3.457E-11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG110M	7.782E-09	6.041E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD107	6.180E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD109	2.641E-07	2.304E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD111M	3.602E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD115	6.048E-03	2.781E-15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD115M	4.432E-04	1.072E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD117	4.452E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD117M	1.760E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD119	1.571E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD121	7.224E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN113M	2.050E-01	1.183E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN114	9.660E-03	6.126E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN114M	6.847E-04	1.907E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN116	5.936E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN116M	1.978E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN117	3.936E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN117M	2.208E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN118	2.284E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN119	1.072E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN119M	1.211E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN121	4.305E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN113	1.465E-02	8.454E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 48

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

ACTIVATION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS

PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
SN113M	4.108E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN117M	1.780E+00	1.940E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN119M	8.325E-02	6.430E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN121	6.525E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN121M	2.441E-05	2.433E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN123	7.049E-02	4.319E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN123M	7.768E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN125	1.299E+00	1.821E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN125M	1.063E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB122	2.665E-02	1.762E-12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB122M	3.733E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB124	3.279E-04	1.146E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB124M	5.503E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB125	6.966E-02	7.096E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB126	5.141E-03	3.116E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB126M	4.420E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE123M	7.000E-07	4.125E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE125M	1.954E-03	3.623E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE127	1.231E-07	1.106E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LU176M	1.258E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LU177	6.438E-06	9.715E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LU177M	2.228E-08	1.481E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF175	2.267E-02	9.178E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF178M	1.350E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF179M	5.271E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF180M	3.475E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF181	5.735E-01	1.289E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TA182	3.994E-03	2.303E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TA182M	4.010E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TA183	4.203E-03	1.713E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W181	4.631E-05	2.747E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W183M	1.022E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W185	3.697E-03	1.592E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W185M	1.099E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W187	1.100E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W188	1.372E-04	5.511E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RE186	5.479E-04	2.887E-11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RE188	2.558E-02	4.619E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RE188M	4.914E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RE189	8.758E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PB209	2.710E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

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SUMTOT      2.996E+02 1.704E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00

TOTAL       2.996E+02 1.704E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
                                                                                  OUTPUT UNIT =  6                        PAGE   49
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:04

    *  PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL
                                                                                                   ACTIVATION PRODUCTS
    POWER= 1.00000E+00 MW,  BURNUP= 1.00000E+00 MWD,  FLUX= 1.00E+00 N/CM**2-SEC

                    9 SUMMARY TABLE:  THERMAL POWER,  WATTS
                          PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL
            0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
 H          5.025E-06 4.955E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
HE          1.119E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
LI          8.246E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
BE          1.170E-01 5.632E-10 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 B          2.601E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 C          3.643E-05 3.581E-05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 N          5.749E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 F          1.299E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
NE          4.878E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
NA          9.706E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
MG          7.711E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
AL          3.485E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SI          1.635E-02 1.034E-13 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 P          9.329E-07 1.116E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CA          8.494E-08 5.760E-08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SC          9.811E-04 2.249E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
TI          1.151E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 V          1.446E+00 1.767E-17 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CR          1.311E-01 8.976E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
MN          3.415E+01 1.782E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
FE          4.769E-02 1.284E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CO          4.543E-01 2.356E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
NI          6.579E-02 9.339E-05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CU          3.915E+00 8.703E-18 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
ZN          2.979E-05 2.298E-05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SR          3.446E-02 5.994E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 Y          2.025E+00 1.770E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
ZR          7.561E+01 6.639E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
NB          1.313E+02 9.630E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
MO          3.764E-02 1.415E-09 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
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TC	7.483E-03	3.496E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG	2.143E-06	1.028E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD	6.999E-03	1.074E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN	2.171E-01	1.191E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN	5.005E+00	1.372E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB	1.023E-01	7.111E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE	1.955E-03	3.624E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LU	1.264E-03	1.578E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF	6.037E+00	1.380E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TA	8.200E-03	2.303E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W	1.105E+00	1.674E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RE	3.105E-02	4.619E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PB	2.710E-06	2.515E-14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SUMTOT	2.996E+02	1.704E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL	2.996E+02	1.704E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

CUMULATIVE TABLE TOTALS

AP+FP	2.996E+02	1.704E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ACT+FP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AP+ACT+FP	2.996E+02	1.704E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 50

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

ACTINIDES+DAUGHTERS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
HE 4	1.004E-04	2.676E-04	0.000E+00	1.583E-04	3.171E-04	2.937E-03	6.387E-03	1.371E-02	2.138E-02	2.926E-02	3.866E-02
PB208	0.000E+00	3.361E-10	0.000E+00	5.037E-12	3.983E-11	1.707E-08	8.728E-08	2.898E-07	4.934E-07	6.804E-07	8.792E-07
TH230	6.214E-05	1.104E-04	0.000E+00	2.768E-10	1.107E-09	8.870E-08	3.902E-07	1.602E-06	3.574E-06	6.248E-06	1.023E-05
TH232	5.613E-06	1.063E-05	0.000E+00	5.979E-12	2.392E-11	1.937E-09	8.631E-09	3.635E-08	8.317E-08	1.491E-07	2.513E-07
U232	1.661E-06	1.852E-06	0.000E+00	1.661E-07	3.220E-07	1.829E-06	2.388E-06	2.408E-06	2.208E-06	2.007E-06	1.792E-06
U233	5.939E-05	6.032E-05	0.000E+00	8.057E-13	3.292E-12	2.787E-09	2.489E-08	1.932E-07	6.029E-07	1.312E-06	2.579E-06
U234	6.925E+01	6.925E+01	0.000E+00	7.946E-04	1.588E-03	1.406E-02	2.912E-02	5.749E-02	8.372E-02	1.079E-01	1.342E-01
U235	8.726E+03	8.726E+03	0.000E+00	6.841E-03	1.368E-02	1.231E-01	2.599E-01	5.335E-01	8.069E-01	1.080E+00	1.403E+00
U236	6.889E+02	6.889E+02	0.000E+00	1.644E-03	3.287E-03	2.958E-02	6.243E-02	1.281E-01	1.936E-01	2.592E-01	3.364E-01
U237	1.423E+00	1.207E-04	0.000E+00	2.495E-07	2.465E-07	2.033E-07	1.598E-07	9.877E-08	6.103E-08	3.771E-08	2.137E-08
U238	9.883E+05	9.883E+05	0.000E+00	9.136E-08	1.827E-07	1.644E-06	3.472E-06	7.126E-06	1.078E-05	1.443E-05	1.875E-05

U239	2.683E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NP237	1.244E+01	1.386E+01	0.000E+00	2.139E-05	8.120E-05	5.863E-03	2.407E-02	8.726E-02	1.739E-01	2.743E-01	4.024E-01
NP238	2.633E-02	2.851E-11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NP239	3.864E+01	2.038E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NP240	4.866E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PU236	3.144E-06	3.049E-06	2.869E-06	2.700E-06	2.541E-06	9.607E-07	2.849E-07	2.505E-08	2.202E-09	1.936E-10	1.099E-11
PU238	3.842E-01	4.101E-01	4.096E-01	4.088E-01	4.080E-01	3.953E-01	3.800E-01	3.511E-01	3.245E-01	2.998E-01	2.731E-01
PU239	9.273E+02	9.662E+02	9.662E+02	9.662E+02	9.662E+02	9.661E+02	9.659E+02	9.657E+02	9.654E+02	9.651E+02	9.648E+02
PU240	6.306E+01	6.306E+01	6.306E+01	6.306E+01	6.305E+01	6.303E+01	6.299E+01	6.293E+01	6.286E+01	6.279E+01	6.272E+01
PU241	8.354E+00	8.254E+00	8.155E+00	8.058E+00	7.961E+00	6.567E+00	5.162E+00	3.190E+00	1.971E+00	1.218E+00	6.902E-01
PU242	2.074E-01	2.074E-01	2.074E-01	2.074E-01	2.074E-01	2.074E-01	2.074E-01	2.074E-01	2.074E-01	2.074E-01	2.074E-01
AM241	3.122E-02	1.311E-01	0.000E+00	9.754E-02	1.939E-01	1.582E+00	2.969E+00	4.877E+00	6.007E+00	6.658E+00	7.056E+00
AM242M	1.522E-04	1.520E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AM243	2.243E-03	2.274E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CM242	1.273E-03	9.017E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SUMTOT	9.988E+05	9.988E+05	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03
TOTAL	9.988E+05	9.988E+05	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03

OUTPUT UNIT = 6 PAGE 51

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

ACTINIDES+DAUGHTERS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
HE	1.004E-04	2.676E-04	0.000E+00	1.583E-04	3.171E-04	2.937E-03	6.387E-03	1.371E-02	2.138E-02	2.926E-02	3.866E-02
PB	1.367E-12	3.399E-10	0.000E+00	5.150E-12	4.027E-11	1.709E-08	8.731E-08	2.898E-07	4.935E-07	6.804E-07	8.793E-07
TH	8.170E-05	1.354E-04	0.000E+00	4.755E-10	1.863E-09	1.182E-07	4.525E-07	1.702E-06	3.716E-06	6.451E-06	1.053E-05
U	9.978E+05	9.978E+05	0.000E+00	9.280E-03	1.856E-02	1.668E-01	3.515E-01	7.190E-01	1.084E+00	1.447E+00	1.873E+00
NP	5.111E+01	1.386E+01	0.000E+00	2.139E-05	8.120E-05	5.863E-03	2.407E-02	8.726E-02	1.739E-01	2.743E-01	4.024E-01
PU	9.993E+02	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.036E+03	1.035E+03	1.032E+03	1.031E+03	1.030E+03	1.029E+03
AM	3.368E-02	1.335E-01	0.000E+00	9.754E-02	1.939E-01	1.582E+00	2.969E+00	4.877E+00	6.007E+00	6.658E+00	7.056E+00
CM	1.314E-03	9.420E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SUMTOT	9.988E+05	9.988E+05	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03
TOTAL	9.988E+05	9.988E+05	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03

CUMULATIVE TABLE TOTALS

AP+FP	7.569E+04	7.569E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

ACT+FP	9.988E+05	9.988E+05	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03
AP+ACT+FP	1.075E+06	1.075E+06	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03

OUTPUT UNIT = 6 PAGE 52

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

ACTINIDES+DAUGHTERS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
TL208	6.775E-07	1.795E-06	0.000E+00	5.676E-08	2.161E-07	8.134E-06	1.582E-05	1.868E-05	1.742E-05	1.587E-05	1.416E-05
PB212	1.886E-06	4.995E-06	0.000E+00	1.580E-07	6.014E-07	2.264E-05	4.404E-05	5.198E-05	4.849E-05	4.416E-05	3.942E-05
BI212	1.886E-06	4.995E-06	0.000E+00	1.580E-07	6.014E-07	2.264E-05	4.404E-05	5.198E-05	4.849E-05	4.416E-05	3.942E-05
PO212	1.208E-06	3.201E-06	0.000E+00	1.012E-07	3.853E-07	1.450E-05	2.822E-05	3.331E-05	3.107E-05	2.829E-05	2.526E-05
PO216	1.484E-06	4.995E-06	0.000E+00	1.580E-07	6.014E-07	2.264E-05	4.404E-05	5.198E-05	4.849E-05	4.416E-05	3.942E-05
RN220	1.886E-06	4.995E-06	0.000E+00	1.580E-07	6.014E-07	2.264E-05	4.404E-05	5.198E-05	4.849E-05	4.416E-05	3.942E-05
RA224	1.887E-06	4.995E-06	0.000E+00	1.580E-07	6.014E-07	2.264E-05	4.404E-05	5.198E-05	4.849E-05	4.416E-05	3.942E-05
TH228	1.881E-06	4.986E-06	0.000E+00	1.580E-07	6.006E-07	2.264E-05	4.402E-05	5.198E-05	4.848E-05	4.415E-05	3.942E-05
TH230	1.255E-06	2.229E-06	0.000E+00	5.591E-12	2.235E-11	1.791E-09	7.880E-09	3.235E-08	7.217E-08	1.262E-07	2.067E-07
TH231	3.694E-02	1.887E-02	0.000E+00	1.479E-08	2.959E-08	2.663E-07	5.621E-07	1.154E-06	1.745E-06	2.336E-06	3.033E-06
TH234	3.213E-01	3.316E-01	0.000E+00	1.987E-14	4.982E-14	5.531E-13	1.168E-12	2.397E-12	3.626E-12	4.855E-12	6.305E-12
PA231	1.809E-07	2.840E-07	0.000E+00	3.912E-14	1.578E-13	1.268E-11	5.651E-11	2.380E-10	5.446E-10	9.763E-10	1.646E-09
PA232	3.161E-03	3.310E-24	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PA233	5.845E-03	9.399E-03	0.000E+00	7.390E-09	3.845E-08	4.135E-06	1.697E-05	6.154E-05	1.226E-04	1.934E-04	2.838E-04
PA234M	3.213E-01	3.316E-01	0.000E+00	1.987E-14	4.982E-14	5.531E-13	1.168E-12	2.397E-12	3.626E-12	4.855E-12	6.305E-12
PA234	4.589E-04	4.311E-04	0.000E+00	2.584E-17	6.476E-17	7.190E-16	1.518E-15	3.116E-15	4.713E-15	6.311E-15	8.196E-15
U232	3.557E-05	3.965E-05	0.000E+00	3.557E-06	6.896E-06	3.916E-05	5.114E-05	5.157E-05	4.728E-05	4.298E-05	3.837E-05
U233	5.751E-07	5.842E-07	0.000E+00	7.803E-15	3.188E-14	2.699E-11	2.410E-10	1.871E-09	5.838E-09	1.271E-08	2.497E-08
U234	4.329E-01	4.329E-01	0.000E+00	4.967E-06	9.924E-06	8.792E-05	1.820E-04	3.594E-04	5.233E-04	6.748E-04	8.387E-04
U235	1.887E-02	1.887E-02	0.000E+00	1.479E-08	2.959E-08	2.663E-07	5.621E-07	1.154E-06	1.745E-06	2.336E-06	3.033E-06
U236	4.459E-02	4.459E-02	0.000E+00	1.064E-07	2.128E-07	1.914E-06	4.040E-06	8.289E-06	1.253E-05	1.677E-05	2.177E-05
U237	1.162E+05	9.859E+00	0.000E+00	2.037E-02	2.013E-02	1.660E-02	1.305E-02	8.065E-03	4.984E-03	3.079E-03	1.745E-03
U238	3.324E-01	3.324E-01	0.000E+00	3.073E-14	6.145E-14	5.531E-13	1.168E-12	2.397E-12	3.626E-12	4.855E-12	6.305E-12
U239	8.973E+06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U240	1.191E+01	3.879E-16	0.000E+00	3.879E-16	3.879E-16	3.879E-16	3.879E-16	3.879E-16	3.879E-16	3.879E-16	3.879E-16
NP235	3.130E-05	2.668E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NP236M	1.177E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NP237	8.773E-03	9.776E-03	0.000E+00	1.508E-08	5.726E-08	4.135E-06	1.697E-05	6.154E-05	1.226E-04	1.934E-04	2.838E-04
NP238	6.827E+03	7.391E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NP239	8.967E+06	4.728E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NP240M	1.487E+03	3.879E-16	0.000E+00	3.879E-16	3.879E-16	3.879E-16	3.879E-16	3.879E-16	3.879E-16	3.879E-16	3.879E-16

NP240	5.868E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PU236	1.671E-03	1.621E-03	1.525E-03	1.435E-03	1.350E-03	5.107E-04	1.514E-04	1.331E-05	1.171E-06	1.029E-07	5.842E-09
PU237	4.505E-03	1.124E-03	2.806E-04	7.003E-05	1.748E-05	3.959E-15	3.480E-27	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PU238	6.580E+00	7.024E+00	7.015E+00	7.001E+00	6.988E+00	6.770E+00	6.508E+00	6.014E+00	5.557E+00	5.135E+00	4.678E+00
PU239	5.766E+01	6.008E+01	6.008E+01	6.008E+01	6.008E+01	6.008E+01	6.007E+01	6.005E+01	6.003E+01	6.002E+01	5.999E+01
PU240	1.437E+01	1.437E+01	1.437E+01	1.437E+01	1.437E+01	1.437E+01	1.436E+01	1.434E+01	1.433E+01	1.431E+01	1.430E+01
PU241	8.610E+02	8.507E+02	8.405E+02	8.305E+02	8.205E+02	6.768E+02	5.320E+02	3.288E+02	2.031E+02	1.255E+02	7.113E+01
PU242	7.922E-04	7.922E-04	7.922E-04	7.922E-04	7.922E-04	7.922E-04	7.922E-04	7.922E-04	7.922E-04	7.922E-04	7.922E-04
PU243	8.172E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AM241	1.072E-01	4.502E-01	0.000E+00	3.349E-01	6.656E-01	5.433E+00	1.019E+01	1.674E+01	2.063E+01	2.286E+01	2.423E+01
AM242M	1.480E-03	1.478E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AM242	5.425E+01	1.471E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AM243	4.473E-04	4.536E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AM244M	1.583E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AM244	8.314E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CM242	4.211E+00	2.982E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CM243	1.110E-04	1.103E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CM244	3.101E-03	3.081E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SUMTOT	1.807E+07	9.470E+02	9.220E+02	9.123E+02	9.027E+02	7.635E+02	6.232E+02	4.259E+02	3.037E+02	2.279E+02	1.743E+02
TOTAL	1.807E+07	9.470E+02	9.220E+02	9.123E+02	9.027E+02	7.635E+02	6.232E+02	4.259E+02	3.037E+02	2.279E+02	1.743E+02

OUTPUT UNIT = 6

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

ACTINIDES+DAUGHTERS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
TL	6.779E-07	1.797E-06	0.000E+00	5.676E-08	2.161E-07	8.134E-06	1.582E-05	1.868E-05	1.742E-05	1.587E-05	1.416E-05
PB	1.887E-06	4.998E-06	0.000E+00	1.580E-07	6.014E-07	2.264E-05	4.404E-05	5.199E-05	4.849E-05	4.416E-05	3.942E-05
BI	1.887E-06	4.998E-06	0.000E+00	1.580E-07	6.014E-07	2.264E-05	4.404E-05	5.199E-05	4.849E-05	4.416E-05	3.942E-05
PO	2.693E-06	8.199E-06	0.000E+00	2.592E-07	9.866E-07	3.714E-05	7.226E-05	8.529E-05	7.956E-05	7.245E-05	6.468E-05
RN	1.886E-06	4.998E-06	0.000E+00	1.580E-07	6.014E-07	2.264E-05	4.404E-05	5.199E-05	4.849E-05	4.416E-05	3.942E-05
RA	1.887E-06	4.998E-06	0.000E+00	1.580E-07	6.014E-07	2.264E-05	4.404E-05	5.199E-05	4.849E-05	4.416E-05	3.942E-05
TH	3.583E-01	3.505E-01	0.000E+00	1.728E-07	6.302E-07	2.291E-05	4.459E-05	5.316E-05	5.030E-05	4.661E-05	4.266E-05
PA	3.308E-01	3.414E-01	0.000E+00	7.390E-09	3.845E-08	4.135E-06	1.697E-05	6.154E-05	1.226E-04	1.934E-04	2.838E-04
U	9.089E+06	1.069E+01	0.000E+00	2.038E-02	2.015E-02	1.673E-02	1.329E-02	8.485E-03	5.568E-03	3.816E-03	2.647E-03
NP	8.981E+06	1.028E-02	0.000E+00	1.508E-08	5.726E-08	4.135E-06	1.697E-05	6.154E-05	1.226E-04	1.934E-04	2.838E-04
PU	1.021E+03	9.322E+02	9.220E+02	9.119E+02	9.020E+02	7.580E+02	6.130E+02	4.092E+02	2.831E+02	2.050E+02	1.501E+02
AM	5.602E+01	4.536E-01	0.000E+00	3.349E-01	6.656E-01	5.433E+00	1.019E+01	1.674E+01	2.063E+01	2.286E+01	2.423E+01

CM	4.214E+00	2.986E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SUMTOT	1.807E+07	9.470E+02	9.220E+02	9.123E+02	9.027E+02	7.635E+02	6.232E+02	4.259E+02	3.037E+02	2.279E+02	1.743E+02
TOTAL	1.807E+07	9.470E+02	9.220E+02	9.123E+02	9.027E+02	7.635E+02	6.232E+02	4.259E+02	3.037E+02	2.279E+02	1.743E+02

CUMULATIVE TABLE TOTALS

AP+FP	5.091E+04	3.767E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ACT+FP	1.807E+07	9.470E+02	9.220E+02	9.123E+02	9.027E+02	7.635E+02	6.232E+02	4.259E+02	3.037E+02	2.279E+02	1.743E+02
AP+ACT+FP	1.812E+07	4.714E+03	9.220E+02	9.123E+02	9.027E+02	7.635E+02	6.232E+02	4.259E+02	3.037E+02	2.279E+02	1.743E+02

OUTPUT UNIT = 6 PAGE 54

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

ACTINIDES+DAUGHTERS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
TL208	1.594E-08	4.224E-08	0.000E+00	1.336E-09	5.085E-09	1.914E-07	3.724E-07	4.396E-07	4.100E-07	3.734E-07	3.333E-07
PB212	3.591E-09	9.511E-09	0.000E+00	3.008E-10	1.145E-09	4.310E-08	8.385E-08	9.898E-08	9.232E-08	8.407E-08	7.506E-08
BI212	3.207E-08	8.496E-08	0.000E+00	2.686E-09	1.023E-08	3.850E-07	7.490E-07	8.841E-07	8.246E-07	7.509E-07	6.704E-07
PO212	6.400E-08	1.696E-07	0.000E+00	5.363E-09	2.042E-08	7.686E-07	1.495E-06	1.765E-06	1.646E-06	1.499E-06	1.338E-06
PO216	6.076E-08	2.045E-07	0.000E+00	6.467E-09	2.462E-08	9.267E-07	1.803E-06	2.128E-06	1.985E-06	1.808E-06	1.614E-06
RN220	7.161E-08	1.897E-07	0.000E+00	5.997E-09	2.283E-08	8.595E-07	1.672E-06	1.974E-06	1.841E-06	1.676E-06	1.497E-06
RA224	6.475E-08	1.715E-07	0.000E+00	5.422E-09	2.064E-08	7.770E-07	1.512E-06	1.784E-06	1.664E-06	1.515E-06	1.353E-06
TH228	6.152E-08	1.631E-07	0.000E+00	5.166E-09	1.964E-08	7.403E-07	1.440E-06	1.700E-06	1.585E-06	1.444E-06	1.289E-06
TH230	3.551E-08	6.308E-08	0.000E+00	1.582E-13	6.324E-13	5.069E-11	2.230E-10	9.155E-10	2.042E-09	3.571E-09	5.849E-09
TH231	2.073E-05	1.059E-05	0.000E+00	8.301E-12	1.660E-11	1.494E-10	3.154E-10	6.473E-10	9.791E-10	1.311E-09	1.702E-09
TH234	1.303E-04	1.344E-04	0.000E+00	8.058E-18	2.020E-17	2.242E-16	4.734E-16	9.717E-16	1.470E-15	1.968E-15	2.556E-15
PA231	5.450E-09	8.556E-09	0.000E+00	1.179E-15	4.754E-15	3.820E-13	1.703E-12	7.171E-12	1.641E-11	2.942E-11	4.961E-11
PA232	2.067E-05	2.164E-26	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PA233	1.327E-05	2.133E-05	0.000E+00	1.677E-11	8.728E-11	9.385E-09	3.853E-08	1.397E-07	2.784E-07	4.390E-07	6.440E-07
PA234M	1.588E-03	1.639E-03	0.000E+00	9.822E-17	2.462E-16	2.733E-15	5.770E-15	1.184E-14	1.792E-14	2.399E-14	3.116E-14
PA234	6.592E-06	6.191E-06	0.000E+00	3.711E-19	9.301E-19	1.033E-17	2.180E-17	4.475E-17	6.770E-17	9.064E-17	1.177E-16
U232	1.142E-06	1.273E-06	0.000E+00	1.142E-07	2.214E-07	1.257E-06	1.642E-06	1.656E-06	1.518E-06	1.380E-06	1.232E-06
U233	1.672E-08	1.698E-08	0.000E+00	2.268E-16	9.268E-16	7.847E-13	7.006E-12	5.439E-11	1.697E-10	3.694E-10	7.260E-10
U234	1.247E-02	1.247E-02	0.000E+00	1.431E-07	2.858E-07	2.532E-06	5.242E-06	1.035E-05	1.507E-05	1.943E-05	2.416E-05
U235	4.942E-04	4.942E-04	0.000E+00	3.874E-10	7.748E-10	6.973E-09	1.472E-08	3.021E-08	4.570E-08	6.118E-08	7.944E-08
U236	1.208E-03	1.208E-03	0.000E+00	2.882E-09	5.763E-09	5.186E-08	1.095E-07	2.245E-07	3.395E-07	4.544E-07	5.897E-07
U237	2.199E+02	1.866E-02	0.000E+00	3.855E-05	3.809E-05	3.142E-05	2.469E-05	1.526E-05	9.429E-06	5.827E-06	3.302E-06
U238	8.431E-03	8.431E-03	0.000E+00	7.794E-16	1.559E-15	1.403E-14	2.962E-14	6.079E-14	9.196E-14	1.231E-13	1.599E-13

U239	2.415E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U240	9.767E-03	3.182E-19	0.000E+00	3.182E-19	3.182E-19	3.182E-19	3.182E-19	3.182E-19	3.182E-19	3.182E-19	3.182E-19
NP235	1.818E-09	1.550E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NP236M	9.303E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NP237	2.681E-04	2.988E-04	0.000E+00	4.609E-10	1.750E-09	1.264E-07	5.188E-07	1.881E-06	3.748E-06	5.912E-06	8.673E-06
NP238	3.270E+01	3.540E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NP239	2.168E+04	1.143E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NP240M	8.617E+00	2.248E-18	0.000E+00	2.248E-18	2.248E-18	2.248E-18	2.248E-18	2.248E-18	2.248E-18	2.248E-18	2.248E-18
NP240	6.219E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PU236	5.816E-05	5.640E-05	5.307E-05	4.994E-05	4.700E-05	1.777E-05	5.270E-06	4.633E-07	4.074E-08	3.582E-09	2.033E-10
PU237	1.661E-06	4.145E-07	1.035E-07	2.582E-08	6.444E-09	1.460E-18	1.283E-30	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PU238	2.181E-01	2.328E-01	2.325E-01	2.320E-01	2.316E-01	2.244E-01	2.157E-01	1.993E-01	1.842E-01	1.702E-01	1.550E-01
PU239	1.777E+00	1.852E+00	1.852E+00	1.852E+00	1.852E+00	1.851E+00	1.851E+00	1.851E+00	1.850E+00	1.850E+00	1.849E+00
PU240	4.476E-01	4.476E-01	4.476E-01	4.476E-01	4.476E-01	4.474E-01	4.471E-01	4.467E-01	4.462E-01	4.457E-01	4.452E-01
PU241	2.669E-02	2.637E-02	2.606E-02	2.575E-02	2.544E-02	2.098E-02	1.649E-02	1.019E-02	6.298E-03	3.892E-03	2.205E-03
PU242	2.340E-05	2.340E-05	2.340E-05	2.340E-05	2.340E-05	2.340E-05	2.340E-05	2.340E-05	2.340E-05	2.339E-05	2.339E-05
PU243	9.432E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AM241	3.561E-03	1.495E-02	0.000E+00	1.112E-02	2.211E-02	1.805E-01	3.386E-01	5.562E-01	6.852E-01	7.594E-01	8.048E-01
AM242M	5.845E-07	5.839E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AM242	6.158E-02	1.669E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AM243	1.438E-05	1.458E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AM244M	4.789E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AM244	4.356E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CM242	1.551E-01	1.099E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CM243	4.071E-06	4.047E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CM244	1.085E-04	1.078E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CM245	7.780E-10	7.780E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SUMTOT	4.616E+04	2.727E+00	2.558E+00	2.568E+00	2.578E+00	2.725E+00	2.869E+00	3.063E+00	3.172E+00	3.229E+00	3.256E+00
TOTAL	4.616E+04	2.727E+00	2.558E+00	2.568E+00	2.578E+00	2.725E+00	2.869E+00	3.063E+00	3.172E+00	3.229E+00	3.256E+00

OUTPUT UNIT = 6

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

ACTINIDES+DAUGHTERS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
TL	1.595E-08	4.224E-08	0.000E+00	1.336E-09	5.085E-09	1.914E-07	3.724E-07	4.396E-07	4.100E-07	3.734E-07	3.333E-07
PB	3.593E-09	9.518E-09	0.000E+00	3.008E-10	1.145E-09	4.310E-08	8.385E-08	9.898E-08	9.232E-08	8.407E-08	7.506E-08
BI	3.209E-08	8.503E-08	0.000E+00	2.686E-09	1.023E-08	3.850E-07	7.490E-07	8.841E-07	8.246E-07	7.510E-07	6.705E-07

PO	1.248E-07	3.742E-07	0.000E+00	1.183E-08	4.504E-08	1.695E-06	3.298E-06	3.893E-06	3.631E-06	3.307E-06	2.952E-06
RN	7.162E-08	1.897E-07	0.000E+00	5.997E-09	2.283E-08	8.595E-07	1.672E-06	1.974E-06	1.841E-06	1.676E-06	1.497E-06
RA	6.477E-08	1.715E-07	0.000E+00	5.422E-09	2.064E-08	7.770E-07	1.512E-06	1.784E-06	1.664E-06	1.516E-06	1.353E-06
TH	1.511E-04	1.453E-04	0.000E+00	5.174E-09	1.966E-08	7.405E-07	1.440E-06	1.701E-06	1.589E-06	1.449E-06	1.297E-06
PA	1.629E-03	1.666E-03	0.000E+00	1.677E-11	8.728E-11	9.385E-09	3.853E-08	1.397E-07	2.784E-07	4.391E-07	6.441E-07
U	2.437E+04	4.126E-02	0.000E+00	3.881E-05	3.860E-05	3.526E-05	3.170E-05	2.752E-05	2.641E-05	2.716E-05	2.936E-05
NP	2.178E+04	3.000E-04	0.000E+00	4.609E-10	1.750E-09	1.264E-07	5.188E-07	1.881E-06	3.748E-06	5.912E-06	8.673E-06
PU	2.564E+00	2.559E+00	2.558E+00	2.557E+00	2.556E+00	2.544E+00	2.530E+00	2.507E+00	2.487E+00	2.469E+00	2.451E+00
AM	7.038E-02	1.497E-02	0.000E+00	1.112E-02	2.211E-02	1.805E-01	3.386E-01	5.562E-01	6.852E-01	7.594E-01	8.048E-01
CM	1.553E-01	1.100E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SUMTOT	4.616E+04	2.727E+00	2.558E+00	2.568E+00	2.578E+00	2.725E+00	2.869E+00	3.063E+00	3.172E+00	3.229E+00	3.256E+00
TOTAL	4.616E+04	2.727E+00	2.558E+00	2.568E+00	2.578E+00	2.725E+00	2.869E+00	3.063E+00	3.172E+00	3.229E+00	3.256E+00

CUMULATIVE TABLE TOTALS

AP+FP	2.996E+02	1.704E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ACT+FP	4.616E+04	2.727E+00	2.558E+00	2.568E+00	2.578E+00	2.725E+00	2.869E+00	3.063E+00	3.172E+00	3.229E+00	3.256E+00
AP+ACT+FP	4.645E+04	1.977E+01	2.558E+00	2.568E+00	2.578E+00	2.725E+00	2.869E+00	3.063E+00	3.172E+00	3.229E+00	3.256E+00

OUTPUT UNIT = 6

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
H 3	1.909E-03	1.882E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LI 6	1.391E-05	1.391E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LI 7	3.525E-07	3.525E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BE 9	6.798E-07	6.798E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BE 10	4.532E-06	4.532E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
C 14	9.165E-07	9.165E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 72	2.230E-05	1.449E-19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 72	6.775E-06	6.306E-20	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 72	7.458E-04	7.749E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 73	5.175E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 73	1.738E-03	1.743E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 74	2.922E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 74	3.576E-03	3.576E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 75	1.480E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

GE 75	6.486E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 75	7.779E-03	7.786E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 76	1.941E-02	1.941E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 76	4.508E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 76	1.451E-05	1.496E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 77	9.770E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 77M	3.049E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 77	9.572E-04	1.095E-20	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 77	4.020E-02	4.126E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 78	7.342E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 78	7.791E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 78	8.419E-02	8.434E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 79	1.326E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 79	1.974E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 79	2.185E-01	2.185E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 79M	8.536E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 79	5.120E-07	1.095E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 80	1.658E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 80	1.352E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 80	4.941E-01	4.941E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 80	4.291E-06	4.302E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 81	9.157E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 81	4.316E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 81	1.576E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 81M	1.409E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 81	8.536E-01	8.538E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 81	1.620E-07	1.620E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 82	3.900E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 82	2.858E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 82M	6.642E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 82	1.322E+00	1.322E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 82	1.546E-04	3.191E-23	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 82M	1.544E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 82	3.988E-03	4.143E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 83	1.205E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 83	3.476E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 83	1.784E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
SE 83M	1.484E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 83	2.997E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 83	2.085E+00	2.090E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 83M	2.295E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 84	1.193E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 84	1.237E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 84	1.220E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 84M	5.604E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 84	4.114E+00	4.115E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 85	2.661E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 85	1.516E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 85M	5.345E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 85	1.357E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 85	1.048E+00	1.034E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 85M	1.286E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 85	3.916E+00	3.943E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 86	1.336E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 86	3.256E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 86M	2.683E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 86	7.884E+00	7.884E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 86	4.924E-04	1.656E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 86	9.230E-04	1.399E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 87	3.512E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 87	7.619E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 87	7.400E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 87	1.017E+01	1.018E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 87	2.699E-05	2.702E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 88	3.698E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 88	2.538E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 88	2.361E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 88	2.493E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 88	1.461E+01	1.464E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 89	5.256E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 89	5.561E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 89	2.793E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 89	9.532E+00	2.723E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 89	9.705E+00	1.652E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 90	1.257E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 90	9.494E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

RB 90	4.655E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 90M	1.694E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 90	2.311E+01	2.297E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 90	5.908E-03	5.761E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 90M	2.492E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 90	1.196E-01	2.569E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 91	1.595E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 91	1.933E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 91	2.163E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 91	1.335E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 91	1.302E+01	4.462E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 91M	6.756E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 58

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
ZR 91	1.118E+01	1.988E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 92	1.930E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 92	1.442E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 92	4.029E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 92	5.276E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 92	2.550E+01	2.559E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 93	4.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 93	1.421E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 93	2.045E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 93	1.683E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 93	2.813E+01	2.830E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 93	2.750E-07	4.816E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 93M	2.130E-06	5.129E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 94	3.421E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 94	3.217E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 94	5.232E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 94	2.774E+01	2.775E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 94	1.205E-05	1.205E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 95	2.431E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 95	1.044E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 95	3.051E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

ZR 95	1.672E+01	6.219E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 95	6.097E+00	5.221E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 95M	6.787E-03	2.602E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 95	6.571E+00	1.796E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 96	1.130E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 96	6.357E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 96	2.937E+01	2.937E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 96	1.966E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 96	2.273E-02	2.293E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 97	3.030E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 97	4.410E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 97	2.886E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 97	2.065E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 97M	2.698E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 97	2.803E+01	2.834E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 98	5.176E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 98	8.678E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 98	1.481E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 98	1.353E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 98M	1.025E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 98	2.872E+01	2.872E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC 98	1.322E-05	1.322E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 99	1.347E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 99	1.142E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 99	7.015E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 99M	2.408E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 99	1.204E+00	1.216E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC 99	2.852E+01	2.982E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC 99M	9.612E-02	1.069E-11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU 99	1.501E-05	3.927E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 59

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS

PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
Y100	5.839E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR100	3.175E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB100	6.477E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

NB100M	6.504E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO100	3.184E+01	3.184E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC100	9.232E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU100	1.764E-01	1.764E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y101	2.522E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR101	9.773E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB101	3.097E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO101	4.042E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC101	3.926E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU101	2.676E+01	2.677E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR102	4.677E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB102	1.081E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO102	2.756E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC102	2.187E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC102M	7.939E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU102	2.371E+01	2.371E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH102	1.377E-06	1.297E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR103	9.943E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB103	3.616E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO103	2.122E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC103	1.788E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU103	8.690E+00	1.735E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH103	1.041E+01	1.737E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH103M	7.766E-03	1.552E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR104	4.264E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB104	9.832E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO104	2.371E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC104	2.849E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU104	1.362E+01	1.362E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH104	6.083E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH104M	2.712E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD104	3.442E-01	3.442E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB105	5.420E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO105	8.432E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC105	8.980E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU105	3.015E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH105	2.135E-01	5.497E-20	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH105M	2.378E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD105	8.029E+00	8.274E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO106	6.431E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC106	4.030E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU106	4.966E+00	4.182E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH106	9.007E-06	3.931E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

RH106M	5.586E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD106	1.533E+00	2.318E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO107	1.498E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC107	1.509E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU107	2.035E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 60

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
RH107	1.057E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD107	3.400E+00	3.401E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG107	4.998E-08	1.407E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO108	1.412E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC108	1.629E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU108	1.423E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH108	8.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH108M	1.728E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD108	2.171E+00	2.171E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD108	4.250E-07	4.250E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC109	8.596E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU109	1.185E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH109	3.141E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH109M	8.725E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD109	1.711E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD109M	4.913E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG109	1.371E+00	1.388E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG109M	1.398E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU110	2.638E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH110	5.060E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD110	8.137E-01	8.137E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG110	3.805E-07	2.217E-11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG110M	1.885E-03	1.463E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD110	3.880E-02	3.922E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU111	1.426E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH111	7.204E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD111	1.526E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD111M	2.520E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

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AG111      7.138E-02 1.463E-05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
AG111M     7.482E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CD111      4.943E-01 5.659E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
RH112      3.475E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
PD112      5.585E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
AG112      8.721E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CD112      4.118E-01 4.183E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
PD113      6.149E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
AG113      1.175E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
AG113M     4.549E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CD113      4.314E-02 4.431E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CD113M     6.476E-03 6.415E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
IN113      4.790E-05 1.245E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
PD114      7.766E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
AG114      2.459E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CD114      6.408E-01 6.408E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SN114      2.127E-07 2.127E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
RH115      2.119E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
PD115      2.178E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
AG115      5.117E-05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
AG115M     2.752E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CD115      1.035E-02 4.784E-15 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CD115M     1.432E-02 3.464E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
                                                                                  OUTPUT UNIT =  6                      PAGE   61
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:04

    *  PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL
                                                                                                  FISSION PRODUCTS
    POWER= 1.00000E+00 MW,  BURNUP= 1.00000E+00 MWD,  FLUX= 1.00E+00 N/CM**2-SEC

                    5 SUMMARY TABLE:  CONCENTRATIONS, GRAMS
                              PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL
           0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
IN115      2.623E-01 2.840E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
IN115M     8.344E-04 9.782E-10 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SN115      1.115E-02 1.157E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
PD116      6.441E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
AG116      4.017E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
AG116M     2.598E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CD116      2.911E-01 2.911E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
IN116M     2.084E-05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SN116      4.549E-02 4.551E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
PD117      2.225E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
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AG117	1.855E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG117M	1.343E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD117	3.108E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD117M	2.201E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN117	8.085E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN117M	2.709E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN117	2.966E-01	2.975E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN117M	2.575E-06	2.805E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG118	1.298E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD118	1.548E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN118	2.565E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN118	2.990E-01	2.992E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG119	2.739E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD119	1.436E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD119M	4.890E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN119	2.201E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN119M	4.130E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN119	2.924E-01	2.933E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN119M	3.654E-03	2.822E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD120	2.611E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN120	1.158E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN120	3.033E-01	3.033E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD121	6.630E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN121	1.223E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN121M	2.125E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN121	5.251E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN121M	7.678E-05	7.651E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB121	3.104E-01	3.157E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD122	2.829E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN122	5.445E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN122	3.359E-01	3.359E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB122	1.011E-04	6.683E-15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE122	1.219E-03	1.318E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD123	4.210E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN123	2.695E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN123M	8.654E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN123	5.538E-02	3.393E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN123M	1.263E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB123	3.233E-01	3.449E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE123	1.519E-06	1.714E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE123M	4.750E-07	2.799E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
CD124	8.049E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN124	2.355E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN124	4.512E-01	4.512E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB124	6.308E-04	2.204E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE124	3.200E-04	7.304E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN125M	3.650E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN125	3.298E-02	4.641E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN125M	3.828E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB125	5.459E-01	5.441E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE125	1.792E-02	4.999E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE125M	3.188E-03	5.931E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN126	1.560E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN126	8.510E-01	8.510E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB126	2.073E-03	1.260E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB126M	1.245E-06	3.074E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE126	1.320E-02	1.526E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN127M	2.010E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN127	1.522E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN127M	2.288E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB127	1.031E-01	7.574E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE127	9.538E-03	3.367E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE127M	1.568E-01	9.617E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I127	1.406E+00	1.581E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN128	3.716E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN128	1.910E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB128	1.182E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB128M	3.575E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE128	3.383E+00	3.386E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I128	2.467E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE128	4.495E-03	4.497E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN129	1.539E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN129M	6.643E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB129	1.559E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE129	4.020E-03	4.637E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE129M	3.237E-01	4.952E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

I129	5.357E+00	5.651E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE129	7.014E-06	7.075E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN130	2.723E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB130	7.442E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB130M	6.040E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE130	1.118E+01	1.118E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I130	3.585E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I130M	1.690E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE130	2.593E-02	2.629E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN131	7.382E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB131	4.158E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE131	4.670E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE131M	5.106E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I131	2.357E+00	9.254E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE131	1.724E+01	1.974E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE131M	3.519E-02	5.467E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 63

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
SN132	2.807E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB132	3.226E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB132M	3.049E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE132	1.430E+00	5.233E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I132	4.251E-02	1.586E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE132	2.883E+01	3.030E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS132	3.159E-05	1.795E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA132	2.940E-06	3.572E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN133	3.269E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB133	3.511E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE133	3.350E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE133M	1.010E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I133	5.726E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I133M	1.663E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE133	3.350E+00	2.381E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE133M	4.371E-02	2.009E-14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS133	4.076E+01	4.474E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

SB134	4.012E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB134M	3.603E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE134	1.767E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I134	2.699E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I134M	1.433E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE134	5.123E+01	5.127E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS134	4.190E-01	3.854E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS134M	1.477E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA134	1.375E-02	4.754E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB135	4.139E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE135	6.933E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I135	1.716E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE135	6.473E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE135M	1.289E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS135	1.148E+01	1.172E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS135M	6.397E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA135	1.411E-05	1.511E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA135M	1.208E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE136	4.305E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I136	2.929E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I136M	9.776E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE136	7.745E+01	7.745E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS136	3.921E-02	3.129E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA136	1.163E-01	1.552E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE137	1.944E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I137	9.010E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE137	1.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS137	4.199E+01	4.175E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA137	1.613E-01	4.032E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA137M	6.508E-06	6.387E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE138	2.348E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I138	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE138	5.896E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS138	1.462E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
CS138M	5.372E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA138	4.574E+01	4.576E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA138	3.308E-04	3.308E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I139	2.130E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE139	2.210E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS139	4.083E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA139	3.665E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA139	4.398E+01	4.402E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I140	2.317E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE140	5.265E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS140	4.199E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA140	7.500E+00	5.319E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA140	9.897E-01	8.021E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE140	3.578E+01	4.421E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE141	2.334E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS141	1.263E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA141	7.494E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA141	9.714E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE141	1.541E+01	2.215E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR141	2.523E+01	3.853E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE142	5.980E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS142	5.477E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA142	4.278E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA142	3.780E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE142	4.063E+01	4.067E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR142	8.474E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR142M	2.301E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND142	3.021E-02	3.106E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS143	2.874E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA143	8.191E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA143	5.629E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE143	7.996E-01	8.220E-21	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR143	7.190E+00	7.610E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND143	3.170E+01	3.971E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS144	4.432E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA144	5.244E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA144	2.427E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE144	3.230E+01	2.585E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR144	1.387E-03	1.092E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR144M	6.840E-06	5.457E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND144	5.896E+00	1.234E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA145	1.476E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

LA145	1.252E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE145	8.283E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR145	9.909E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND145	2.732E+01	2.742E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA146	1.939E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA146	2.318E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE146	3.076E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR146	5.258E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND146	2.191E+01	2.192E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 65

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
PM146	2.665E-05	2.582E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM146	1.910E-06	2.216E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA147	4.528E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA147	1.355E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE147	1.927E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR147	2.031E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND147	2.587E+00	8.471E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM147	1.229E+01	1.395E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM147	4.965E-01	1.419E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA148	2.072E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA148	6.525E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE148	8.445E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR148	2.997E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND148	1.289E+01	1.289E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM148	1.247E-01	1.697E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM148M	1.067E-01	2.304E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM148	8.069E-01	1.015E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA149	3.471E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE149	1.061E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR149	2.008E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND149	9.233E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM149	2.912E-01	1.124E-13	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM149	5.768E-01	8.774E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE150	4.591E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PR150	1.112E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND150	5.574E+00	5.574E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM150	1.031E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM150	7.918E+00	7.918E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE151	1.346E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR151	1.923E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND151	5.036E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM151	6.935E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM151	2.263E+00	2.328E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU151	2.058E-03	6.546E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE152	4.255E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR152	1.730E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND152	3.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM152	1.140E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM152M	3.355E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM152	3.895E+00	3.895E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU152	9.892E-04	9.767E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU152M	5.210E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD152	2.893E-04	2.965E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR153	5.117E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND153	1.784E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM153	9.598E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM153	6.572E-02	4.901E-16	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU153	1.701E+00	1.767E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD153	2.006E-05	1.544E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND154	4.847E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM154	2.456E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 66

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
PM154M	2.454E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM154	8.773E-01	8.773E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU154	1.066E-01	1.045E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD154	8.760E-04	3.002E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND155	1.183E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM155	3.160E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

SM155	1.276E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU155	1.791E-01	1.731E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD155	1.119E-03	7.274E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND156	8.530E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM156	5.547E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM156	1.893E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU156	1.499E-01	2.351E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD156	4.072E-01	5.567E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM157	1.314E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM157	1.653E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU157	2.074E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD157	9.377E-03	1.147E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM158	4.618E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU158	5.161E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD158	2.457E-01	2.458E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM159	1.248E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU159	1.018E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD159	6.411E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB159	4.021E-02	4.086E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM160	1.045E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU160	2.263E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD160	1.953E-02	1.953E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB160	2.922E-04	1.218E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY160	1.006E-04	2.710E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD161	4.966E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB161	1.266E-03	1.350E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY161	7.937E-03	9.203E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU162	1.889E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD162	7.279E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB162	5.380E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB162M	2.874E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY162	5.518E-03	5.520E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB163	6.526E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY163	2.710E-03	2.711E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD164	2.999E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY164	1.124E-03	1.124E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY165	1.960E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HO165	9.208E-04	9.228E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY166	2.365E-05	1.902E-13	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HO166	8.360E-06	9.320E-14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HO166M	1.000E-06	9.999E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ER166	3.742E-04	4.062E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ER167	1.741E-04	1.741E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

ER168	2.780E-05	2.780E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SUMTOT	1.182E+03	1.182E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL	1.182E+03	1.182E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 67

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
H	1.909E-03	1.882E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LI	1.426E-05	1.426E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BE	5.212E-06	5.212E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
C	9.165E-07	9.165E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN	2.239E-05	1.449E-19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA	1.267E-05	6.306E-20	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE	2.565E-02	2.550E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS	8.849E-03	7.786E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE	2.160E+00	2.160E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR	8.583E-01	8.538E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR	1.518E+01	1.513E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB	1.409E+01	1.412E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR	4.743E+01	4.033E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y	2.297E+01	2.098E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR	1.390E+02	1.374E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB	6.125E+00	5.224E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO	9.640E+01	1.069E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC	2.862E+01	2.982E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU	7.795E+01	7.020E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH	1.063E+01	1.737E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD	1.631E+01	1.732E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG	1.446E+00	1.390E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD	1.952E+00	2.009E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN	2.636E-01	2.841E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN	2.988E+00	2.925E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB	1.309E+00	1.205E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE	1.661E+01	1.479E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I	9.935E+00	7.233E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE	1.783E+02	1.788E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

CS	9.471E+01	9.859E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA	5.358E+01	4.642E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA	4.511E+01	4.403E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE	1.249E+02	1.129E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR	3.253E+01	3.861E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND	1.079E+02	1.199E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM	1.288E+01	1.397E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM	1.690E+01	1.833E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU	2.142E+00	2.054E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD	6.848E-01	8.441E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB	4.177E-02	4.098E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY	1.742E-02	1.883E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HO	9.302E-04	9.238E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ER	5.761E-04	6.081E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SUMTOT	1.182E+03	1.182E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL	1.182E+03	1.182E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

CUMULATIVE TABLE TOTALS

AP+FP	7.687E+04	7.687E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ACT+FP	1.000E+06	1.000E+06	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03
AP+ACT+FP	1.076E+06	1.076E+06	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03	1.038E+03

OUTPUT UNIT = 6 PAGE 68

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
H 3	1.843E+01	1.817E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 72	5.569E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 72	1.043E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 72	1.882E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 72	2.088E+01	1.357E-13	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 72	2.092E+01	1.947E-13	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 73	1.743E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 73	8.719E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 73	2.804E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 73	4.417E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

GA 73	4.554E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 73M	4.557E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 74	3.636E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 74	5.912E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 74	4.112E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 74	8.792E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 74	9.170E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 75	2.396E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 75	4.207E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 75	1.712E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 75	1.954E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 75	1.965E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 75M	8.383E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 76	6.385E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 76	3.386E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 76	3.286E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 76	4.612E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 76	7.066E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 77	1.065E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 77	1.560E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 77	3.766E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 77	8.663E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 77	3.520E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 77M	8.231E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 77	1.004E+03	1.149E-14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 77M	2.494E+00	2.849E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 78	1.225E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 78	5.648E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 78	3.961E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 78	1.619E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 78	2.035E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 78	2.072E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 79	1.422E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 79	2.272E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 79	1.742E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 79	4.406E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 79	5.223E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 79	1.523E-02	1.523E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 79M	5.225E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 80	1.552E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 80	8.771E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
GA 80	1.962E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 80	9.746E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 80	1.156E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 80	1.539E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 80M	9.506E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 81	1.104E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 81	1.904E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 81	1.142E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 81	1.263E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 81	1.879E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 81	1.978E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 81M	5.711E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 82	2.357E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 82	4.106E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 82	1.167E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 82	1.873E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 82M	7.032E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 82	1.674E+02	3.456E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 82M	5.778E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 83	2.147E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 83	1.111E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 83	8.624E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 83	3.501E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 83	1.797E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 83M	2.883E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 83	4.737E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 83M	4.737E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 84	1.201E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 84	2.318E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 84	2.764E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 84	8.394E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 84	8.591E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 84M	2.092E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 85	6.537E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 85	1.741E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

SE 85	5.161E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 85M	3.735E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 85	1.048E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 85	4.113E+02	4.058E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 85M	1.059E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 86	1.228E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 86	9.570E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 86	1.056E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 86	7.769E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 86M	7.825E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 86	4.009E+01	1.348E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 86M	1.565E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 87	1.818E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 87	5.111E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 87	8.136E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 87	1.771E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 70

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
KR 87	2.097E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 87M	3.537E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 88	5.432E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 88	3.259E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 88	3.162E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 88	1.997E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 88	2.963E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 88	2.994E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 89	3.253E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 89	8.991E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 89	1.481E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 89	3.708E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 89	3.884E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 89	2.771E+05	7.914E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 89M	9.025E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 90	2.936E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 90	9.852E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

KR 90	3.684E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 90	3.815E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 90M	8.234E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 90	3.154E+03	3.135E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 90	3.216E+03	3.136E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 90M	2.800E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 91	3.883E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 91	3.297E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 91	2.756E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 91	4.609E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 91	4.841E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 91	3.195E+05	1.095E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 91M	2.809E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 92	1.665E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 92	2.708E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 92	1.287E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 92	3.949E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 92	5.066E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 92	5.081E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 93	5.366E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 93	4.620E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 93	2.973E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 93	5.515E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 93	5.617E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 93	7.071E-02	7.114E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 93M	6.023E-04	1.450E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 94	4.315E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 94	1.865E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 94	1.527E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 94	5.109E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 94	5.482E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 94M	1.903E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 95	2.972E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 95	1.848E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 71

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
RB 95	8.023E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 95	4.770E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 95	5.754E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 95	3.593E+05	1.336E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 95	2.385E+05	2.042E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 95M	2.586E+03	9.915E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 96	1.588E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 96	2.971E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 96	2.114E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 96	3.321E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 96	5.416E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 96	2.750E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 97	1.569E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 97	3.990E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 97	1.763E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 97	4.623E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 97	5.519E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 97	5.554E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 97M	5.232E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 98	1.914E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 98	8.580E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 98	7.013E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 98	3.331E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 98	5.502E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 98	5.565E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 98M	3.820E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 99	8.207E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 99	1.867E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 99	1.920E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 99	5.425E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 99	5.593E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 99M	1.760E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 99	5.777E+05	5.837E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC 99	4.837E-01	5.058E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC 99M	5.057E+05	5.623E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB100	6.810E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR100	3.539E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y100	8.714E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR100	5.047E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB100	3.046E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB100M	3.046E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC100	6.595E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

SR101	5.031E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y101	2.887E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR101	3.309E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB101	4.944E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO101	5.149E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC101	5.149E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR102	4.397E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y102	6.722E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR102	1.808E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 72

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
NB102	3.987E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO102	4.579E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC102	4.583E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC102M	3.366E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH102	1.665E-03	1.568E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR103	1.357E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y103	8.787E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR103	6.156E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB103	2.529E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO103	3.875E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC103	3.919E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU103	2.806E+05	5.601E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH103M	2.527E+05	5.050E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR104	4.965E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y104	6.644E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR104	1.223E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB104	1.067E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO104	2.680E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC104	2.831E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH104	1.561E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH104M	1.130E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y105	3.727E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR105	1.612E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB105	3.237E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

MO105	1.678E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC105	2.011E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU105	2.028E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH105	1.803E+05	4.642E-14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH105M	5.680E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR106	2.399E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB106	8.815E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO106	7.608E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC106	1.160E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU106	1.662E+04	1.400E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH106	3.207E+04	1.400E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH106M	7.510E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR107	1.158E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB107	1.306E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO107	2.472E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC107	5.489E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU107	8.518E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH107	8.563E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD107	1.749E-03	1.750E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD107M	6.161E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR108	3.359E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB108	4.181E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO108	9.837E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC108	3.274E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU108	5.508E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH108	5.558E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH108M	5.101E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 73

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
AG108	1.801E-02	2.881E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR109	2.414E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB109	8.038E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO109	3.688E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC109	1.745E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU109	3.506E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

RH109	3.614E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH109M	1.807E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD109	3.656E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD109M	1.808E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG109M	3.655E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB110	9.559E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO110	9.713E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC110	5.789E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU110	1.692E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH110	1.790E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH110M	9.891E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG110	1.587E+03	9.249E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG110M	8.958E+00	6.954E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB111	8.149E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO111	2.134E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC111	2.500E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU111	9.403E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH111	1.163E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD111	1.175E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD111M	1.294E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG111	1.128E+04	2.311E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG111M	1.170E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD111M	1.727E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO112	3.954E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC112	9.720E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU112	5.439E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH112	7.451E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD112	7.778E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG112	7.798E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO113	2.813E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC113	2.659E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU113	3.445E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH113	6.057E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD113	6.824E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG113	6.151E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG113M	6.884E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD113M	1.405E+00	1.392E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO114	2.887E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC114	6.132E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU114	1.749E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH114	4.117E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD114	5.339E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG114	5.386E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

IN114	1.065E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO115	1.934E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 74

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
TC115	1.299E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU115	8.532E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH115	3.453E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD115	5.625E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG115	4.185E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG115M	1.589E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD115	5.277E+03	2.439E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD115M	3.648E+02	8.824E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN115M	5.290E+03	6.202E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC116	8.064E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU116	1.924E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH116	1.705E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD116	4.476E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG116	2.431E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG116M	2.431E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN116	7.915E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN116M	6.241E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC117	3.460E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU117	3.006E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH117	1.137E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD117	4.293E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG117	2.445E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG117M	2.444E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD117	3.203E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD117M	1.735E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN117	2.954E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN117M	3.742E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN117M	2.053E-01	2.237E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU118	1.900E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH118	1.479E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD118	3.530E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

AG118	3.355E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG118M	2.231E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD118	4.906E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN118	4.907E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN118M	1.182E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH119	9.588E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD119	2.217E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG119	4.330E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD119	2.415E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD119M	2.416E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN119	1.392E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN119M	3.627E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN119M	1.637E+01	1.265E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU120	3.955E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH120	1.787E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD120	1.001E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG120	3.304E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD120	4.834E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN120	2.453E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN120M	2.452E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 75

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
RH121	2.824E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD121	3.937E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG121	2.355E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD121	4.831E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN121	4.074E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN121M	1.001E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN121	5.077E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN121M	4.541E-03	4.526E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH122	3.426E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD122	1.214E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG122	1.482E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD122	4.759E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN122	5.037E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

IN122M	2.798E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB122	4.009E+01	2.650E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB122M	3.700E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH123	2.944E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD123	2.777E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG123	7.863E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD123	4.597E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN123	4.142E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN123M	1.654E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN123	4.553E+02	2.790E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN123M	4.819E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE123M	4.215E-03	2.484E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD124	5.056E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG124	3.522E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD124	4.267E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN124	6.699E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB124	1.104E+01	3.858E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB124M	1.469E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG125	1.036E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD125	2.837E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN125	3.863E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN125M	2.746E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN125	3.575E+03	5.031E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN125M	6.051E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB125	5.639E+02	5.620E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE125M	5.744E+01	1.069E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD126	6.941E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG126	3.134E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD126	2.178E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN126	9.133E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN126	2.415E-02	2.415E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB126	1.734E+02	1.054E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB126M	9.783E+01	2.415E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD127	1.048E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN127	4.901E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN127M	4.907E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN127	1.789E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN127M	8.199E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 76

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
SB127	2.755E+04	2.024E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE127	2.518E+04	8.889E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE127M	1.480E+03	9.075E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG128	1.131E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD128	4.088E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN128	8.856E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN128	4.758E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB128	3.213E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB128M	5.052E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I128	1.451E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD129	1.743E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN129	7.040E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN129	2.992E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN129M	3.875E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB129	8.772E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE129	8.422E+04	9.716E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE129M	9.756E+03	1.493E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I129	9.461E-04	9.980E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD130	1.942E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN130	9.188E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN130	1.059E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB130	2.692E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB130M	1.387E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I130	6.994E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I130M	2.717E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD131	3.053E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN131	3.423E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN131	1.010E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB131	2.596E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE131	2.682E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE131M	4.073E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I131	2.923E+05	1.148E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE131M	2.949E+03	4.582E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD132	2.832E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN132	9.548E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN132	6.000E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB132	1.642E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB132M	1.035E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

TE132	4.344E+05	1.590E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I132	4.390E+05	1.638E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS132	4.829E+00	2.743E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN133	1.010E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN133	1.887E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB133	2.069E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE133	3.806E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE133M	2.579E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I133	6.489E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I133M	1.568E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE133	6.273E+05	4.459E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE133M	1.961E+04	9.009E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN134	5.467E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 77

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
SN134	2.355E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB134	3.072E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB134M	2.836E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE134	5.934E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I134	7.203E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I134M	5.437E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE134M	3.424E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS134	5.424E+02	4.988E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS134M	1.192E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN135	2.813E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB135	2.036E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE135	3.019E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I135	6.028E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE135	1.654E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE135M	1.175E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS135	1.322E-02	1.350E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS135M	1.682E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA135M	9.777E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN136	2.385E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB136	3.879E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

TE136	1.701E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I136	2.929E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I136M	1.764E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS136	2.875E+03	2.294E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA136M	4.737E+02	3.780E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB137	5.395E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE137	4.576E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I137	3.017E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE137	5.679E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS137	3.654E+03	3.633E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA137M	3.502E+03	3.437E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB138	6.623E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE138	1.171E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I138	1.563E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE138	5.672E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS138	6.189E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS138M	2.525E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB139	4.851E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE139	2.254E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I139	7.206E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE139	4.543E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS139	5.878E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA139	5.997E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE140	2.767E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I140	2.172E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE140	3.121E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS140	5.306E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA140	5.472E+05	3.880E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA140	5.510E+05	4.466E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR140	2.974E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE141	1.236E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 78

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
I141	3.576E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE141	1.086E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

CS141	4.044E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA141	5.473E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA141	5.495E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE141	4.391E+05	6.311E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE142	1.240E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I142	4.672E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE142	3.896E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS142	2.561E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA142	5.296E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA142	5.402E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR142	9.780E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR142M	2.088E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I143	2.904E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE143	6.133E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS143	1.334E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA143	4.754E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA143	5.289E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE143	5.312E+05	5.461E-15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR143	4.842E+05	5.125E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I144	2.333E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE144	1.068E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS144	3.406E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA144	3.737E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA144	4.756E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE144	1.031E+05	8.250E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR144	1.048E+05	8.251E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR144M	1.241E+03	9.901E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE145	1.027E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS145	8.612E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA145	1.853E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA145	3.360E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE145	3.582E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR145	3.582E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE146	7.050E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS146	1.242E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA146	6.813E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA146	2.159E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE146	2.791E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR146	2.799E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM146	1.187E-02	1.150E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE147	6.188E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS147	2.048E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA147	1.561E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

LA147	1.040E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE147	2.114E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR147	2.166E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND147	2.079E+05	6.806E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM147	1.140E+04	1.294E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS148	1.305E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 79

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
BA148	2.678E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA148	3.828E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE148	1.498E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR148	1.656E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM148	2.049E+04	2.790E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM148M	2.281E+03	4.925E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA149	2.949E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA149	9.180E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE149	8.037E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR149	1.102E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND149	1.123E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM149	1.154E+05	4.455E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS150	1.215E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA150	2.200E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA150	1.704E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE150	3.454E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR150	6.748E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM150	8.041E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA151	2.164E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE151	1.006E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR151	3.593E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND151	5.059E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM151	5.072E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM151	5.956E+01	6.128E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA152	5.902E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA152	2.506E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE152	2.252E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PR152	1.544E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND152	3.373E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM152	3.441E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM152M	5.536E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU152	1.711E-01	1.690E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU152M	1.153E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA153	2.665E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE153	4.103E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR153	4.875E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND153	1.949E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM153	2.185E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM153	2.884E+04	2.151E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD153	7.077E-02	5.448E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA154	1.240E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE154	4.812E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR154	1.102E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND154	8.881E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM154	1.071E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM154M	1.665E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU154	2.879E+01	2.821E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE155	5.748E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR155	2.250E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND155	3.306E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM155	6.294E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 80

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
SM155	6.975E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU155	8.333E+01	8.053E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE156	5.502E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR156	4.153E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND156	1.055E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM156	3.064E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM156	4.047E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU156	8.266E+03	1.296E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE157	4.422E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PR157	7.053E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND157	2.996E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM157	1.389E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM157	2.476E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU157	2.725E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR158	5.573E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND158	4.661E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM158	4.212E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM158	1.250E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU158	1.339E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR159	2.276E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND159	5.112E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM159	9.364E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM159	5.462E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU159	6.654E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD159	6.796E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND160	4.936E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM160	1.871E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM160	2.112E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU160	3.130E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB160	3.300E+00	1.375E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND161	3.933E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM161	2.405E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM161	5.884E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU161	1.369E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD161	1.568E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB161	1.484E+02	1.583E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM162	1.386E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM162	1.034E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU162	4.878E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD162	8.452E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB162	8.363E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB162M	2.494E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM163	1.383E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU163	1.295E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD163	3.608E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB163	3.862E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM164	1.409E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU164	3.077E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD164	1.586E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB164	1.907E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM165	9.603E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
EU165	5.552E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD165	6.002E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB165	9.052E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY165	1.585E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY165M	7.525E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY166	5.481E+00	4.408E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HO166	5.891E+00	6.568E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ER167M	1.462E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SUMTOT	5.364E+07	9.388E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL	5.364E+07	9.388E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 82

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
H	1.843E+01	1.817E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO	7.675E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI	2.822E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU	1.867E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN	1.762E+03	1.357E-13	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA	8.679E+03	1.947E-13	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE	5.365E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS	1.595E+05	1.149E-14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE	4.762E+05	1.523E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR	1.056E+06	3.456E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR	1.870E+06	4.058E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB	2.564E+06	1.348E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR	3.412E+06	8.227E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Y	4.450E+06	1.126E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR	3.096E+06	1.336E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB	4.362E+06	2.052E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO	2.489E+06	5.837E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC	2.593E+06	5.058E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU	7.135E+05	7.001E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH	7.981E+05	6.449E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD	1.082E+05	1.750E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG	1.150E+05	9.357E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD	5.048E+04	8.963E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN	1.062E+05	6.202E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN	4.507E+05	2.967E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB	1.154E+06	5.669E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE	2.628E+06	4.367E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I	3.800E+06	1.148E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE	2.992E+06	5.028E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS	2.609E+06	4.155E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA	3.349E+06	7.321E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA	3.351E+06	4.466E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE	2.200E+06	1.456E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR	1.847E+06	8.862E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND	4.376E+05	6.806E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM	2.816E+05	1.346E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM	4.448E+04	6.128E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU	1.363E+04	2.385E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD	9.790E+02	5.448E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB	3.046E+02	1.391E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY	2.885E+01	4.408E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HO	5.891E+00	1.861E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ER	1.462E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SUMTOT	5.364E+07	9.388E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL	5.364E+07	9.388E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

CUMULATIVE TABLE TOTALS

AP+FP	5.369E+07	9.426E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ACT+FP	7.171E+07	9.397E+05	9.220E+02	9.123E+02	9.027E+02	7.635E+02	6.232E+02	4.259E+02	3.037E+02	2.279E+02	1.743E+02
AP+ACT+FP	7.176E+07	9.435E+05	9.220E+02	9.123E+02	9.027E+02	7.635E+02	6.232E+02	4.259E+02	3.037E+02	2.279E+02	1.743E+02

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
H 3	6.205E-04	6.119E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 72	2.832E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 72	1.983E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 72	5.232E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 72	3.160E-02	2.053E-16	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 72	3.977E-01	3.702E-15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 73	7.876E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 73	2.778E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 73	5.748E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 73	6.427E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 73	2.060E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 73M	1.810E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 74	2.056E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 74	1.489E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 74	1.366E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 74	5.649E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 74	2.360E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 75	9.118E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 75	1.124E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 75	3.327E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 75	1.599E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 75	5.427E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 75M	6.907E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 76	1.995E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 76	1.330E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 76	4.284E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 76	1.331E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 76	6.257E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 77	4.665E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 77	5.106E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 77	9.436E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 77	1.314E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 77	3.616E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 77M	5.045E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 77	1.415E+00	1.618E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 77M	3.695E-03	4.222E-20	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

NI 78	4.577E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 78	2.541E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 78	7.265E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 78	4.400E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 78	6.213E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 78	3.238E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 79	5.511E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 79	7.086E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 79	3.616E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 79	5.599E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 79	2.721E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 79	3.791E-06	3.792E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 79M	2.942E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 80	8.773E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 80	2.113E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 84

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
GA 80	6.539E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 80	5.945E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 80	2.144E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 80	7.313E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 81	5.963E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 81	8.200E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 81	3.032E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 81	2.431E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 81	1.859E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 81	7.189E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 81M	3.487E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 82	9.402E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 82	1.847E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 82	1.420E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 82	3.874E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 82M	2.378E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 82	2.758E+00	5.693E-19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 82M	2.676E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

ZN 83	1.047E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
GA 83	4.703E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
GE 83	2.577E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
AS 83	5.523E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SE 83	3.197E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SE 83M	3.778E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
BR 83	9.226E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
KR 83M	1.145E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
GA 84	6.081E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
GE 84	5.956E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
AS 84	9.608E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SE 84	4.672E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
BR 84	1.546E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
BR 84M	4.543E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
GE 85	2.352E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
AS 85	5.197E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SE 85	1.026E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SE 85M	7.736E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
BR 85	6.464E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
KR 85	6.162E-01	6.079E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
KR 85M	2.592E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
GE 86	4.046E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
AS 86	3.861E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SE 86	1.527E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
BR 86	2.346E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
BR 86M	2.204E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
RB 86	1.811E-01	6.092E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
RB 86M	5.194E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
GE 87	7.679E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
AS 87	1.787E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SE 87	2.044E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
BR 87	4.055E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
KR 87	2.635E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y

SR 87M	8.113E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 88	2.093E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 88	1.527E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 88	6.985E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 88	2.994E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 88	4.073E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 88	4.763E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 89	1.414E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 89	2.716E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 89	4.212E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 89	7.029E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 89	7.134E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 89	9.578E+02	2.736E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 89M	4.905E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 90	7.987E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 90	3.314E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 90	5.658E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 90	9.094E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 90M	2.183E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 90	3.660E+00	3.639E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 90	1.782E+01	1.738E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 90M	1.134E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 91	1.506E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 91	1.054E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 91	5.392E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 91	1.111E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 91	3.880E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 91	1.147E+03	3.932E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 91M	9.285E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 92	5.499E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 92	1.074E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 92	2.432E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 92	8.740E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 92	4.610E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 92	5.114E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 93	2.088E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 93	1.314E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 93	6.066E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 93	8.356E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 93	4.202E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 93	8.215E-06	8.265E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 94	2.163E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 94	4.276E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

RB 94	4.286E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 94	6.396E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 94	9.134E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 95	1.321E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 95	6.451E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 95	2.150E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 95	9.335E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 95	7.619E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 86

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
ZR 95	1.820E+03	6.770E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 95	1.144E+03	9.797E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 95M	3.593E+00	1.378E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 96	8.821E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 96	8.547E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 96	7.733E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 96	4.867E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 96	1.242E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 96	4.572E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 97	6.505E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 97	1.237E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 97	4.375E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 97	8.486E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 97	2.876E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 97	3.697E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 97M	2.303E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 98	6.474E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 98	3.461E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 98	1.324E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 98	9.453E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 98	2.945E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 98	6.868E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 98M	7.348E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 99	2.930E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 99	5.760E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Y 99	4.253E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 99	7.762E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 99	5.162E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 99M	2.263E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 99	1.855E+03	1.875E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC 99	2.426E-04	2.536E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC 99M	4.262E+02	4.740E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB100	3.415E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR100	8.316E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y100	3.009E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR100	4.096E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB100	7.186E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB100M	6.290E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC100	5.805E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR101	1.817E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y101	7.894E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR101	6.126E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB101	6.538E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO101	5.882E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC101	2.471E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR102	1.272E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y102	2.683E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR102	2.326E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB102	9.867E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO102	8.441E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC102	4.727E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 87

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
TC102M	6.388E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH102	2.124E-05	2.001E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR103	5.647E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y103	2.885E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR103	1.510E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB103	4.675E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO103	5.270E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

TC103	2.850E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU103	9.386E+02	1.874E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH103M	5.817E+01	1.162E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR104	1.758E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y104	3.003E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR104	2.159E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB104	3.223E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO104	1.644E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC104	6.156E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH104	9.227E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH104M	9.380E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y105	1.468E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR105	4.787E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB105	7.590E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO105	3.099E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC105	2.218E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU105	1.423E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH105	2.467E+02	6.353E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH105M	4.340E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR106	5.631E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB106	3.138E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO106	8.095E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC106	2.673E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU106	9.883E-01	8.322E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH106	3.076E+02	1.342E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH106M	1.431E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR107	4.116E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB107	3.846E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO107	5.412E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC107	9.113E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU107	7.331E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH107	4.096E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD107M	7.669E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR108	9.668E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB108	1.738E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO108	1.569E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC108	8.968E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU108	1.685E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH108	7.683E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH108M	9.613E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR109	9.816E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB109	2.809E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO109	1.004E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

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TC109      3.852E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
                                                                                OUTPUT UNIT =  6                          PAGE   88
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:04

    *  PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL
                                                                                                   FISSION PRODUCTS
    POWER= 1.00000E+00 MW,  BURNUP= 1.00000E+00 MWD,  FLUX= 1.00E+00 N/CM**2-SEC

                    9 SUMMARY TABLE:  THERMAL POWER,  WATTS
                              PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL
            0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
RU109       4.950E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
RH109       2.731E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
RH109M      2.678E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
PD109       9.722E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
PD109M      2.015E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
AG109M      1.884E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
NB110       4.438E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
MO110       2.020E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
TC110       1.935E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
RU110       1.543E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
RH110       3.834E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
RH110M      1.487E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
AG110       1.140E+01 6.644E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
AG110M      1.496E-01 1.161E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
NB111       3.272E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
MO111       6.931E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
TC111       6.770E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
RU111       1.807E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
RH111       1.568E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
PD111       6.250E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
PD111M      4.511E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
AG111       2.526E+01 5.177E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
AG111M      4.510E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
MO112       1.016E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
TC112       3.774E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
RU112       7.112E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
RH112       1.799E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
PD112       7.146E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
AG112       9.675E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
MO113       1.069E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
TC113       8.553E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
RU113       8.259E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
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RH113	1.082E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD113	8.034E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG113	3.839E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG113M	4.819E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD113M	2.365E-03	2.343E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO114	8.893E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC114	2.719E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU114	3.055E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH114	1.186E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD114	3.713E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG114	6.545E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO115	8.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC115	4.870E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU115	2.473E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH115	7.748E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD115	8.599E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG115	4.279E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG115M	1.797E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD115	1.675E+01	7.742E-12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 89

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
CD115M	1.360E+00	3.291E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN115M	1.055E+01	1.237E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC116	3.949E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU116	4.254E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH116	5.797E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD116	4.163E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG116	4.933E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG116M	5.777E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN116	6.484E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN116M	1.027E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC117	1.440E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU117	1.037E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH117	3.092E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD117	8.573E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

AG117	3.592E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
AG117M	3.767E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
CD117	2.307E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
CD117M	1.410E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
IN117	1.331E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
IN117M	1.413E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SN117M	3.808E-04	4.148E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
RU118	4.987E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
RH118	5.863E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
PD118	4.720E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
AG118	6.333E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
AG118M	2.808E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
CD118	1.277E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
IN118	5.925E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
IN118M	2.315E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
RH119	3.021E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
PD119	5.628E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
AG119	8.161E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
CD119	2.648E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
CD119M	2.955E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
IN119	1.113E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
IN119M	3.064E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SN119M	8.462E-03	6.536E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
RU120	1.248E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
RH120	7.822E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
PD120	1.751E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
AG120	5.031E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
CD120	2.717E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
IN120	5.680E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
IN120M	3.928E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
RH121	1.043E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
PD121	1.157E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
AG121	5.392E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
CD121	8.005E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
IN121	4.907E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
IN121M	1.289E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
SN121	6.139E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	

OUTPUT UNIT = 6 PAGE 90

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
SN121M	9.099E-06	9.067E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH122	1.619E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD122	2.709E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG122	5.164E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD122	4.087E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN122	1.388E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN122M	5.489E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB122	2.391E-01	1.580E-11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB122M	3.554E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH123	1.207E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD123	9.366E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG123	2.190E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD123	9.177E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN123	5.748E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN123M	2.666E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN123	1.422E+00	8.713E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN123M	1.756E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE123M	6.139E-06	3.618E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD124	1.354E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG124	1.385E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD124	5.784E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN124	1.769E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB124	1.466E-01	5.122E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB124M	3.777E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG125	3.366E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD125	6.795E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN125	7.398E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN125M	5.455E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN125	2.369E+01	3.334E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN125M	4.071E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB125	1.763E+00	1.757E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE125M	4.828E-02	8.983E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD126	2.194E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG126	1.350E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD126	3.822E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN126	2.778E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN126	3.012E-05	3.012E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB126	3.203E+00	1.948E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB126M	1.246E+00	3.075E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

CD127	2.895E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN127	1.181E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN127M	1.236E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN127	2.590E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN127M	7.912E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB127	1.635E+02	1.201E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE127	3.400E+01	1.200E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE127M	7.958E-01	4.881E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG128	5.290E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD128	8.953E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN128	3.081E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN128	2.296E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 91

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
SB128	6.631E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB128M	8.864E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I128	7.198E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD129	5.607E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN129	1.928E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN129	4.487E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN129M	6.172E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB129	9.801E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE129	3.009E+02	3.471E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE129M	1.711E+01	2.617E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I129	4.377E-07	4.617E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD130	5.270E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN130	2.926E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN130	8.256E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB130	6.302E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB130M	3.056E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I130	1.007E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I130M	4.954E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD131	1.340E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN131	1.100E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN131	1.802E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

SB131	3.758E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE131	1.811E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE131M	3.916E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I131	9.929E+02	3.898E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE131M	2.837E+00	4.408E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD132	1.123E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN132	4.802E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN132	7.334E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB132	3.831E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB132M	2.411E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE132	8.605E+02	3.149E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I132	7.216E+03	2.692E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS132	2.085E-02	1.184E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN133	4.673E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN133	5.467E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB133	4.538E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE133	3.939E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE133M	4.558E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I133	3.897E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I133M	1.516E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE133	6.719E+02	4.776E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE133M	2.693E+01	1.237E-11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN134	2.965E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN134	5.773E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB134	8.977E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB134M	8.487E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE134	4.158E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I134	1.387E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I134M	1.118E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE134M	3.865E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 92

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
CS134	5.520E+00	5.077E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS134M	9.550E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN135	9.406E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

SB135	5.878E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE135	5.558E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I135	6.918E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE135	5.534E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE135M	3.667E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS135	4.413E-06	4.504E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS135M	1.614E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA135M	1.545E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN136	6.925E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB136	1.512E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE136	2.865E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I136	7.388E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I136M	3.998E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS136	3.919E+01	3.127E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA136M	5.728E+00	4.571E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB137	1.870E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE137	1.164E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I137	6.337E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE137	6.608E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS137	4.042E+00	4.019E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA137M	1.375E+01	1.350E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB138	2.924E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE138	2.490E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I138	3.706E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE138	6.055E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS138	1.305E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS138M	1.398E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB139	1.868E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE139	7.014E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I139	1.804E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE139	7.195E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS139	6.958E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA139	3.340E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE140	6.958E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I140	6.463E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE140	4.150E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS140	1.278E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA140	1.527E+03	1.083E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA140	9.237E+03	7.486E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR140	1.234E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE141	4.403E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I141	1.025E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE141	2.473E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

CS141	7.676E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA141	5.609E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA141	3.227E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE141	6.429E+02	9.240E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE142	3.404E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
I142	1.893E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE142	6.612E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS142	6.966E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA142	4.612E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA142	1.144E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR142	5.027E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR142M	3.094E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I143	9.485E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE143	1.631E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS143	2.953E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA143	7.492E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA143	6.183E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE143	2.237E+03	2.300E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR143	9.021E+02	9.547E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I144	9.981E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE144	2.027E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS144	1.088E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA144	3.752E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA144	9.717E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE144	6.837E+01	5.473E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR144	7.705E+02	6.065E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR144M	4.246E-01	3.387E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE145	3.065E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS145	2.053E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA145	3.524E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA145	5.135E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE145	3.153E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR145	1.468E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

XE146	1.652E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS146	4.271E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA146	7.835E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA146	5.279E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE146	7.264E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR146	4.253E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM146	5.986E-05	5.800E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE147	2.097E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS147	5.956E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA147	3.385E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA147	1.773E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE147	2.660E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR147	2.013E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND147	5.015E+02	1.642E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM147	4.088E+00	4.640E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS148	5.078E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA148	4.159E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA148	1.044E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE148	8.754E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR148	2.769E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM148	1.578E+02	2.148E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM148M	2.892E+01	6.245E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA149	7.531E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 94

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
LA149	1.949E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE149	1.198E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR149	9.206E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND149	5.924E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM149	2.579E+02	9.953E-11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS150	5.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA150	4.447E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA150	5.324E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE150	3.112E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR150	1.285E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PM150	1.088E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA151	5.644E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE151	1.848E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR151	5.063E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND151	4.448E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM151	1.867E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM151	6.983E-03	7.185E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA152	1.467E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA152	9.018E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE152	2.985E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR152	3.649E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND152	1.124E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM152	3.523E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM152M	5.602E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU152	1.294E-03	1.278E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU152M	5.539E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA153	8.227E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE153	9.268E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR153	9.085E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND153	2.412E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM153	9.715E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM153	5.659E+01	4.220E-13	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD153	6.393E-05	4.922E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA154	5.025E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE154	8.418E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR154	3.085E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND154	5.680E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM154	1.680E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM154M	2.523E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU154	2.575E-01	2.524E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE155	1.557E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR155	5.181E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND155	5.002E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM155	7.316E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM155	4.069E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU155	6.061E-02	5.857E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE156	1.249E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR156	1.356E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND156	1.079E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM156	5.838E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM156	1.024E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
EU156	8.531E+01	1.338E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE157	1.403E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR157	2.002E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND157	5.762E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM157	2.162E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM157	2.232E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU157	1.215E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR158	2.087E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND158	7.006E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM158	1.035E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM158	5.239E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU158	1.690E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR159	7.727E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND159	1.200E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM159	1.918E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM159	6.401E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU159	6.240E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD159	2.216E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND160	9.865E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM160	5.428E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM160	2.242E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU160	4.210E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB160	2.687E-02	1.120E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND161	1.135E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM161	6.160E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM161	9.577E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU161	1.686E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD161	1.138E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB161	2.974E-01	3.172E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM162	4.781E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM162	1.335E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU162	9.684E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD162	3.071E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB162	8.338E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB162M	2.709E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

SM163	2.933E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU163	2.310E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD163	3.565E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB163	2.331E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM164	2.453E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU164	8.043E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD164	1.011E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB164	2.671E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM165	2.498E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU165	1.244E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD165	8.279E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB165	9.138E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY165	7.337E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY165M	5.620E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY166	6.400E-03	5.148E-11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HO166	2.525E-02	2.815E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SUMTOT	6.855E+05	3.578E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL	6.855E+05	3.578E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

* PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS

PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
H	6.205E-04	6.119E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO	3.825E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI	7.413E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU	5.748E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN	3.568E+01	2.053E-16	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA	2.307E+02	3.702E-15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE	8.624E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS	3.701E+03	1.618E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE	7.676E+03	3.792E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR	2.264E+04	5.693E-19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR	2.931E+04	6.079E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB	5.646E+04	6.092E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR	4.478E+04	2.772E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y	6.688E+04	4.105E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

ZR	2.973E+04	6.770E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB	5.839E+04	9.811E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO	2.023E+04	1.875E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC	2.409E+04	2.537E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU	4.314E+03	1.882E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH	3.570E+03	1.459E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD	6.546E+02	1.037E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG	8.764E+02	1.220E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD	5.782E+02	3.314E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN	2.319E+03	1.237E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN	5.699E+03	9.112E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB	2.283E+04	1.828E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE	2.598E+04	7.866E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I	5.717E+04	3.898E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE	2.899E+04	4.886E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS	5.191E+04	9.408E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA	3.105E+04	2.437E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA	5.329E+04	7.486E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE	1.210E+04	1.471E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR	1.539E+04	6.163E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND	2.016E+03	1.642E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM	1.461E+03	1.110E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM	1.448E+02	7.185E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU	1.282E+02	1.650E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD	4.201E+00	4.922E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB	1.777E+00	1.123E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY	8.539E-02	5.148E-11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HO	2.525E-02	2.017E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SUMTOT	6.855E+05	3.578E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL	6.855E+05	3.578E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

CUMULATIVE TABLE TOTALS

AP+FP	6.858E+05	3.596E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ACT+FP	7.317E+05	3.581E+03	2.558E+00	2.568E+00	2.578E+00	2.725E+00	2.869E+00	3.063E+00	3.172E+00	3.229E+00	3.256E+00
AP+ACT+FP	7.320E+05	3.598E+03	2.558E+00	2.568E+00	2.578E+00	2.725E+00	2.869E+00	3.063E+00	3.172E+00	3.229E+00	3.256E+00

OUTPUT UNIT = 6

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

(ALPHA,N) NEUTRON SOURCE, NEUTRONS/SEC

BASIS= PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y

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 U234      2.404E+02 2.404E+02 0.000E+00 2.759E-03 5.512E-03 4.883E-02 1.011E-01 1.996E-01 2.906E-01 3.748E-01 4.658E-01
 U238      1.045E+02 1.045E+02 0.000E+00 9.664E-12 1.933E-11 1.740E-10 3.672E-10 7.538E-10 1.140E-09 1.527E-09 1.983E-09
PU238      6.260E+03 6.683E+03 6.674E+03 6.661E+03 6.648E+03 6.441E+03 6.192E+03 5.721E+03 5.287E+03 4.885E+03 4.450E+03
PU239      4.200E+04 4.376E+04 4.376E+04 4.376E+04 4.376E+04 4.376E+04 4.375E+04 4.374E+04 4.373E+04 4.371E+04 4.370E+04
PU240      1.089E+04 1.089E+04 1.089E+04 1.089E+04 1.089E+04 1.089E+04 1.088E+04 1.087E+04 1.086E+04 1.085E+04 1.083E+04
AM241      1.028E+02 4.318E+02 0.000E+00 3.212E+02 6.384E+02 5.211E+03 9.777E+03 1.606E+04 1.978E+04 2.193E+04 2.324E+04
CM242      5.653E+03 4.004E+03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00

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TOTALS
TABLE      6.529E+04 6.616E+04 6.133E+04 6.164E+04 6.194E+04 6.630E+04 7.060E+04 7.639E+04 7.966E+04 8.137E+04 8.222E+04
ACTUAL     6.529E+04 6.616E+04 6.133E+04 6.164E+04 6.194E+04 6.630E+04 7.060E+04 7.639E+04 7.966E+04 8.137E+04 8.222E+04
                                                                                OUTPUT UNIT =  6                        PAGE   98
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:04
                                PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL
                            SPONTANEOUS FISSION NEUTRON SOURCE, NEUTRONS/SEC
                        BASIS=  PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL
           0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
 U238      1.254E+04 1.254E+04 0.000E+00 1.159E-09 2.318E-09 2.086E-08 4.405E-08 9.041E-08 1.368E-07 1.831E-07 2.378E-07
PU238      1.021E+03 1.090E+03 1.088E+03 1.086E+03 1.084E+03 1.050E+03 1.010E+03 9.331E+02 8.622E+02 7.967E+02 7.258E+02
PU240      5.742E+04 5.742E+04 5.742E+04 5.741E+04 5.741E+04 5.739E+04 5.736E+04 5.730E+04 5.724E+04 5.718E+04 5.710E+04
PU242      3.496E+02 3.496E+02 3.496E+02 3.496E+02 3.496E+02 3.496E+02 3.496E+02 3.496E+02 3.496E+02 3.496E+02 3.496E+02
CM242      2.743E+04 1.943E+04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CM244      4.260E+02 4.233E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00

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TOTALS
TABLE      9.921E+04 9.127E+04 5.888E+04 5.887E+04 5.887E+04 5.881E+04 5.874E+04 5.861E+04 5.848E+04 5.835E+04 5.821E+04
ACTUAL     9.921E+04 9.127E+04 5.888E+04 5.887E+04 5.887E+04 5.881E+04 5.874E+04 5.861E+04 5.848E+04 5.835E+04 5.821E+04

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OVERALL
TOTALS
TABLE      1.645E+05 1.574E+05 1.202E+05 1.205E+05 1.208E+05 1.251E+05 1.293E+05 1.350E+05 1.381E+05 1.397E+05 1.404E+05
ACTUAL     1.645E+05 1.574E+05 1.202E+05 1.205E+05 1.208E+05 1.251E+05 1.293E+05 1.350E+05 1.381E+05 1.397E+05 1.404E+05
                                                                                OUTPUT UNIT =  6                        PAGE   99
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:04
             PHOTON SPECTRUM FOR ACTIVATION PRODUCTS

                                PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL
                                   POWER=   1.00 MW, BURNUP=      1. MWD, FLUX= 1.00E+00 N/CM**2-SEC

                                 18 GROUP PHOTON RELEASE RATES, PHOTONS/SECOND
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BASIS= PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

EMEAN	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
1.000E-02	5.865E+13	1.384E+12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.500E-02	3.741E+13	4.208E+12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
3.750E-02	5.374E+12	1.704E+11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
5.750E-02	1.203E+13	4.176E+11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
8.500E-02	5.687E+12	1.928E+10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.250E-01	6.907E+12	5.934E+11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.250E-01	3.598E+13	4.439E+11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
3.750E-01	2.025E+13	5.716E+11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
5.750E-01	5.170E+14	1.359E+12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
8.500E-01	6.232E+14	1.098E+14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.250E+00	3.540E+13	5.847E+11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.750E+00	1.047E+14	3.758E+09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.250E+00	1.157E+13	2.371E+08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.750E+00	2.864E+12	2.218E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
3.500E+00	1.378E+11	8.250E-15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
5.000E+00	1.890E+07	2.456E-15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
7.000E+00	4.348E+06	1.594E-16	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
9.500E+00	2.339E+05	1.008E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL	1.477E+15	1.195E+14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MEV/SEC	1.108E+15	9.536E+13	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

18 GROUP SPECIFIC ENERGY RELEASE RATES, MEV/WATT-SEC
BASIS= PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

EMEAN	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
1.000E-02	5.865E+05	1.384E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.500E-02	9.351E+05	1.052E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
3.750E-02	2.015E+05	6.388E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
5.750E-02	6.916E+05	2.401E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
8.500E-02	4.834E+05	1.639E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.250E-01	8.634E+05	7.418E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.250E-01	8.097E+06	9.988E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
3.750E-01	7.593E+06	2.144E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
5.750E-01	2.973E+08	7.815E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
8.500E-01	5.297E+08	9.330E+07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.250E+00	4.425E+07	7.309E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.750E+00	1.832E+08	6.577E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.250E+00	2.603E+07	5.334E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

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2.750E+00  7.877E+06 6.101E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
3.500E+00  4.824E+05 2.888E-20 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
5.000E+00  9.451E+01 1.228E-20 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
7.000E+00  3.044E+01 1.116E-21 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
9.500E+00  2.223E+00 9.575E-23 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00

  TOTAL    1.108E+09 9.536E+07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00

 GAM POW   1.777E+02 1.529E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
                                                                                OUTPUT UNIT =  6                          PAGE  100
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:04

                    PRINCIPAL PHOTON SOURCES IN GROUP  1,PHOTONS/SEC
                     MEAN ENERGY= 0.010MEV

NUCLIDE
           0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                    PRINCIPAL PHOTON SOURCES IN GROUP  2,PHOTONS/SEC
                     MEAN ENERGY= 0.025MEV

NUCLIDE
           0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                    PRINCIPAL PHOTON SOURCES IN GROUP  3,PHOTONS/SEC
                     MEAN ENERGY= 0.038MEV

NUCLIDE
           0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                    PRINCIPAL PHOTON SOURCES IN GROUP  4,PHOTONS/SEC
                     MEAN ENERGY= 0.058MEV

NUCLIDE
           0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                    PRINCIPAL PHOTON SOURCES IN GROUP  5,PHOTONS/SEC
                     MEAN ENERGY= 0.085MEV

NUCLIDE
           0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                    PRINCIPAL PHOTON SOURCES IN GROUP  6,PHOTONS/SEC
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                 MEAN ENERGY= 0.125MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                 PRINCIPAL PHOTON SOURCES IN GROUP  7,PHOTONS/SEC
                  MEAN ENERGY= 0.225MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                 PRINCIPAL PHOTON SOURCES IN GROUP  8,PHOTONS/SEC
                  MEAN ENERGY= 0.375MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
                                                                          OUTPUT UNIT =  6                          PAGE  101
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:04

                 PRINCIPAL PHOTON SOURCES IN GROUP  9,PHOTONS/SEC
                  MEAN ENERGY= 0.575MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                 PRINCIPAL PHOTON SOURCES IN GROUP 10,PHOTONS/SEC
                  MEAN ENERGY= 0.850MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                 PRINCIPAL PHOTON SOURCES IN GROUP 11,PHOTONS/SEC
                  MEAN ENERGY= 1.250MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                 PRINCIPAL PHOTON SOURCES IN GROUP 12,PHOTONS/SEC
                  MEAN ENERGY= 1.750MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
```

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                PRINCIPAL PHOTON SOURCES IN GROUP 13,PHOTONS/SEC
                 MEAN ENERGY= 2.250MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 14,PHOTONS/SEC
                 MEAN ENERGY= 2.750MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 15,PHOTONS/SEC
                 MEAN ENERGY= 3.500MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 16,PHOTONS/SEC
                 MEAN ENERGY= 5.000MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
PB204    2.456E-15 2.456E-15 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
                                                                                OUTPUT UNIT =  6                        PAGE  102
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:04

                PRINCIPAL PHOTON SOURCES IN GROUP 17,PHOTONS/SEC
                 MEAN ENERGY= 7.000MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
PB204    1.594E-16 1.594E-16 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00

                PRINCIPAL PHOTON SOURCES IN GROUP 18,PHOTONS/SEC
                 MEAN ENERGY= 9.500MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
                                                                                OUTPUT UNIT =  6                        PAGE  103
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:04
             PHOTON SPECTRUM FOR ACTINIDES + DAUGHTERS
```

PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL
POWER= 1.00 MW, BURNUP= 1. MWD, FLUX= 1.00E+00 N/CM**2-SEC

18 GROUP PHOTON RELEASE RATES, PHOTONS/SECOND
BASIS= PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

EMEAN	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
1.000E-02	3.676E+17	5.691E+11	2.481E+11	2.513E+11	2.539E+11	2.914E+11	3.285E+11	3.787E+11	4.075E+11	4.231E+11	4.314E+11
2.500E-02	1.847E+15	1.010E+10	0.000E+00	3.328E+08	6.421E+08	5.100E+09	9.551E+09	1.568E+10	1.931E+10	2.140E+10	2.267E+10
3.750E-02	1.861E+16	1.002E+09	2.560E+08	2.826E+08	3.077E+08	6.689E+08	1.029E+09	1.522E+09	1.811E+09	1.975E+09	2.072E+09
5.750E-02	7.744E+15	1.494E+11	6.572E+08	5.558E+09	1.011E+10	7.566E+10	1.411E+11	2.312E+11	2.845E+11	3.153E+11	3.340E+11
8.500E-02	2.013E+17	6.728E+10	6.967E+07	2.090E+08	2.104E+08	2.295E+08	2.484E+08	2.735E+08	2.875E+08	2.949E+08	2.984E+08
1.250E-01	1.596E+17	1.161E+11	2.186E+08	4.604E+08	4.604E+08	4.601E+08	4.595E+08	4.576E+08	4.550E+08	4.521E+08	4.484E+08
2.250E-01	1.110E+17	8.768E+10	3.038E+07	2.106E+08	2.087E+08	1.802E+08	1.515E+08	1.106E+08	8.509E+07	6.920E+07	5.792E+07
3.750E-01	1.106E+16	5.460E+09	1.418E+08	1.526E+08	1.526E+08	1.531E+08	1.536E+08	1.547E+08	1.557E+08	1.568E+08	1.580E+08
5.750E-01	1.721E+15	3.550E+07	5.323E+06	5.411E+06	5.502E+06	7.033E+06	8.554E+06	1.034E+07	1.128E+07	1.179E+07	1.207E+07
8.500E-01	3.121E+15	7.145E+07	7.172E+05	7.432E+05	7.707E+05	1.273E+06	1.769E+06	2.305E+06	2.564E+06	2.695E+06	2.757E+06
1.250E+00	1.052E+14	6.676E+07	6.260E+04	6.268E+04	6.285E+04	7.126E+04	7.939E+04	8.241E+04	8.098E+04	7.916E+04	7.709E+04
1.750E+00	5.886E+11	1.139E+07	2.833E+04	2.854E+04	2.910E+04	5.680E+04	8.369E+04	9.378E+04	8.947E+04	8.407E+04	7.813E+04
2.250E+00	2.551E+04	2.388E+04	1.621E+04	1.622E+04	1.622E+04	1.629E+04	1.635E+04	1.643E+04	1.645E+04	1.646E+04	1.644E+04
2.750E+00	3.845E+04	7.673E+04	9.306E+03	1.130E+04	1.690E+04	2.949E+05	5.648E+05	6.651E+05	6.210E+05	5.663E+05	5.066E+05
3.500E+00	1.304E+04	1.219E+04	8.223E+03	8.225E+03	8.226E+03	8.249E+03	8.269E+03	8.291E+03	8.297E+03	8.292E+03	8.280E+03
5.000E+00	5.528E+03	5.161E+03	3.463E+03	3.464E+03	3.464E+03	3.470E+03	3.475E+03	3.479E+03	3.478E+03	3.475E+03	3.469E+03
7.000E+00	6.284E+02	5.859E+02	3.908E+02	3.908E+02	3.908E+02	3.910E+02	3.911E+02	3.911E+02	3.907E+02	3.901E+02	3.893E+02
9.500E+00	7.184E+01	6.691E+01	4.443E+01	4.443E+01	4.443E+01	4.443E+01	4.441E+01	4.436E+01	4.430E+01	4.422E+01	4.412E+01
TOTAL	8.837E+17	1.006E+12	2.494E+11	2.585E+11	2.660E+11	3.738E+11	4.812E+11	6.281E+11	7.142E+11	7.627E+11	7.911E+11
MEV/SEC	7.482E+16	5.676E+10	2.625E+09	3.036E+09	3.332E+09	7.598E+09	1.185E+10	1.770E+10	2.116E+10	2.313E+10	2.433E+10

18 GROUP SPECIFIC ENERGY RELEASE RATES, MEV/WATT-SEC
BASIS= PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

EMEAN	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
1.000E-02	3.676E+09	5.691E+03	2.481E+03	2.513E+03	2.539E+03	2.914E+03	3.285E+03	3.787E+03	4.075E+03	4.231E+03	4.314E+03
2.500E-02	4.619E+07	2.525E+02	0.000E+00	8.321E+00	1.605E+01	1.275E+02	2.388E+02	3.919E+02	4.827E+02	5.350E+02	5.669E+02
3.750E-02	6.980E+08	3.756E+01	9.599E+00	1.060E+01	1.154E+01	2.508E+01	3.858E+01	5.706E+01	6.792E+01	7.406E+01	7.769E+01
5.750E-02	4.453E+08	8.590E+03	3.779E+01	3.196E+02	5.811E+02	4.350E+03	8.113E+03	1.329E+04	1.636E+04	1.813E+04	1.921E+04
8.500E-02	1.711E+10	5.719E+03	5.922E+00	1.777E+01	1.788E+01	1.951E+01	2.111E+01	2.324E+01	2.444E+01	2.506E+01	2.537E+01
1.250E-01	1.995E+10	1.451E+04	2.733E+01	5.755E+01	5.755E+01	5.752E+01	5.744E+01	5.720E+01	5.688E+01	5.652E+01	5.606E+01
2.250E-01	2.497E+10	1.973E+04	6.834E+00	4.739E+01	4.695E+01	4.054E+01	3.408E+01	2.489E+01	1.915E+01	1.557E+01	1.303E+01
3.750E-01	4.147E+09	2.047E+03	5.317E+01	5.722E+01	5.723E+01	5.739E+01	5.760E+01	5.801E+01	5.841E+01	5.880E+01	5.926E+01
5.750E-01	9.898E+08	2.041E+01	3.061E+00	3.111E+00	3.163E+00	4.044E+00	4.919E+00	5.946E+00	6.487E+00	6.779E+00	6.940E+00

8.500E-01	2.653E+09	6.073E+01	6.096E-01	6.317E-01	6.551E-01	1.082E+00	1.503E+00	1.959E+00	2.180E+00	2.291E+00	2.344E+00
1.250E+00	1.315E+08	8.345E+01	7.826E-02	7.834E-02	7.857E-02	8.908E-02	9.924E-02	1.030E-01	1.012E-01	9.895E-02	9.636E-02
1.750E+00	1.030E+06	1.993E+01	4.958E-02	4.994E-02	5.093E-02	9.939E-02	1.465E-01	1.641E-01	1.566E-01	1.471E-01	1.367E-01
2.250E+00	5.739E-02	5.373E-02	3.648E-02	3.649E-02	3.650E-02	3.665E-02	3.679E-02	3.696E-02	3.702E-02	3.703E-02	3.699E-02
2.750E+00	1.058E-01	2.110E-01	2.559E-02	3.108E-02	4.646E-02	8.109E-01	1.553E+00	1.829E+00	1.708E+00	1.557E+00	1.393E+00
3.500E+00	4.563E-02	4.265E-02	2.878E-02	2.879E-02	2.879E-02	2.887E-02	2.894E-02	2.902E-02	2.904E-02	2.902E-02	2.898E-02
5.000E+00	2.764E-02	2.580E-02	1.732E-02	1.732E-02	1.732E-02	1.735E-02	1.737E-02	1.739E-02	1.739E-02	1.737E-02	1.734E-02
7.000E+00	4.399E-03	4.101E-03	2.735E-03	2.735E-03	2.736E-03	2.737E-03	2.738E-03	2.737E-03	2.735E-03	2.731E-03	2.725E-03
9.500E+00	6.824E-04	6.357E-04	4.221E-04	4.221E-04	4.221E-04	4.221E-04	4.219E-04	4.214E-04	4.208E-04	4.201E-04	4.192E-04
TOTAL	7.482E+10	5.676E+04	2.625E+03	3.036E+03	3.332E+03	7.598E+03	1.185E+04	1.770E+04	2.116E+04	2.313E+04	2.433E+04
GAM POW	1.199E+04	9.099E-03	4.208E-04	4.866E-04	5.341E-04	1.218E-03	1.900E-03	2.838E-03	3.391E-03	3.709E-03	3.900E-03

OUTPUT UNIT = 6 PAGE 104

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:04

PRINCIPAL PHOTON SOURCES IN GROUP 1,PHOTONS/SEC
MEAN ENERGY= 0.010MEV

NUCLIDE

0.00 Y 0.25 Y 0.50 Y 0.75 Y 1.00 Y 5.00 Y 10.0 Y 20.0 Y 30.0 Y 40.0 Y 51.8 Y

PRINCIPAL PHOTON SOURCES IN GROUP 2,PHOTONS/SEC
MEAN ENERGY= 0.025MEV

NUCLIDE

0.00 Y 0.25 Y 0.50 Y 0.75 Y 1.00 Y 5.00 Y 10.0 Y 20.0 Y 30.0 Y 40.0 Y 51.8 Y

PRINCIPAL PHOTON SOURCES IN GROUP 3,PHOTONS/SEC
MEAN ENERGY= 0.038MEV

NUCLIDE

0.00 Y 0.25 Y 0.50 Y 0.75 Y 1.00 Y 5.00 Y 10.0 Y 20.0 Y 30.0 Y 40.0 Y 51.8 Y

PRINCIPAL PHOTON SOURCES IN GROUP 4,PHOTONS/SEC
MEAN ENERGY= 0.058MEV

NUCLIDE

0.00 Y 0.25 Y 0.50 Y 0.75 Y 1.00 Y 5.00 Y 10.0 Y 20.0 Y 30.0 Y 40.0 Y 51.8 Y

PRINCIPAL PHOTON SOURCES IN GROUP 5,PHOTONS/SEC
MEAN ENERGY= 0.085MEV

```
NUCLIDE
        0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP  6,PHOTONS/SEC
                 MEAN ENERGY= 0.125MEV

NUCLIDE
        0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP  7,PHOTONS/SEC
                 MEAN ENERGY= 0.225MEV

NUCLIDE
        0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP  8,PHOTONS/SEC
                 MEAN ENERGY= 0.375MEV

NUCLIDE
        0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
                                                                          OUTPUT UNIT =  6                          PAGE  105
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:04

                PRINCIPAL PHOTON SOURCES IN GROUP  9,PHOTONS/SEC
                 MEAN ENERGY= 0.575MEV

NUCLIDE
        0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 10,PHOTONS/SEC
                 MEAN ENERGY= 0.850MEV

NUCLIDE
        0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 11,PHOTONS/SEC
                 MEAN ENERGY= 1.250MEV

NUCLIDE
        0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 12,PHOTONS/SEC
                 MEAN ENERGY= 1.750MEV
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NUCLIDE
        0.00 Y   0.25 Y   0.50 Y   0.75 Y   1.00 Y   5.00 Y   10.0 Y   20.0 Y   30.0 Y   40.0 Y   51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 13,PHOTONS/SEC
                 MEAN ENERGY= 2.250MEV

NUCLIDE
        0.00 Y   0.25 Y   0.50 Y   0.75 Y   1.00 Y   5.00 Y   10.0 Y   20.0 Y   30.0 Y   40.0 Y   51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 14,PHOTONS/SEC
                 MEAN ENERGY= 2.750MEV

NUCLIDE
        0.00 Y   0.25 Y   0.50 Y   0.75 Y   1.00 Y   5.00 Y   10.0 Y   20.0 Y   30.0 Y   40.0 Y   51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 15,PHOTONS/SEC
                 MEAN ENERGY= 3.500MEV

NUCLIDE
        0.00 Y   0.25 Y   0.50 Y   0.75 Y   1.00 Y   5.00 Y   10.0 Y   20.0 Y   30.0 Y   40.0 Y   51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 16,PHOTONS/SEC
                 MEAN ENERGY= 5.000MEV

NUCLIDE
        0.00 Y   0.25 Y   0.50 Y   0.75 Y   1.00 Y   5.00 Y   10.0 Y   20.0 Y   30.0 Y   40.0 Y   51.8 Y
                                                          OUTPUT UNIT =  6                          PAGE  106
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:04

                PRINCIPAL PHOTON SOURCES IN GROUP 17,PHOTONS/SEC
                 MEAN ENERGY= 7.000MEV

NUCLIDE
        0.00 Y   0.25 Y   0.50 Y   0.75 Y   1.00 Y   5.00 Y   10.0 Y   20.0 Y   30.0 Y   40.0 Y   51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 18,PHOTONS/SEC
                 MEAN ENERGY= 9.500MEV

NUCLIDE
        0.00 Y   0.25 Y   0.50 Y   0.75 Y   1.00 Y   5.00 Y   10.0 Y   20.0 Y   30.0 Y   40.0 Y   51.8 Y
                                                          OUTPUT UNIT =  6                          PAGE  107
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:04
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PHOTON SPECTRUM FOR FISSION PRODUCTS

PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL
POWER= 1.00 MW, BURNUP= 1. MWD, FLUX= 1.00E+00 N/CM**2-SEC

18 GROUP PHOTON RELEASE RATES, PHOTONS/SECOND
BASIS= PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

EMEAN	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
1.000E-02	1.054E+17	6.746E+14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.500E-02	4.999E+16	3.193E+14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
3.750E-02	5.996E+16	8.343E+14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
5.750E-02	2.253E+16	1.240E+14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
8.500E-02	3.009E+16	1.489E+14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.250E-01	6.055E+16	1.703E+15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.250E-01	1.838E+17	9.499E+13	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
3.750E-01	1.366E+17	1.012E+14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
5.750E-01	2.697E+17	2.281E+15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
8.500E-01	3.029E+17	1.121E+16	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.250E+00	1.878E+17	4.293E+13	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.750E+00	6.670E+16	1.467E+14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.250E+00	3.715E+16	2.590E+13	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.750E+00	1.591E+16	5.578E+12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
3.500E+00	8.882E+15	5.737E+10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
5.000E+00	4.720E+15	1.955E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
7.000E+00	3.802E+13	1.269E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
9.500E+00	3.739E+09	8.021E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL	1.543E+18	1.771E+16	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MEV/SEC	1.055E+18	1.156E+16	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

18 GROUP SPECIFIC ENERGY RELEASE RATES, MEV/WATT-SEC
BASIS= PLUTONIUM @ 6% PU-240 FROM 1 MTU FUEL

EMEAN	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
1.000E-02	1.054E+09	6.746E+06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.500E-02	1.250E+09	7.982E+06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
3.750E-02	2.249E+09	3.129E+07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
5.750E-02	1.296E+09	7.129E+06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
8.500E-02	2.558E+09	1.266E+07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
1.250E-01	7.568E+09	2.129E+08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
2.250E-01	4.136E+10	2.137E+07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

```
3.750E-01  5.121E+10 3.795E+07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
5.750E-01  1.551E+11 1.311E+09 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
8.500E-01  2.575E+11 9.528E+09 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
1.250E+00  2.347E+11 5.366E+07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
1.750E+00  1.167E+11 2.567E+08 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
2.250E+00  8.358E+10 5.827E+07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
2.750E+00  4.375E+10 1.534E+07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
3.500E+00  3.109E+10 2.008E+05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
5.000E+00  2.360E+10 9.775E-12 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
7.000E+00  2.662E+08 8.880E-13 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
9.500E+00  3.552E+04 7.620E-14 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00

  TOTAL    1.055E+12 1.156E+10 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00

 GAM POW   1.691E+05 1.853E+03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
                                                                                  OUTPUT UNIT =  6                          PAGE  108
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:04

                    PRINCIPAL PHOTON SOURCES IN GROUP  1,PHOTONS/SEC
                     MEAN ENERGY= 0.010MEV

NUCLIDE
           0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                    PRINCIPAL PHOTON SOURCES IN GROUP  2,PHOTONS/SEC
                     MEAN ENERGY= 0.025MEV

NUCLIDE
           0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                    PRINCIPAL PHOTON SOURCES IN GROUP  3,PHOTONS/SEC
                     MEAN ENERGY= 0.038MEV

NUCLIDE
           0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                    PRINCIPAL PHOTON SOURCES IN GROUP  4,PHOTONS/SEC
                     MEAN ENERGY= 0.058MEV

NUCLIDE
           0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                    PRINCIPAL PHOTON SOURCES IN GROUP  5,PHOTONS/SEC
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```
                MEAN ENERGY= 0.085MEV

NUCLIDE
        0.00 Y   0.25 Y   0.50 Y   0.75 Y   1.00 Y   5.00 Y   10.0 Y   20.0 Y   30.0 Y   40.0 Y   51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP  6,PHOTONS/SEC
                 MEAN ENERGY= 0.125MEV

NUCLIDE
        0.00 Y   0.25 Y   0.50 Y   0.75 Y   1.00 Y   5.00 Y   10.0 Y   20.0 Y   30.0 Y   40.0 Y   51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP  7,PHOTONS/SEC
                 MEAN ENERGY= 0.225MEV

NUCLIDE
        0.00 Y   0.25 Y   0.50 Y   0.75 Y   1.00 Y   5.00 Y   10.0 Y   20.0 Y   30.0 Y   40.0 Y   51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP  8,PHOTONS/SEC
                 MEAN ENERGY= 0.375MEV

NUCLIDE
        0.00 Y   0.25 Y   0.50 Y   0.75 Y   1.00 Y   5.00 Y   10.0 Y   20.0 Y   30.0 Y   40.0 Y   51.8 Y
                                                                    OUTPUT UNIT =  6                    PAGE  109
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:04

                PRINCIPAL PHOTON SOURCES IN GROUP  9,PHOTONS/SEC
                 MEAN ENERGY= 0.575MEV

NUCLIDE
        0.00 Y   0.25 Y   0.50 Y   0.75 Y   1.00 Y   5.00 Y   10.0 Y   20.0 Y   30.0 Y   40.0 Y   51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 10,PHOTONS/SEC
                 MEAN ENERGY= 0.850MEV

NUCLIDE
        0.00 Y   0.25 Y   0.50 Y   0.75 Y   1.00 Y   5.00 Y   10.0 Y   20.0 Y   30.0 Y   40.0 Y   51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 11,PHOTONS/SEC
                 MEAN ENERGY= 1.250MEV

NUCLIDE
        0.00 Y   0.25 Y   0.50 Y   0.75 Y   1.00 Y   5.00 Y   10.0 Y   20.0 Y   30.0 Y   40.0 Y   51.8 Y
```

```
                PRINCIPAL PHOTON SOURCES IN GROUP 12,PHOTONS/SEC
                 MEAN ENERGY= 1.750MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 13,PHOTONS/SEC
                 MEAN ENERGY= 2.250MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 14,PHOTONS/SEC
                 MEAN ENERGY= 2.750MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 15,PHOTONS/SEC
                 MEAN ENERGY= 3.500MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 16,PHOTONS/SEC
                 MEAN ENERGY= 5.000MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
                                                                          OUTPUT UNIT =  6                          PAGE  110
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:04

                PRINCIPAL PHOTON SOURCES IN GROUP 17,PHOTONS/SEC
                 MEAN ENERGY= 7.000MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 18,PHOTONS/SEC
                 MEAN ENERGY= 9.500MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
```

```
RB 94      3.739E+09 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
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PUREX 1WW

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*************************************************************
*                                                           *
*   OOOOO  RRRR   IIIII   GGGGG   EEEEE  N    N   22222     *
*   O   O  R   R    I    G       E      NN   N  22   22    *
*   O   O  RRRR     I    G   GG  EEEE   N NN N      22     *
*   O   O  R   R    I    G    G  E      N   NN   22        *
*   OOOOO  R   R  IIIII   GGGGGG  EEEEE  N    N  2222222    *
*                                                           *
*                  Version 2.2 (5-4-2002)                   *
*                                                           *
*                                                           *
*                  OOOOO    AA    K   K                     *
*                  O   O   A A    K  K                      *
*                  O   O   AAAA   KKK                       *
*                  O   O   A A    K  K                      *
*                  OOOOO   A A    K   K                     *
*                                                           *
*          RRRR   III   DDDDD     GGGGG    EEEEE            *
*          R   R   I    D    D   G         E                *
*          RRRR    I    D    D   G    GG   EEEE             *
*          R   R   I    D    D   G     G   E                *
*          R   R  III   DDDDD     GGGGGG   EEEEE            *
*                                                           *
*   N    N   AA   TTTTT  III  OOOOO  N    N   AA   L        *
*   NN   N  A A    T     I   O   O  NN   N  A A   L        *
*   N NN N  AAAA   T     I   O   O  N NN N  AAAA  L        *
*   N   NN  A A    T     I   O   O  N   NN  A A   L        *
*   N    N  A A    T    III  OOOOO  N    N  A A   LLLLL    *
*                                                           *
* L     AA  BBBB  OOOO RRRR    AA  TTTTT OOOO RRRR  Y   Y  *
* L    A A B   B O  O R   R  A A   T   O  O R   R  Y Y    *
* L    AAAA BBBB  O  O RRRR   AAAA   T   O  O RRRR    Y    *
* L    A A B   B O  O R   R  A A   T   O  O R   R   Y     *
* LLLL A A BBBB  OOOO R   R  A A   T   OOOO R   R   Y     *
*                                                           *
*                                                           *
*          RSIC CODE PACKAGE NUMBER (CCC-371)               *
*                                                           *
*  ORIGEN2 VERSION 2.2 (5-4-2002) UPDATES THE FOLLOWING:    *
```

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*                                                          *
*          CCC-371(A) - MAINFRAMES                         *
*          CCC-371(E) - ALL PCS WITH WINDOWS               *
*                                                          *
*    ORIGEN2 RUN  DATE: 07/27/10    TIME 06:33:26          *
*                                                          *
*                                                          *
************************************************************
                                                  OUTPUT UNIT =  6                    PAGE    1
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:26

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***************************** ORIGEN2:  A REVISED AND UPDATED VERSION OF THE ORIGEN COMPUTER CODE ******************************
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INTRODUCTION
   THIS TEXT IS INTENDED TO BE A BRIEF OUTLINE OF THE ORIGEN2 COMPUTER CODE, WHICH IS A REVISED AND UPDATED VERSION OF THE
   ORIGEN DOCUMENTED IN REPORT ORNL-4628 (MAY 1973).  INCLUDED HERE ARE A BRIEF DESCRIPTION OF THE FUNCTIONS OF ORIGEN2, A
   LISTING OF THE MAJOR DATA SOURCES, A LISTING OF THE PUBLISHED DOCUMENTATION CONCERNING ORIGEN2, AND AN OUTLINE OF THE ORIGEN2
   OUTPUT ORGANIZATION.  ORIGEN2 IS AVAILABLE FROM THE ORNL RADIATION SHIELDING INFORMATION CENTER (RSIC) AT THE FOLLOWING
   ADDRESS:
                          CODES COORDINATOR
                          RADIATION SHIELDING INFORMATION CENTER
                          BLDG. 6025
                          OAK RIDGE NATIONAL LABORATORY
                          OAK RIDGE, TENNESSEE  37830
                          PHONE: (615) 574-6176
   QUESTIONS CONCERNING ORIGEN2 SHOULD BE ADDRESSED TO RSIC.
DESCRIPTION
   ORIGEN2 IS A REVISION AND UPDATE OF THE ORIGEN COMPUTER CODE. SPECIFICALLY, THE INPUT, OUTPUT, CONTROL, AND DATA BASE ASPECTS
    OF ORIGEN HAVE BEEN SIGNIFICANTLY REVISED AND UPDATED TO REFLECT CURRENT INFORMATION AND NEEDS.  IT SHOULD BE NOTED THAT THE
   MATHEMATICAL METHODS USED TO SOLVE THE NUCLIDE BUILDUP, DEPLETION, AND DECAY EQUATIONS ARE ESSENTIALLY UNCHANGED FROM THAT IN
   ORIGEN.  ORIGEN2 IS A COMPUTER CODE DESIGNED TO CALCULATE THE COMPOSITION AND CHARACTERISTICS OF NUCLEAR MATERIALS AS A
   FUNCTION OF DECAY TIME AND THE CHANGES THE MATERIALS UNDERGO DURING VARIOUS FUEL CYCLE OPERATIONS.  INPUT AND OUTPUT FEATURES
   HAVE BEEN DESIGNED TO FACILITATE FLEXIBILITY IN THE TYPE OF CASES THAT CAN BE CONSIDERED AND IN CONTROLLING THE DETAIL OF THE
   OUTPUT.  FOR FURTHER INFORMATION, THE USER IS REFERRED TO THE DOCUMENTATION LISTED BELOW.
MAJOR DATA SOURCES
   VIRTUALLY ALL ASPECTS OF THE DATA INPUT TO ORIGEN2 HAVE BEEN UPDATED OR REVISED TO REFLECT CURRENT INFORMATION.  THE
   PRINCIPAL SOURCES OF CROSS SECTION DATA WERE THE ENDF/B-IV, ENDF/B-V, AND LENDL COMPILATIONS.  DECAY AND PHOTON INFORMATION
   WERE PRIMARILY BASED ON THE EVALUATED NUCLEAR STRUCTURE DATA FILE (ENSDF) AT ORNL AND ENDF/B-IV.  DATA CONCERNING REACTOR
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   AND FUEL CHARACTERISTICS WERE OBTAINED FROM REFERENCE SAFETY ANALYSIS REPORTS AND, WHERE POSSIBLE, THE COMMERCIAL REACTOR
   VENDORS.
DOCUMENTATION
   THE FOLLOWING ITEMS CONSTITUTE THE ORIGEN2 DOCUMENTATION PUBLISHED AS OF THE DATE OF THIS CODE PACKAGE:
        A.G. CROFF, "ORIGEN2 - A REVISED AND UPDATED VERSION OF THE OAK RIDGE ISOTOPE GENERATION AND DEPLETION CODE", ORNL-5621
        (JULY 1980).
        A.G. CROFF, "A USER'S MANUAL FOR THE ORIGEN2 COMPUTER CODE",  ORNL/TM-7175 (JULY 1980).
        A.G. CROFF, M.A. BJERKE, G.W.MORRISON, AND L.M. PETRIE, "REVISED URANIUM-PLUTONIUM CYCLE PWR AND BWR MODELS FOR THE
        ORIGEN COMPUTER CODE", ORNL/TM-6051 (SEPTEMBER 1978).
        A.G. CROFF AND M.A. BJERKE, "ALTERNATIVE FUEL CYCLE PWR MODELS FOR THE ORIGEN COMPUTER CODE", ORNL/TM-7005 (FEB 1980),
        A.G. CROFF, R.L. HAESE, AND N.B. GOVE, "UPDATED DECAY AND PHOTON LIBRARIES FOR THE ORIGEN CODE", ORNL/TM-6055 (FEB 1979)
        A.G. CROFF, "ORIGEN2: A REVISED AND UPDATED VERSION OF ORIGEN", TRANS. AM. NUCL. SOC., VOL. 34, P. 349-50 (JUNE 1980).
                                                                    OUTPUT UNIT =  6                          PAGE    2
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:26

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***************************** ORIGEN2:  A REVISED AND UPDATED VERSION OF THE ORIGEN COMPUTER CODE ******************************
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ORGANIZATION OF ORIGEN2 OUTPUT
   PAST EXPERIENCE HAS INDICATED THAT MANY USERS ENCOUNTER CONSIDERABLE DIFFICULTY IN FINDING THE DESIRED INFORMATION IN A
   ORIGEN2 OUT PUT WHICH IS SOMETIMES RATHER MASSIVE.  THIS SECTION IS INTENDED AS A BRIEF OUTLINE OF THE ORGANIZATION OF
   ORIGEN2 OUTPUT.  FOR DETAILS REFER TO THE USER'S MANUAL (ORNL/TM-7175, SECT. 8.2).  THE ORIGEN2 OUTPUT IS EXTREMELY
   HIERARCHICAL, AND IS ORGANIZED AS FOLLOWS:

        CARD INPUT ECHO
        MISCELLANEOUS INPUT DATA (NEUTRON YIELDS, REPROCESSING LOSSES,ELEMENT CHEMICAL TOXICITIES
        LISTING OF ORIGEN2 COMMANDS CURRENTLY BEING EXECUTED
        LISTING OF ORIGEN2 DATA LIBRARIES (IF SPECIFIED)
          DECAY LIBRARY
            ACTIVATION PRODUCTS
            ACTINIDES
            FISSION PRODUCTS
          CROSS SECTION/FISSION PRODUCT YIELD LIBRARY
            ACTIVATION PRODUCTS, ACTINIDES, AND FISSION PRODUCTS
          PHOTON LIBRARY
            ACTIVATION PRODUCTS, ACTINIDES, AND FISSION PRODUCTS
        OUTPUT 1
          REACTIVITY AND BURNUP DATA
          ACTIVATION PRODUCT TABLES
            GRAM TABLES (NUCLIDE, ELEMENT, NUCLIDE SUMMARY, ELEMENT SUMMARY)
```

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      CURIE TABLES (NUCLIDE, ELEMENT, NUCLIDE SUMMARY, ELEMENT SUMMARY)
      ETC. (DEPENDING ON THE OUTPUT OPTIONS SPECIFIED, MANY OF THESE TABLES MAY BE OMITTED
        .
        .
    ACTINIDE TABLES
      SAME SUBHEADINGS POSSIBLE AS UNDER ACTIVATION PRODUCT TABLES
    FISSION PRODUCT TABLES
      SAME SUBHEADINGS POSSIBLE AS UNDER ACTIVATION PRODUCT TABLES
    NEUTRON PRODUCTION RATE TABLES: (ALPHA,N) AND SPONTANEOUS FISSION
    PHOTON TABLES
      ACTIVATION PRODUCTS (SUMMATION AND PRINCIPAL CONTRIBUTORS)
      ACTINIDES (SUMMATION AND PRINCIPAL CONTRIBUTORS)
      FISSION PRODUCTS (SUMMATION AND PRINCIPAL CONTRIBUTORS)
  OUTPUT 2
    SAME GENERAL CONTENT AND ORDER AS OUTPUT 1
    .
    .
    .
  OUTPUT N
    SAME GENERAL CONTENT AND ORDER AS OUTPUT 1
  TABLE OF CONTENTS (UNIT 12) FOR THE ABOVE (UNIT 6) OUTPUT
  VARIABLE CROSS SECTION INFORMATION OUTPUT (UNIT 16)
  DEBUGGING AND OTHER INTERNAL INFORMATION OUTPUT (UNIT 15)

THE SCENARIO LISTED ABOVE CONSTITUTES A TYPICAL ORIGEN2 OUTPUT FOR MANY CASES.  ONE POSSIBLE MODIFICATION IS THE USE OF AN
STP COMMAND TO EXECUTE AN ADDITIONAL SET OF INSTRUCTIONS AFTER THE FIRST SET HAS BEEN EXECUTED.  IF THIS IS DONE, THE OUTPUT
WILL BEGIN WITH "MISCELLANEOUS INPUT DATA" IF NSTP=1, "ORIGEN2COMMANDS CURRENTLY BEING EXECUTED" IF NSTP=2, OR "OUTPUT 1"
FOR NSTP=3.  ANOTHER OFTEN-USED OPTION IS TO EMPLOY BOTH THE PRIMARY (UNIT 6) AND ALTERNATE (UNIT 11) OUTPUT UNITS.  IF BOTH
ARE ROUTED TO PAPER, THE TABLE OF CONTENTS FOR UNIT 11, WHICH IS ON UNIT 13, WILL IMMEDIATELY FOLLOW THE DEBUGGING AND
INTERNAL INFORMATION (UNIT 15) OUTPUT.  THE "OUTPUT N" TABLES FOR UNIT 11 WILL BE PRINTED FOLLOWING THE TABLE OF CONTENTS.
                                                                                                                    PAGE    3
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:26
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                  CARD IMAGE
UNIT    UNIT     NUMBER
   5      50        1      92 5 0.001
   5      50        2      93 5 0.001
   5      50        3      94 5 0.001
   5      50        4      95 5 0.001
   5      50        5      96 5 0.001
   5      50        6      97 5 0.001
   5      50        7      98 5 0.001
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5    50    8    99 5 0.001
5    50    9    -1
5    50   10    -1
5    50   11    -1
5    50   12    TIT     PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240
5    50   13    RDA
5    50   14    RDA     READ DATA LIBRARIES
5    50   15    RDA
5    50   16    LIP     0 0 0
5    50   17    LIB     0 1 2 3 0 0 0 9 3 0 0 0
5    50   18    PHO     101 102 103 10
5    50   19    RDA
5    50   20    RDA     INPUT PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240
5    50   21    RDA
5    50   22    BAS     PUREX 1WW SIMULANT  FROM 1 MTU FUEL @ 6% PU-240
5    50   23    INP    -1  1 -1 -1  1  1
5    50   24    MOV    -1  1  0  1
5    50   25    RDA
5    50   26    RDA     DECAY PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240
5    50   27    RDA
5    50   28    DEC     0.250    1  2  5  2
5    50   29    DEC     0.500    2  3  5  0
5    50   30    PRO              3  3 -1  5
5    50   31    DEC     0.750    3  4  5  0
5    50   32    DEC     1.000    4  5  5  0
5    50   33    DEC     5.000    5  6  5  0
5    50   34    DEC     10.00    6  7  5  0
5    50   35    DEC     20.00    7  8  5  0
5    50   36    DEC     30.00    8  9  5  0
5    50   37    DEC     40.00    9 10  5  0
5    50   38    DEC     51.80   10 11  5  0
5    50   39    RDA
5    50   40    RDA     GENERATE OUTPUT
5    50   41    RDA
5    50   42    CUT     5 1.0E-10  7 1.0E-10  9 1.0E-10  23 1.0E-10  27 1.0  -1
5    50   43    OPTL    8 8 8 8 7  8 7 8 7 8  8 8 8 8 8  8 8 8 8 8  8 8 8 8
5    50   44    OPTA    8 8 8 8 7  8 7 8 7 8  8 8 8 8 8  8 8 8 8 8  8 8 8 8
5    50   45    OPTF    8 8 8 8 7  8 7 8 7 8  8 8 8 8 8  8 8 8 8 8  8 8 8 8
5    50   46    HED      1  0.00 Y
5    50   47    HED      2  0.25 Y
5    50   48    HED      3  0.50 Y
5    50   49    HED      4  0.75 Y
```

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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:26
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                   CARD IMAGE
UNIT    UNIT     NUMBER
   5      50        50     HED      5  1.00 Y
   5      50        51     HED      6  5.00 Y
   5      50        52     HED      7  10.0 Y
   5      50        53     HED      8  20.0 Y
   5      50        54     HED      9  30.0 Y
   5      50        55     HED     10  40.0 Y
   5      50        56     HED     11  51.8 Y
   5      50        57     OUT     11  1 -1  0
   5      50        58     END
   5      50        59     1   10010 3.836E+00 0 0.00
   5      50        60     1   10020 1.560E-03 0 0.00
   5      50        61     1   10030 1.546E-05 0 0.00
   5      50        62     1   10040 1.944E-17 0 0.00
   5      50        63     1   20030 7.433E-08 0 0.00
   5      50        64     1   20040 1.237E-02 0 0.00
   5      50        65     1   20060 5.174E-11 0 0.00
   5      50        66     1   30060 3.608E-04 0 0.00
   5      50        67     1   30070 1.710E-02 0 0.00
   5      50        68     1   30080 1.320E-14 0 0.00
   5      50        69     1   40080 2.946E-16 0 0.00
   5      50        70     1   40090 9.999E+00 0 0.00
   5      50        71     1   40100 2.099E-05 0 0.00
   5      50        72     1   50100 2.865E-02 0 0.00
   5      50        73     1   50110 2.362E-01 0 0.00
   5      50        74     1   50120 7.083E-16 0 0.00
   5      50        75     1   60120 5.633E+02 0 0.00
   5      50        76     1   60130 6.850E+00 0 0.00
   5      50        77     1   60140 2.739E-02 0 0.00
   5      50        78     1   60150 1.186E-16 0 0.00
   5      50        79     1   70140 8.052E+01 0 0.00
   5      50        80     1   70150 3.180E-01 0 0.00
   5      50        81     1   70160 1.339E-15 0 0.00
   5      50        82     1   90200 6.295E-13 0 0.00
   5      50        83     1  100210 1.276E-05 0 0.00
   5      50        84     1  100220 1.917E-05 0 0.00
   5      50        85     1  100230 3.020E-11 0 0.00
   5      50        86     1  110230 1.468E+00 0 0.00
   5      50        87     1  110240 3.933E-06 0 0.00
```

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   5      50          88      1  110241 2.921E-13 0 0.00
   5      50          89      1  110250 2.491E-11 0 0.00
   5      50          90      1  120240 2.063E+01 0 0.00
   5      50          91      1  120250 2.721E+00 0 0.00
   5      50          92      1  120260 3.115E+00 0 0.00
   5      50          93      1  120270 1.109E-07 0 0.00
   5      50          94      1  130270 8.054E+02 0 0.00
   5      50          95      1  130280 6.477E-07 0 0.00
   5      50          96      1  130290 5.155E-10 0 0.00
   5      50          97      1  130300 4.872E-15 0 0.00
   5      50          98      1  140280 1.207E+02 0 0.00
   5      50          99      1  140290 6.331E+00 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:26
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE     CARD                                  CARD IMAGE
UNIT    UNIT      NUMBER
   5      50         100      1  140300 4.346E+00 0 0.00
   5      50         101      1  140310 1.199E-07 0 0.00
   5      50         102      1  140320 8.569E-12 0 0.00
   5      50         103      1  150310 7.758E-05 0 0.00
   5      50         104      1  150320 3.224E-10 0 0.00
   5      50         105      1  200450 1.042E-08 0 0.00
   5      50         106      1  210460 1.123E-06 0 0.00
   5      50         107      1  210470 1.316E-07 0 0.00
   5      50         108      1  210480 7.050E-09 0 0.00
   5      50         109      1  210490 1.257E-10 0 0.00
   5      50         110      1  210500 7.860E-14 0 0.00
   5      50         111      1  220460 2.906E-01 0 0.00
   5      50         112      1  220470 2.682E-01 0 0.00
   5      50         113      1  220480 2.707E+00 0 0.00
   5      50         114      1  220490 2.057E-01 0 0.00
   5      50         115      1  220500 1.992E-01 0 0.00
   5      50         116      1  220510 2.456E-10 0 0.00
   5      50         117      1  230500 8.964E-03 0 0.00
   5      50         118      1  230510 3.668E+00 0 0.00
   5      50         119      1  230520 1.006E-07 0 0.00
   5      50         120      1  230530 9.900E-12 0 0.00
   5      50         121      1  230540 5.801E-14 0 0.00
   5      50         122      1  240500 5.770E+00 0 0.00
   5      50         123      1  240510 4.443E-03 0 0.00
   5      50         124      1  240520 1.158E+02 0 0.00
```

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   5      50        125      1  240530 1.342E+01 0 0.00
   5      50        126      1  240540 3.424E+00 0 0.00
   5      50        127      1  240550 6.827E-09 0 0.00
   5      50        128      1  250540 5.662E-04 0 0.00
   5      50        129      1  250550 2.860E+01 0 0.00
   5      50        130      1  250560 1.052E-04 0 0.00
   5      50        131      1  250570 2.991E-11 0 0.00
   5      50        132      1  250580 6.817E-14 0 0.00
   5      50        133      1  260540 2.518E+01 0 0.00
   5      50        134      1  260550 1.981E-02 0 0.00
   5      50        135      1  260560 4.126E+02 0 0.00
   5      50        136      1  260570 1.001E+01 0 0.00
   5      50        137      1  260580 1.355E+00 0 0.00
   5      50        138      1  260590 1.208E-04 0 0.00
   5      50        139      1  270580 1.500E-03 0 0.00
   5      50        140      1  270590 7.276E-01 0 0.00
   5      50        141      1  270600 7.043E-03 0 0.00
   5      50        142      1  270601 3.965E-07 0 0.00
   5      50        143      1  270610 5.228E-09 0 0.00
   5      50        144      1  270620 2.823E-11 0 0.00
   5      50        145      1  280580 9.450E+01 0 0.00
   5      50        146      1  280590 9.690E-02 0 0.00
   5      50        147      1  280600 3.740E+01 0 0.00
   5      50        148      1  280610 1.662E+00 0 0.00
   5      50        149      1  280620 5.304E+00 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:26
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE   CARD                                  CARD IMAGE
UNIT    UNIT    NUMBER
   5      50        150      1  280630 1.500E-02 0 0.00
   5      50        151      1  280640 1.417E+00 0 0.00
   5      50        152      1  280650 4.903E-07 0 0.00
   5      50        153      1  280660 5.510E-11 0 0.00
   5      50        154      1  290630 5.387E+01 0 0.00
   5      50        155      1  290640 3.047E-04 0 0.00
   5      50        156      1  290650 2.475E+01 0 0.00
   5      50        157      1  290660 4.533E-07 0 0.00
   5      50        158      1  290670 3.204E-10 0 0.00
   5      50        159      1  300640 1.505E-02 0 0.00
   5      50        160      1  300650 1.033E-06 0 0.00
   5      50        161      1  300660 9.059E-03 0 0.00
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5      50        162      1  380870 6.002E-05 0 0.00
5      50        163      1  380880 5.500E-03 0 0.00
5      50        164      1  380890 2.089E-04 0 0.00
5      50        165      1  380900 2.079E-08 0 0.00
5      50        166      1  380910 4.605E-07 0 0.00
5      50        167      1  380930 2.139E-11 0 0.00
5      50        168      1  390890 2.093E-04 0 0.00
5      50        169      1  390891 1.937E-14 0 0.00
5      50        170      1  390900 5.847E-04 0 0.00
5      50        171      1  390910 5.922E-04 0 0.00
5      50        172      1  390920 1.952E-06 0 0.00
5      50        173      1  390930 1.728E-09 0 0.00
5      50        174      1  390940 1.140E-08 0 0.00
5      50        175      1  390960 9.013E-12 0 0.00
5      50        176      1  400890 3.410E-10 0 0.00
5      50        177      1  400900 3.660E+04 0 0.00
5      50        178      1  400910 8.046E+03 0 0.00
5      50        179      1  400920 1.243E+04 0 0.00
5      50        180      1  400930 9.131E-01 0 0.00
5      50        181      1  400940 1.292E+04 0 0.00
5      50        182      1  400950 1.640E-01 0 0.00
5      50        183      1  400960 2.122E+03 0 0.00
5      50        184      1  400970 5.795E-03 0 0.00
5      50        185      1  410920 2.129E-07 0 0.00
5      50        186      1  410930 4.193E-09 0 0.00
5      50        187      1  410931 6.388E-08 0 0.00
5      50        188      1  410940 1.302E-07 0 0.00
5      50        189      1  410950 6.009E-02 0 0.00
5      50        190      1  410951 6.603E-05 0 0.00
5      50        191      1  410960 1.103E-06 0 0.00
5      50        192      1  410970 4.120E-04 0 0.00
5      50        193      1  410971 5.410E-06 0 0.00
5      50        194      1  410980 1.557E-15 0 0.00
5      50        195      1  420920 5.205E-01 0 0.00
5      50        196      1  420930 1.372E-05 0 0.00
5      50        197      1  420931 1.799E-09 0 0.00
5      50        198      1  420940 3.341E-01 0 0.00
5      50        199      1  420950 6.386E-01 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:26
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                CARD IMAGE
```

UNIT	UNIT	NUMBER					
5	50	200	1	420960	6.163E-01	0	0.00
5	50	201	1	420970	9.322E-01	0	0.00
5	50	202	1	420980	9.032E-01	0	0.00
5	50	203	1	420990	1.291E-05	0	0.00
5	50	204	1	421000	3.669E-01	0	0.00
5	50	205	1	421010	1.211E-08	0	0.00
5	50	206	1	430990	3.950E-05	0	0.00
5	50	207	1	431000	1.266E-12	0	0.00
5	50	208	1	431010	1.176E-08	0	0.00
5	50	209	1	441010	8.424E-05	0	0.00
5	50	210	1	471080	1.122E-13	0	0.00
5	50	211	1	471081	1.656E-10	0	0.00
5	50	212	1	471091	8.694E-13	0	0.00
5	50	213	1	471100	2.192E-14	0	0.00
5	50	214	1	471101	9.806E-11	0	0.00
5	50	215	1	481060	3.511E-03	0	0.00
5	50	216	1	481070	1.913E-09	0	0.00
5	50	217	1	481080	2.448E-03	0	0.00
5	50	218	1	481090	8.801E-07	0	0.00
5	50	219	1	481100	3.492E-02	0	0.00
5	50	220	1	481110	3.613E-02	0	0.00
5	50	221	1	481111	4.410E-10	0	0.00
5	50	222	1	481120	6.892E-02	0	0.00
5	50	223	1	481130	1.301E-05	0	0.00
5	50	224	1	481140	1.107E-01	0	0.00
5	50	225	1	481150	3.737E-06	0	0.00
5	50	226	1	481151	4.665E-06	0	0.00
5	50	227	1	481160	2.217E-02	0	0.00
5	50	228	1	481170	5,998E-09	0	0.00
5	50	229	1	481171	2.748E-10	0	0.00
5	50	230	1	481190	8.521E-13	0	0.00
5	50	231	1	481210	5.983E-15	0	0.00
5	50	232	1	491130	8.764E-03	0	0.00
5	50	233	1	491131	5.259E-06	0	0.00
5	50	234	1	491140	1.473E-09	0	0.00
5	50	235	1	491141	2.085E-05	0	0.00
5	50	236	1	491150	5.054E-06	0	0.00
5	50	237	1	491160	1.050E-11	0	0.00
5	50	238	1	491161	4.013E-10	0	0.00
5	50	239	1	491170	2.391E-09	0	0.00
5	50	240	1	491171	4.233E-09	0	0.00
5	50	241	1	491180	9.888E-13	0	0.00

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    5      50        242      1  491190 2.120E-11 0 0.00
    5      50        243      1  491191 1.632E-12 0 0.00
    5      50        244      1  491210 1.073E-14 0 0.00
    5      50        245      1  501120 1.002E+01 0 0.00
    5      50        246      1  501130 8.758E-03 0 0.00
    5      50        247      1  501131 1.050E-06 0 0.00
    5      50        248      1  501140 6.844E+00 0 0.00
    5      50        249      1  501150 3.889E+00 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:26
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                    CARD IMAGE
UNIT    UNIT     NUMBER
    5      50        250      1  501160 1.527E+02 0 0.00
    5      50        251      1  501170 8.130E+01 0 0.00
    5      50        252      1  501171 1.204E-02 0 0.00
    5      50        253      1  501180 2.569E+02 0 0.00
    5      50        254      1  501190 9.172E+01 0 0.00
    5      50        255      1  501191 3.595E-02 0 0.00
    5      50        256      1  501200 3.484E+02 0 0.00
    5      50        257      1  501210 5.581E-04 0 0.00
    5      50        258      1  501211 2.060E-04 0 0.00
    5      50        259      1  501220 5.029E+01 0 0.00
    5      50        260      1  501230 2.745E-03 0 0.00
    5      50        261      1  501231 5.587E-09 0 0.00
    5      50        262      1  501240 6.220E+01 0 0.00
    5      50        263      1  501250 1.808E-03 0 0.00
    5      50        264      1  501251 9.995E-07 0 0.00
    5      50        265      1  511210 3.466E-02 0 0.00
    5      50        266      1  511220 1.127E-05 0 0.00
    5      50        267      1  511221 1.059E-10 0 0.00
    5      50        268      1  511230 9.753E-04 0 0.00
    5      50        269      1  511240 1.411E-06 0 0.00
    5      50        270      1  511241 2.187E-13 0 0.00
    5      50        271      1  511250 2.157E-02 0 0.00
    5      50        272      1  511260 3.327E-06 0 0.00
    5      50        273      1  511261 4.418E-10 0 0.00
    5      50        274      1  521220 1.386E-04 0 0.00
    5      50        275      1  521231 5.416E-08 0 0.00
    5      50        276      1  521250 7.268E-04 0 0.00
    5      50        277      1  521251 1.290E-04 0 0.00
    5      50        278      1  521260 9.296E-06 0 0.00
```

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   5      50        279      1  521270 3.454E-11 0 0.00
   5      50        280      1  521271 1.584E-10 0 0.00
   5      50        281      1  711750 5.984E-04 0 0.00
   5      50        282      1  711761 3.355E-08 0 0.00
   5      50        283      1  711770 5.425E-08 0 0.00
   5      50        284      1  711771 5.813E-10 0 0.00
   5      50        285      1  721740 2.143E-02 0 0.00
   5      50        286      1  721750 8.644E-04 0 0.00
   5      50        287      1  721760 7.295E-01 0 0.00
   5      50        288      1  721770 1.986E+00 0 0.00
   5      50        289      1  721780 4.361E+00 0 0.00
   5      50        290      1  721781 1.253E-09 0 0.00
   5      50        291      1  721790 2.317E+00 0 0.00
   5      50        292      1  721791 6.940E-07 0 0.00
   5      50        293      1  721800 5.255E+00 0 0.00
   5      50        294      1  721801 1.621E-06 0 0.00
   5      50        295      1  721810 7.537E-03 0 0.00
   5      50        296      1  721820 2.677E-05 0 0.00
   5      50        297      1  731810 9.124E-03 0 0.00
   5      50        298      1  731820 7.187E-05 0 0.00
   5      50        299      1  731821 2.147E-11 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:26
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                CARD IMAGE
UNIT    UNIT     NUMBER
   5      50        300      1  731830 4.734E-06 0 0.00
   5      50        301      1  741800 4.633E-03 0 0.00
   5      50        302      1  741810 2.716E-05 0 0.00
   5      50        303      1  741820 9.318E-01 0 0.00
   5      50        304      1  741830 5.384E-01 0 0.00
   5      50        305      1  741831 5.593E-11 0 0.00
   5      50        306      1  741840 1.133E+00 0 0.00
   5      50        307      1  741850 5.223E-04 0 0.00
   5      50        308      1  741851 1.546E-11 0 0.00
   5      50        309      1  741860 1.037E+00 0 0.00
   5      50        310      1  741870 3.458E-04 0 0.00
   5      50        311      1  741880 2.291E-05 0 0.00
   5      50        312      1  751850 3.229E-04 0 0.00
   5      50        313      1  751860 1.378E-06 0 0.00
   5      50        314      1  751870 2.425E-02 0 0.00
   5      50        315      1  751880 5.250E-06 0 0.00
```

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5      50        316      1  751881 9.008E-08 0 0.00
5      50        317      1  751890 2.143E-11 0 0.00
5      50        318      1  761860 8.636E-06 0 0.00
5      50        319      1  761880 2.658E-04 0 0.00
5      50        320      1  822040 1.012E-01 0 0.00
5      50        321      1  822050 1.488E-05 0 0.00
5      50        322      1  822060 1.752E+00 0 0.00
5      50        323      1  822070 1.627E+00 0 0.00
5      50        324      1  822080 3.861E+00 0 0.00
5      50        325      1  822090 5.185E-10 0 0.00
5      50        326      2   20040 1.004E-04 0 0.00
5      50        327      2  812070 2.008E-18 0 0.00
5      50        328      2  812080 2.300E-15 0 0.00
5      50        329      2  822090 2.451E-17 0 0.00
5      50        330      2  822100 9.479E-15 0 0.00
5      50        331      2  822110 1.553E-17 0 0.00
5      50        332      2  822120 1.357E-12 0 0.00
5      50        333      2  822140 2.699E-18 0 0.00
5      50        334      2  832100 5.838E-18 0 0.00
5      50        335      2  832110 9.164E-19 0 0.00
5      50        336      2  832120 1.287E-13 0 0.00
5      50        337      2  832130 5.756E-18 0 0.00
5      50        338      2  832140 2.004E-18 0 0.00
5      50        339      2  842100 2.091E-17 0 0.00
5      50        340      2  842110 1.124E-23 0 0.00
5      50        341      2  842120 6.805E-24 0 0.00
5      50        342      2  842130 8.634E-27 0 0.00
5      50        343      2  842140 6.688E-25 0 0.00
5      50        344      2  842150 1.300E-23 0 0.00
5      50        345      2  842160 4.261E-18 0 0.00
5      50        346      2  842180 3.104E-19 0 0.00
5      50        347      2  852170 6.918E-23 0 0.00
5      50        348      2  862190 2.948E-20 0 0.00
5      50        349      2  862200 2.044E-15 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:26
LISTING OF INPUT DATA ON UNIT = 5

INPUT    WRITE     CARD                                    CARD IMAGE
UNIT     UNIT      NUMBER
   5      50         350      2  862220 5.753E-16 0 0.00
   5      50         351      2  872210 6.282E-19 0 0.00
   5      50         352      2  872230 2.987E-19 0 0.00
```

5	50	353	2	882230	7.486E-15	0	0.00
5	50	354	2	882240	1.184E-11	0	0.00
5	50	355	2	882250	3.804E-15	0	0.00
5	50	356	2	882260	8.950E-11	0	0.00
5	50	357	2	892250	1.918E-15	0	0.00
5	50	358	2	892270	1.158E-11	0	0.00
5	50	359	2	902270	1.704E-14	0	0.00
5	50	360	2	902280	2.294E-09	0	0.00
5	50	361	2	902290	3.157E-10	0	0.00
5	50	362	2	902300	6.214E-05	0	0.00
5	50	363	2	902310	6.945E-08	0	0.00
5	50	364	2	902320	5.613E-06	0	0.00
5	50	365	2	902340	1.387E-05	0	0.00
5	50	366	2	912310	3.828E-06	0	0.00
5	50	367	2	912320	7.356E-09	0	0.00
5	50	368	2	912330	2.815E-07	0	0.00
5	50	369	2	912340	2.295E-10	0	0.00
5	50	370	2	912341	4.677E-10	0	0.00
5	50	371	2	922320	1.661E-06	0	0.00
5	50	372	2	922330	5.939E-05	0	0.00
5	50	373	2	922340	6.925E+01	0	0.00
5	50	374	2	922350	8.726E+03	0	0.00
5	50	375	2	922360	6.889E+02	0	0.00
5	50	376	2	922370	1.423E+00	0	0.00
5	50	377	2	922380	9.883E+05	0	0.00
5	50	378	2	922390	2.683E-01	0	0.00
5	50	379	2	922400	1.285E-05	0	0.00
5	50	380	2	932350	2.230E-08	0	0.00
5	50	381	2	932360	2.170E-06	0	0.00
5	50	382	2	932361	1.994E-07	0	0.00
5	50	383	2	932370	1.244E+01	0	0.00
5	50	384	2	932380	2.633E-02	0	0.00
5	50	385	2	932390	3.864E+01	0	0.00
5	50	386	2	932400	4.866E-04	0	0.00
5	50	387	2	932401	1.404E-05	0	0.00
5	50	388	2	942360	3.144E-06	0	0.00
5	50	389	2	942370	3.727E-07	0	0.00
5	50	390	2	942380	3.842E-01	0	0.00
5	50	391	2	942390	9.273E+02	0	0.00
5	50	392	2	942400	6.306E+01	0	0.00
5	50	393	2	942410	8.354E+00	0	0.00
5	50	394	2	942420	2.074E-01	0	0.00
5	50	395	2	942430	3.139E-05	0	0.00

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   5      50          396      2  952410 3.122E-02 0 0.00
   5      50          397      2  952420 6.708E-05 0 0.00
   5      50          398      2  952421 1.522E-04 0 0.00
   5      50          399      2  952430 2.243E-03 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:26
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE     CARD                                  CARD IMAGE
UNIT    UNIT      NUMBER
   5      50          400      2  952440 6.535E-08 0 0.00
   5      50          401      2  952441 5.339E-08 0 0.00
   5      50          402      2  962420 1.273E-03 0 0.00
   5      50          403      2  962430 2.149E-06 0 0.00
   5      50          404      2  962440 3.831E-05 0 0.00
   5      50          405      2  962450 1.365E-07 0 0.00
   5      50          406      3   10030 1.909E-03 0 0.00
   5      50          407      3   30060 1.391E-05 0 0.00
   5      50          408      3   30070 3.525E-07 0 0.00
   5      50          409      3   40090 6.798E-07 0 0.00
   5      50          410      3   40100 4.532E-06 0 0.00
   5      50          411      3   60140 9.165E-07 0 0.00
   5      50          412      3  270720 4.359E-13 0 0.00
   5      50          413      3  270730 1.302E-13 0 0.00
   5      50          414      3  270740 2.563E-14 0 0.00
   5      50          415      3  280720 1.610E-10 0 0.00
   5      50          416      3  280730 2.219E-11 0 0.00
   5      50          417      3  280740 2.513E-11 0 0.00
   5      50          418      3  280750 2.860E-12 0 0.00
   5      50          419      3  280760 1.154E-12 0 0.00
   5      50          420      3  280770 7.468E-14 0 0.00
   5      50          421      3  280780 1.165E-14 0 0.00
   5      50          422      3  290720 7.204E-10 0 0.00
   5      50          423      3  290730 7.161E-10 0 0.00
   5      50          424      3  290740 1.545E-10 0 0.00
   5      50          425      3  290750 2.143E-10 0 0.00
   5      50          426      3  290760 5.041E-11 0 0.00
   5      50          427      3  290770 3.135E-11 0 0.00
   5      50          428      3  290780 4.707E-12 0 0.00
   5      50          429      3  290790 1.467E-12 0 0.00
   5      50          430      3  290800 1.002E-13 0 0.00
   5      50          431      3  290810 5.900E-15 0 0.00
   5      50          432      3  300720 2.230E-05 0 0.00
```

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   5      50        433      3  300730 6.713E-09 0 0.00
   5      50        434      3  300740 5.476E-08 0 0.00
   5      50        435      3  300750 1.024E-08 0 0.00
   5      50        436      3  300760 1.195E-08 0 0.00
   5      50        437      3  300770 3.597E-09 0 0.00
   5      50        438      3  300780 6.650E-09 0 0.00
   5      50        439      3  300790 6.077E-10 0 0.00
   5      50        440      3  300800 4.422E-10 0 0.00
   5      50        441      3  300810 1.768E-11 0 0.00
   5      50        442      3  300820 2.317E-12 0 0.00
   5      50        443      3  300830 1.324E-13 0 0.00
   5      50        444      3  310720 6.775E-06 0 0.00
   5      50        445      3  310730 5.175E-06 0 0.00
   5      50        446      3  310740 2.922E-07 0 0.00
   5      50        447      3  310750 1.480E-07 0 0.00
   5      50        448      3  310760 8.417E-08 0 0.00
   5      50        449      3  310770 7.683E-08 0 0.00
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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:26
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE     CARD                                  CARD IMAGE
UNIT    UNIT      NUMBER
   5      50        450      3  310780 5.483E-08 0 0.00
   5      50        451      3  310790 3.487E-08 0 0.00
   5      50        452      3  310800 2.364E-08 0 0.00
   5      50        453      3  310810 5.779E-09 0 0.00
   5      50        454      3  310820 4.588E-10 0 0.00
   5      50        455      3  310830 1.207E-10 0 0.00
   5      50        456      3  310840 8.834E-12 0 0.00
   5      50        457      3  320720 7.458E-04 0 0.00
   5      50        458      3  320730 1.738E-03 0 0.00
   5      50        459      3  320731 1.562E-10 0 0.00
   5      50        460      3  320740 3.576E-03 0 0.00
   5      50        461      3  320750 6.486E-06 0 0.00
   5      50        462      3  320751 2.724E-09 0 0.00
   5      50        463      3  320760 1.941E-02 0 0.00
   5      50        464      3  320770 9.770E-05 0 0.00
   5      50        465      3  320771 3.049E-07 0 0.00
   5      50        466      3  320780 7.342E-05 0 0.00
   5      50        467      3  320790 1.326E-06 0 0.00
   5      50        468      3  320800 1.658E-06 0 0.00
   5      50        469      3  320810 9.157E-07 0 0.00
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  5      50        470      3  320820 3.900E-07 0 0.00
  5      50        471      3  320830 1.205E-07 0 0.00
  5      50        472      3  320840 2.070E-08 0 0.00
  5      50        473      3  320850 1.153E-09 0 0.00
  5      50        474      3  320860 2.423E-10 0 0.00
  5      50        475      3  320870 1.759E-11 0 0.00
  5      50        476      3  320880 6.044E-13 0 0.00
  5      50        477      3  330750 7.779E-03 0 0.00
  5      50        478      3  330760 4.508E-07 0 0.00
  5      50        479      3  330770 9.572E-04 0 0.00
  5      50        480      3  330780 7.791E-05 0 0.00
  5      50        481      3  330790 1.974E-05 0 0.00
  5      50        482      3  330800 1.352E-06 0 0.00
  5      50        483      3  330810 4.316E-06 0 0.00
  5      50        484      3  330820 2.858E-06 0 0.00
  5      50        485      3  330821 6.642E-07 0 0.00
  5      50        486      3  330830 3.476E-06 0 0.00
  5      50        487      3  330840 1.193E-06 0 0.00
  5      50        488      3  330850 2.661E-07 0 0.00
  5      50        489      3  330860 6.563E-08 0 0.00
  5      50        490      3  330870 1.182E-08 0 0.00
  5      50        491      3  330880 3.301E-10 0 0.00
  5      50        492      3  330890 3.319E-11 0 0.00
  5      50        493      3  340760 1.451E-05 0 0.00
  5      50        494      3  340770 4.020E-02 0 0.00
  5      50        495      3  340771 2.977E-10 0 0.00
  5      50        496      3  340780 8.419E-02 0 0.00
  5      50        497      3  340790 2.185E-01 0 0.00
  5      50        498      3  340791 8.536E-06 0 0.00
  5      50        499      3  340800 4.941E-01 0 0.00
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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:26
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                    CARD IMAGE
UNIT    UNIT     NUMBER
  5      50        500      3  340810 1.576E-04 0 0.00
  5      50        501      3  340811 1.409E-05 0 0.00
  5      50        502      3  340820 1.322E+00 0 0.00
  5      50        503      3  340830 1.784E-04 0 0.00
  5      50        504      3  340831 1.484E-05 0 0.00
  5      50        505      3  340840 1.237E-04 0 0.00
  5      50        506      3  340850 1.516E-05 0 0.00
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5	50	507	3	340851	5.345E-06	0	0.00
5	50	508	3	340860	1.336E-05	0	0.00
5	50	509	3	340870	3.512E-06	0	0.00
5	50	510	3	340880	3.698E-07	0	0.00
5	50	511	3	340890	2.907E-08	0	0.00
5	50	512	3	340900	1.298E-08	0	0.00
5	50	513	3	340910	5.776E-10	0	0.00
5	50	514	3	340920	3.364E-11	0	0.00
5	50	515	3	350790	5.120E-07	0	0.00
5	50	516	3	350800	1.139E-09	0	0.00
5	50	517	3	350801	1.072E-08	0	0.00
5	50	518	3	350810	8.536E-01	0	0.00
5	50	519	3	350820	1.546E-04	0	0.00
5	50	520	3	350821	1.544E-07	0	0.00
5	50	521	3	350830	2.997E-03	0	0.00
5	50	522	3	350840	1.220E-03	0	0.00
5	50	523	3	350841	5.604E-06	0	0.00
5	50	524	3	350850	1.357E-04	0	0.00
5	50	525	3	350860	3.256E-05	0	0.00
5	50	526	3	350861	2.683E-06	0	0.00
5	50	527	3	350870	7.619E-05	0	0.00
5	50	528	3	350880	2.538E-05	0	0.00
5	50	529	3	350890	5.256E-06	0	0.00
5	50	530	3	350900	1.257E-06	0	0.00
5	50	531	3	350910	1.595E-07	0	0.00
5	50	532	3	350920	6.623E-09	0	0.00
5	50	533	3	350930	8.896E-10	0	0.00
5	50	534	3	350940	3.971E-11	0	0.00
5	50	535	3	350950	2.917E-12	0	0.00
5	50	536	3	350960	1.132E-13	0	0.00
5	50	537	3	360800	4.291E-06	0	0.00
5	50	538	3	360810	1.620E-07	0	0.00
5	50	539	3	360820	3.988E-03	0	0.00
5	50	540	3	360830	2.085E+00	0	0.00
5	50	541	3	360831	2.295E-03	0	0.00
5	50	542	3	360840	4.114E+00	0	0.00
5	50	543	3	360850	1.048E+00	0	0.00
5	50	544	3	360851	1.286E-02	0	0.00
5	50	545	3	360860	7.884E+00	0	0.00
5	50	546	3	360870	7.400E-03	0	0.00
5	50	547	3	360880	2.361E-02	0	0.00
5	50	548	3	360890	5.561E-04	0	0.00
5	50	549	3	360900	9.494E-05	0	0.00

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26
LISTING OF INPUT DATA ON UNIT = 5

INPUT UNIT	WRITE UNIT	CARD NUMBER	CARD IMAGE
5	50	550	3 360910 1.933E-05 0 0.00
5	50	551	3 360920 1.930E-06 0 0.00
5	50	552	3 360930 4.835E-07 0 0.00
5	50	553	3 360940 3.262E-08 0 0.00
5	50	554	3 360950 7.777E-09 0 0.00
5	50	555	3 360960 1.113E-09 0 0.00
5	50	556	3 360970 2.002E-11 0 0.00
5	50	557	3 360980 3.727E-12 0 0.00
5	50	558	3 370850 3.916E+00 0 0.00
5	50	559	3 370860 4.924E-04 0 0.00
5	50	560	3 370861 7.282E-09 0 0.00
5	50	561	3 370870 1.017E+01 0 0.00
5	50	562	3 370880 2.493E-03 0 0.00
5	50	563	3 370890 2.793E-03 0 0.00
5	50	564	3 370900 4.655E-04 0 0.00
5	50	565	3 370901 1.694E-04 0 0.00
5	50	566	3 370910 2.163E-04 0 0.00
5	50	567	3 370920 1.442E-05 0 0.00
5	50	568	3 370930 1.421E-05 0 0.00
5	50	569	3 370940 3.421E-06 0 0.00
5	50	570	3 370950 2.431E-07 0 0.00
5	50	571	3 370960 3.722E-08 0 0.00
5	50	572	3 370970 5.830E-09 0 0.00
5	50	573	3 370980 1.043E-09 0 0.00
5	50	574	3 370990 5.471E-11 0 0.00
5	50	575	3 371000 6.070E-12 0 0.00
5	50	576	3 380860 9.230E-04 0 0.00
5	50	577	3 380870 2.699E-05 0 0.00
5	50	578	3 380871 2.754E-08 0 0.00
5	50	579	3 380880 1.461E+01 0 0.00
5	50	580	3 380890 9.532E+00 0 0.00
5	50	581	3 380900 2.311E+01 0 0.00
5	50	582	3 380910 1.335E-01 0 0.00
5	50	583	3 380920 4.029E-02 0 0.00
5	50	584	3 380930 2.045E-03 0 0.00
5	50	585	3 380940 3.217E-04 0 0.00
5	50	586	3 380950 1.044E-04 0 0.00

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  5      50        587      3  380960 1.130E-05 0 0.00
  5      50        588      3  380970 3.030E-07 0 0.00
  5      50        589      3  380980 5.176E-07 0 0.00
  5      50        590      3  380990 9.172E-08 0 0.00
  5      50        591      3  381000 3.280E-08 0 0.00
  5      50        592      3  381010 1.134E-09 0 0.00
  5      50        593      3  381020 1.648E-10 0 0.00
  5      50        594      3  381030 1.716E-12 0 0.00
  5      50        595      3  381040 8.807E-14 0 0.00
  5      50        596      3  390890 9.705E+00 0 0.00
  5      50        597      3  390891 1.143E-11 0 0.00
  5      50        598      3  390900 5.908E-03 0 0.00
  5      50        599      3  390901 2.492E-07 0 0.00
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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:26
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                   CARD IMAGE
UNIT    UNIT     NUMBER
  5      50        600      3  390910 1.302E+01 0 0.00
  5      50        601      3  390911 6.756E-03 0 0.00
  5      50        602      3  390920 5.276E-02 0 0.00
  5      50        603      3  390930 1.683E-01 0 0.00
  5      50        604      3  390940 5.232E-03 0 0.00
  5      50        605      3  390950 3.051E-03 0 0.00
  5      50        606      3  390960 6.357E-04 0 0.00
  5      50        607      3  390970 4.410E-06 0 0.00
  5      50        608      3  390980 8.678E-07 0 0.00
  5      50        609      3  390990 1.347E-06 0 0.00
  5      50        610      3  391000 5.839E-07 0 0.00
  5      50        611      3  391010 2.522E-07 0 0.00
  5      50        612      3  391020 1.656E-08 0 0.00
  5      50        613      3  391030 2.935E-09 0 0.00
  5      50        614      3  391040 8.828E-11 0 0.00
  5      50        615      3  391050 6.019E-12 0 0.00
  5      50        616      3  400900 1.196E-01 0 0.00
  5      50        617      3  400910 1.118E+01 0 0.00
  5      50        618      3  400920 2.550E+01 0 0.00
  5      50        619      3  400930 2.813E+01 0 0.00
  5      50        620      3  400940 2.774E+01 0 0.00
  5      50        621      3  400950 1.672E+01 0 0.00
  5      50        622      3  400960 2.937E+01 0 0.00
  5      50        623      3  400970 2.886E-01 0 0.00
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  5      50        624      3  400980 1.481E-04 0 0.00
  5      50        625      3  400990 1.142E-05 0 0.00
  5      50        626      3  401000 3.175E-05 0 0.00
  5      50        627      3  401010 9.773E-06 0 0.00
  5      50        628      3  401020 4.677E-05 0 0.00
  5      50        629      3  401030 9.943E-07 0 0.00
  5      50        630      3  401040 4.264E-07 0 0.00
  5      50        631      3  401050 8.377E-09 0 0.00
  5      50        632      3  401060 2.208E-09 0 0.00
  5      50        633      3  401070 2.727E-11 0 0.00
  5      50        634      3  401080 1.310E-11 0 0.00
  5      50        635      3  401090 3.233E-13 0 0.00
  5      50        636      3  410930 2.750E-07 0 0.00
  5      50        637      3  410931 2.130E-06 0 0.00
  5      50        638      3  410940 1.205E-05 0 0.00
  5      50        639      3  410941 5.952E-10 0 0.00
  5      50        640      3  410950 6.097E+00 0 0.00
  5      50        641      3  410951 6.787E-03 0 0.00
  5      50        642      3  410960 1.966E-04 0 0.00
  5      50        643      3  410970 2.065E-02 0 0.00
  5      50        644      3  410971 2.698E-04 0 0.00
  5      50        645      3  410980 1.353E-05 0 0.00
  5      50        646      3  410981 1.025E-04 0 0.00
  5      50        647      3  410990 7.015E-05 0 0.00
  5      50        648      3  410991 2.408E-05 0 0.00
  5      50        649      3  411000 6.477E-06 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:26
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                   CARD IMAGE
UNIT    UNIT     NUMBER
  5      50        650      3  411001 6.504E-06 0 0.00
  5      50        651      3  411010 3.097E-05 0 0.00
  5      50        652      3  411020 1.081E-05 0 0.00
  5      50        653      3  411030 3.616E-05 0 0.00
  5      50        654      3  411040 9.832E-07 0 0.00
  5      50        655      3  411050 5.420E-07 0 0.00
  5      50        656      3  411060 4.431E-08 0 0.00
  5      50        657      3  411070 8.289E-09 0 0.00
  5      50        658      3  411080 8.881E-10 0 0.00
  5      50        659      3  411090 2.221E-10 0 0.00
  5      50        660      3  411100 1.172E-11 0 0.00
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5      50      661      3  411110 1.251E-12 0 0.00
5      50      662      3  420950 6.571E+00 0 0.00
5      50      663      3  420960 2.273E-02 0 0.00
5      50      664      3  420970 2.803E+01 0 0.00
5      50      665      3  420980 2.872E+01 0 0.00
5      50      666      3  420990 1.204E+00 0 0.00
5      50      667      3  421000 3.184E+01 0 0.00
5      50      668      3  421010 4.042E-03 0 0.00
5      50      669      3  421020 2.756E-03 0 0.00
5      50      670      3  421030 2.122E-04 0 0.00
5      50      671      3  421040 2.371E-04 0 0.00
5      50      672      3  421050 8.432E-05 0 0.00
5      50      673      3  421060 6.431E-06 0 0.00
5      50      674      3  421070 1.498E-06 0 0.00
5      50      675      3  421080 1.412E-07 0 0.00
5      50      676      3  421090 3.679E-08 0 0.00
5      50      677      3  421100 1.791E-08 0 0.00
5      50      678      3  421110 8.222E-10 0 0.00
5      50      679      3  421120 2.704E-10 0 0.00
5      50      680      3  421130 5.552E-12 0 0.00
5      50      681      3  421140 9.374E-13 0 0.00
5      50      682      3  421150 2.286E-14 0 0.00
5      50      683      3  430980 1.322E-05 0 0.00
5      50      684      3  430990 2.852E+01 0 0.00
5      50      685      3  430991 9.612E-02 0 0.00
5      50      686      3  431000 9.232E-07 0 0.00
5      50      687      3  431010 3.926E-03 0 0.00
5      50      688      3  431020 2.187E-05 0 0.00
5      50      689      3  431021 7.939E-07 0 0.00
5      50      690      3  431030 1.788E-04 0 0.00
5      50      691      3  431040 2.849E-03 0 0.00
5      50      692      3  431050 8.980E-04 0 0.00
5      50      693      3  431060 4.030E-05 0 0.00
5      50      694      3  431070 1.509E-05 0 0.00
5      50      695      3  431080 1.629E-06 0 0.00
5      50      696      3  431090 8.596E-06 0 0.00
5      50      697      3  431100 4.683E-08 0 0.00
5      50      698      3  431110 3.285E-08 0 0.00
5      50      699      3  431120 3.427E-09 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:26
LISTING OF INPUT DATA ON UNIT = 5
```

INPUT UNIT	WRITE UNIT	CARD NUMBER	CARD IMAGE
5	50	700	3 431130 1.220E-09 0 0.00
5	50	701	3 431140 1.074E-10 0 0.00
5	50	702	3 431150 2.946E-11 0 0.00
5	50	703	3 431160 8.802E-13 0 0.00
5	50	704	3 431170 4.849E-14 0 0.00
5	50	705	3 440990 1.501E-05 0 0.00
5	50	706	3 441000 1.764E-01 0 0.00
5	50	707	3 441010 2.676E+01 0 0.00
5	50	708	3 441020 2.371E+01 0 0.00
5	50	709	3 441030 8.690E+00 0 0.00
5	50	710	3 441040 1.362E+01 0 0.00
5	50	711	3 441050 3.015E-02 0 0.00
5	50	712	3 441060 4.966E+00 0 0.00
5	50	713	3 441070 2.035E-04 0 0.00
5	50	714	3 441080 1.423E-04 0 0.00
5	50	715	3 441090 1.185E-05 0 0.00
5	50	716	3 441100 2.638E-06 0 0.00
5	50	717	3 441110 1.426E-06 0 0.00
5	50	718	3 441120 3.778E-08 0 0.00
5	50	719	3 441130 9.541E-08 0 0.00
5	50	720	3 441140 8.928E-08 0 0.00
5	50	721	3 441150 6.341E-09 0 0.00
5	50	722	3 441160 2.779E-09 0 0.00
5	50	723	3 441170 9.625E-11 0 0.00
5	50	724	3 441180 1.224E-09 0 0.00
5	50	725	3 441200 1.233E-13 0 0.00
5	50	726	3 451020 1.377E-06 0 0.00
5	50	727	3 451030 1.041E+01 0 0.00
5	50	728	3 451031 7.766E-03 0 0.00
5	50	729	3 451040 6.083E-06 0 0.00
5	50	730	3 451041 2.712E-06 0 0.00
5	50	731	3 451050 2.135E-01 0 0.00
5	50	732	3 451051 2.378E-05 0 0.00
5	50	733	3 451060 9.007E-06 0 0.00
5	50	734	3 451061 5.586E-04 0 0.00
5	50	735	3 451070 1.057E-03 0 0.00
5	50	736	3 451080 8.935E-06 0 0.00
5	50	737	3 451081 1.728E-06 0 0.00
5	50	738	3 451090 3.141E-05 0 0.00
5	50	739	3 451091 8.725E-06 0 0.00
5	50	740	3 451100 5.060E-06 0 0.00

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   5      50        741      3  451101 2.892E-08 0 0.00
   5      50        742      3  451110 7.204E-06 0 0.00
   5      50        743      3  451120 3.475E-07 0 0.00
   5      50        744      3  451130 5.458E-08 0 0.00
   5      50        745      3  451140 7.070E-08 0 0.00
   5      50        746      3  451150 2.119E-07 0 0.00
   5      50        747      3  451160 1.460E-08 0 0.00
   5      50        748      3  451170 1.268E-08 0 0.00
   5      50        749      3  451180 4.566E-09 0 0.00
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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:26
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                  CARD IMAGE
UNIT    UNIT     NUMBER
   5      50        750      3  451190 4.526E-10 0 0.00
   5      50        751      3  451200 3.086E-11 0 0.00
   5      50        752      3  451210 6.690E-12 0 0.00
   5      50        753      3  451220 3.899E-13 0 0.00
   5      50        754      3  451230 4.283E-14 0 0.00
   5      50        755      3  461040 3.442E-01 0 0.00
   5      50        756      3  461050 8.029E+00 0 0.00
   5      50        757      3  461060 1.533E+00 0 0.00
   5      50        758      3  461070 3.400E+00 0 0.00
   5      50        759      3  461071 1.244E-10 0 0.00
   5      50        760      3  461080 2.171E+00 0 0.00
   5      50        761      3  461090 1.711E-02 0 0.00
   5      50        762      3  461091 4.913E-05 0 0.00
   5      50        763      3  461100 8.137E-01 0 0.00
   5      50        764      3  461110 1.526E-04 0 0.00
   5      50        765      3  461111 2.520E-05 0 0.00
   5      50        766      3  461120 5.585E-03 0 0.00
   5      50        767      3  461130 6.149E-06 0 0.00
   5      50        768      3  461140 7.766E-06 0 0.00
   5      50        769      3  461150 2.178E-06 0 0.00
   5      50        770      3  461160 6.441E-07 0 0.00
   5      50        771      3  461170 2.225E-07 0 0.00
   5      50        772      3  461180 1.144E-07 0 0.00
   5      50        773      3  461190 4.002E-08 0 0.00
   5      50        774      3  461200 4.546E-08 0 0.00
   5      50        775      3  461210 2.626E-09 0 0.00
   5      50        776      3  461220 1.666E-09 0 0.00
   5      50        777      3  461230 9.381E-11 0 0.00
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  5      50        778      3  461240 3.111E-11 0 0.00
  5      50        779      3  461260 2.224E-13 0 0.00
  5      50        780      3  471070 4.998E-08 0 0.00
  5      50        781      3  471080 2.451E-11 0 0.00
  5      50        782      3  471081 1.243E-08 0 0.00
  5      50        783      3  471090 1.371E+00 0 0.00
  5      50        784      3  471091 1.398E-05 0 0.00
  5      50        785      3  471100 3.805E-07 0 0.00
  5      50        786      3  471101 1.885E-03 0 0.00
  5      50        787      3  471110 7.138E-02 0 0.00
  5      50        788      3  471111 7.482E-06 0 0.00
  5      50        789      3  471120 8.721E-04 0 0.00
  5      50        790      3  471130 1.175E-03 0 0.00
  5      50        791      3  471131 4.549E-07 0 0.00
  5      50        792      3  471140 2.459E-07 0 0.00
  5      50        793      3  471150 5.117E-05 0 0.00
  5      50        794      3  471151 2.752E-07 0 0.00
  5      50        795      3  471160 4.017E-06 0 0.00
  5      50        796      3  471161 2.598E-07 0 0.00
  5      50        797      3  471170 1.855E-06 0 0.00
  5      50        798      3  471171 1.343E-07 0 0.00
  5      50        799      3  471180 1.298E-07 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:26
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                    CARD IMAGE
UNIT    UNIT     NUMBER
  5      50        800      3  471181 6.532E-08 0 0.00
  5      50        801      3  471190 2.739E-07 0 0.00
  5      50        802      3  471200 4.110E-08 0 0.00
  5      50        803      3  471210 7.575E-08 0 0.00
  5      50        804      3  471220 1.602E-09 0 0.00
  5      50        805      3  471230 7.393E-09 0 0.00
  5      50        806      3  471240 1.039E-09 0 0.00
  5      50        807      3  471250 4.385E-10 0 0.00
  5      50        808      3  471260 5.440E-11 0 0.00
  5      50        809      3  471280 1.313E-12 0 0.00
  5      50        810      3  481080 4.250E-07 0 0.00
  5      50        811      3  481100 3.880E-02 0 0.00
  5      50        812      3  481110 4.943E-01 0 0.00
  5      50        813      3  481111 4.963E-10 0 0.00
  5      50        814      3  481120 4.118E-01 0 0.00
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  5      50        815      3  481130 4.314E-02 0 0.00
  5      50        816      3  481131 6.476E-03 0 0.00
  5      50        817      3  481140 6.408E-01 0 0.00
  5      50        818      3  481150 1.035E-02 0 0.00
  5      50        819      3  481151 1.432E-02 0 0.00
  5      50        820      3  481160 2.911E-01 0 0.00
  5      50        821      3  481170 3.108E-04 0 0.00
  5      50        822      3  481171 2.201E-04 0 0.00
  5      50        823      3  481180 1.548E-04 0 0.00
  5      50        824      3  481190 1.436E-05 0 0.00
  5      50        825      3  481191 4.890E-06 0 0.00
  5      50        826      3  481200 2.611E-06 0 0.00
  5      50        827      3  481210 6.630E-07 0 0.00
  5      50        828      3  481220 2.829E-07 0 0.00
  5      50        829      3  481230 4.210E-07 0 0.00
  5      50        830      3  481240 8.049E-07 0 0.00
  5      50        831      3  481250 5.097E-08 0 0.00
  5      50        832      3  481260 9.159E-08 0 0.00
  5      50        833      3  481270 7.773E-09 0 0.00
  5      50        834      3  481280 5.980E-09 0 0.00
  5      50        835      3  481290 6.727E-10 0 0.00
  5      50        836      3  481300 1.172E-09 0 0.00
  5      50        837      3  481310 4.227E-11 0 0.00
  5      50        838      3  481320 4.796E-12 0 0.00
  5      50        839      3  491130 4.790E-05 0 0.00
  5      50        840      3  491140 7.734E-12 0 0.00
  5      50        841      3  491150 2.623E-01 0 0.00
  5      50        842      3  491151 8.344E-04 0 0.00
  5      50        843      3  491160 1.147E-07 0 0.00
  5      50        844      3  491161 2.084E-05 0 0.00
  5      50        845      3  491170 8.085E-05 0 0.00
  5      50        846      3  491171 2.709E-04 0 0.00
  5      50        847      3  491180 2.565E-07 0 0.00
  5      50        848      3  491181 3.300E-09 0 0.00
  5      50        849      3  491190 2.201E-06 0 0.00
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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:26
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE     CARD                                  CARD IMAGE
UNIT    UNIT      NUMBER
  5      50        850      3  491191 4.130E-05 0 0.00
  5      50        851      3  491200 1.158E-06 0 0.00
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5	50	852	3	491201	8.029E-08	0	0.00
5	50	853	3	491210	1.223E-06	0	0.00
5	50	854	3	491211	2.125E-06	0	0.00
5	50	855	3	491220	5.445E-07	0	0.00
5	50	856	3	491221	4.537E-09	0	0.00
5	50	857	3	491230	2.695E-07	0	0.00
5	50	858	3	491231	8.654E-07	0	0.00
5	50	859	3	491240	2.355E-07	0	0.00
5	50	860	3	491250	9.968E-08	0	0.00
5	50	861	3	491251	3.650E-07	0	0.00
5	50	862	3	491260	1.560E-07	0	0.00
5	50	863	3	491270	1.103E-07	0	0.00
5	50	864	3	491271	2.010E-07	0	0.00
5	50	865	3	491280	3.716E-07	0	0.00
5	50	866	3	491290	6.437E-08	0	0.00
5	50	867	3	491300	5.609E-08	0	0.00
5	50	868	3	491310	1.192E-08	0	0.00
5	50	869	3	491320	1.340E-09	0	0.00
5	50	870	3	491330	1.356E-10	0	0.00
5	50	871	3	491340	5.033E-12	0	0.00
5	50	872	3	501140	2.127E-07	0	0.00
5	50	873	3	501150	1.115E-02	0	0.00
5	50	874	3	501160	4.549E-02	0	0.00
5	50	875	3	501170	2.966E-01	0	0.00
5	50	876	3	501171	2.575E-06	0	0.00
5	50	877	3	501180	2.990E-01	0	0.00
5	50	878	3	501190	2.924E-01	0	0.00
5	50	879	3	501191	3.654E-03	0	0.00
5	50	880	3	501200	3.033E-01	0	0.00
5	50	881	3	501210	5.251E-03	0	0.00
5	50	882	3	501211	7.678E-05	0	0.00
5	50	883	3	501220	3.359E-01	0	0.00
5	50	884	3	501230	5.538E-02	0	0.00
5	50	885	3	501231	1.263E-04	0	0.00
5	50	886	3	501240	4.512E-01	0	0.00
5	50	887	3	501250	3.298E-02	0	0.00
5	50	888	3	501251	3.828E-05	0	0.00
5	50	889	3	501260	8.510E-01	0	0.00
5	50	890	3	501270	1.522E-03	0	0.00
5	50	891	3	501271	2.288E-05	0	0.00
5	50	892	3	501280	1.910E-03	0	0.00
5	50	893	3	501290	1.539E-04	0	0.00
5	50	894	3	501291	6.643E-05	0	0.00

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   5      50        895      3  501300 2.723E-04 0 0.00
   5      50        896      3  501310 7.382E-05 0 0.00
   5      50        897      3  501320 2.807E-05 0 0.00
   5      50        898      3  501330 3.269E-07 0 0.00
   5      50        899      3  501340 2.362E-08 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:26
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                    CARD IMAGE
UNIT    UNIT     NUMBER
   5      50        900      3  501350 9.795E-10 0 0.00
   5      50        901      3  501360 1.187E-10 0 0.00
   5      50        902      3  511210 3.104E-01 0 0.00
   5      50        903      3  511220 1.011E-04 0 0.00
   5      50        904      3  511221 1.008E-09 0 0.00
   5      50        905      3  511230 3.233E-01 0 0.00
   5      50        906      3  511240 6.308E-04 0 0.00
   5      50        907      3  511241 1.501E-09 0 0.00
   5      50        908      3  511250 5.459E-01 0 0.00
   5      50        909      3  511260 2.073E-03 0 0.00
   5      50        910      3  511261 1.245E-06 0 0.00
   5      50        911      3  511270 1.031E-01 0 0.00
   5      50        912      3  511280 1.182E-03 0 0.00
   5      50        913      3  511281 3.575E-04 0 0.00
   5      50        914      3  511290 1.559E-02 0 0.00
   5      50        915      3  511300 7.442E-04 0 0.00
   5      50        916      3  511301 6.040E-04 0 0.00
   5      50        917      3  511310 4.158E-03 0 0.00
   5      50        918      3  511320 3.226E-04 0 0.00
   5      50        919      3  511321 3.049E-04 0 0.00
   5      50        920      3  511330 3.511E-04 0 0.00
   5      50        921      3  511340 4.012E-06 0 0.00
   5      50        922      3  511341 3.603E-06 0 0.00
   5      50        923      3  511350 4.139E-07 0 0.00
   5      50        924      3  511360 1.081E-08 0 0.00
   5      50        925      3  511370 1.858E-09 0 0.00
   5      50        926      3  511380 1.056E-10 0 0.00
   5      50        927      3  511390 1.027E-11 0 0.00
   5      50        928      3  521220 1.219E-03 0 0.00
   5      50        929      3  521230 1.519E-06 0 0.00
   5      50        930      3  521231 4.750E-07 0 0.00
   5      50        931      3  521240 3.200E-04 0 0.00
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   5      50        932      3  521250 1.792E-02 0 0.00
   5      50        933      3  521251 3.188E-03 0 0.00
   5      50        934      3  521260 1.320E-02 0 0.00
   5      50        935      3  521270 9.538E-03 0 0.00
   5      50        936      3  521271 1.568E-01 0 0.00
   5      50        937      3  521280 3.383E+00 0 0.00
   5      50        938      3  521290 4.020E-03 0 0.00
   5      50        939      3  521291 3.237E-01 0 0.00
   5      50        940      3  521300 1.118E+01 0 0.00
   5      50        941      3  521310 4.670E-03 0 0.00
   5      50        942      3  521311 5.106E-02 0 0.00
   5      50        943      3  521320 1.430E+00 0 0.00
   5      50        944      3  521330 3.350E-03 0 0.00
   5      50        945      3  521331 1.010E-02 0 0.00
   5      50        946      3  521340 1,767E-02 0 0.00
   5      50        947      3  521350 6.933E-05 0 0.00
   5      50        948      3  521360 4.305E-05 0 0.00
   5      50        949      3  521370 1.944E-06 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:26
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE   CARD                                  CARD IMAGE
UNIT    UNIT    NUMBER
   5      50        950      3  521380 2.348E-07 0 0.00
   5      50        951      3  521390 1.176E-08 0 0.00
   5      50        952      3  521400 2.581E-09 0 0.00
   5      50        953      3  521410 3.641E-11 0 0.00
   5      50        954      3  521420 7.664E-12 0 0.00
   5      50        955      3  531270 1.406E+00 0 0.00
   5      50        956      3  531280 2.467E-06 0 0.00
   5      50        957      3  531290 5.357E+00 0 0.00
   5      50        958      3  531300 3.585E-04 0 0.00
   5      50        959      3  531301 1.690E-06 0 0.00
   5      50        960      3  531310 2.357E+00 0 0.00
   5      50        961      3  531320 4.251E-02 0 0.00
   5      50        962      3  531330 5.726E-01 0 0.00
   5      50        963      3  531331 1.663E-06 0 0.00
   5      50        964      3  531340 2.699E-02 0 0.00
   5      50        965      3  531341 1.433E-04 0 0.00
   5      50        966      3  531350 1.716E-01 0 0.00
   5      50        967      3  531360 2.929E-04 0 0.00
   5      50        968      3  531361 9.776E-05 0 0.00
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   5      50        969      3  531370 9.010E-05 0 0.00
   5      50        970      3  531380 1.223E-05 0 0.00
   5      50        971      3  531390 2.130E-06 0 0.00
   5      50        972      3  531400 2.317E-07 0 0.00
   5      50        973      3  531410 1.787E-08 0 0.00
   5      50        974      3  531420 1.152E-09 0 0.00
   5      50        975      3  531430 1.207E-10 0 0.00
   5      50        976      3  531440 3.950E-12 0 0.00
   5      50        977      3  541280 4.495E-03 0 0.00
   5      50        978      3  541290 7.014E-06 0 0.00
   5      50        979      3  541300 2.593E-02 0 0.00
   5      50        980      3  541310 1.724E+01 0 0.00
   5      50        981      3  541311 3.519E-02 0 0.00
   5      50        982      3  541320 2.883E+01 0 0.00
   5      50        983      3  541330 3.350E+00 0 0.00
   5      50        984      3  541331 4.371E-02 0 0.00
   5      50        985      3  541340 5.123E+01 0 0.00
   5      50        986      3  541341 1.179E-08 0 0.00
   5      50        987      3  541350 6.473E-02 0 0.00
   5      50        988      3  541351 1.289E-03 0 0.00
   5      50        989      3  541360 7.745E+01 0 0.00
   5      50        990      3  541370 1.584E-03 0 0.00
   5      50        991      3  541380 5.896E-03 0 0.00
   5      50        992      3  541390 2.210E-04 0 0.00
   5      50        993      3  541400 5.265E-05 0 0.00
   5      50        994      3  541410 2.334E-06 0 0.00
   5      50        995      3  541420 5.980E-07 0 0.00
   5      50        996      3  541430 2.331E-08 0 0.00
   5      50        997      3  541440 1.362E-08 0 0.00
   5      50        998      3  541450 1.187E-09 0 0.00
   5      50        999      3  541460 8.547E-11 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:26
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                   CARD IMAGE
UNIT    UNIT     NUMBER
   5      50       1000      3  541470 2.126E-12 0 0.00
   5      50       1001      3  551320 3.159E-05 0 0.00
   5      50       1002      3  551330 4.076E+01 0 0.00
   5      50       1003      3  551340 4.190E-01 0 0.00
   5      50       1004      3  551341 1.477E-04 0 0.00
   5      50       1005      3  551350 1.148E+01 0 0.00
```

5	50	1006	3	551351	6.397E-06	0	0.00
5	50	1007	3	551360	3.921E-02	0	0.00
5	50	1008	3	551370	4.199E+01	0	0.00
5	50	1009	3	551380	1.462E-02	0	0.00
5	50	1010	3	551381	5.372E-05	0	0.00
5	50	1011	3	551390	4.083E-03	0	0.00
5	50	1012	3	551400	4.199E-04	0	0.00
5	50	1013	3	551410	1.263E-04	0	0.00
5	50	1014	3	551420	5.477E-06	0	0.00
5	50	1015	3	551430	2.874E-06	0	0.00
5	50	1016	3	551440	4.432E-07	0	0.00
5	50	1017	3	551450	6.196E-08	0	0.00
5	50	1018	3	551460	3.052E-09	0	0.00
5	50	1019	3	551470	1.488E-09	0	0.00
5	50	1020	3	551480	3.449E-11	0	0.00
5	50	1021	3	551500	2.008E-14	0	0.00
5	50	1022	3	561320	2.940E-06	0	0.00
5	50	1023	3	561340	1.375E-02	0	0.00
5	50	1024	3	561350	1.411E-05	0	0.00
5	50	1025	3	561351	1.208E-07	0	0.00
5	50	1026	3	561360	1.163E-01	0	0.00
5	50	1027	3	561361	1.758E-09	0	0.00
5	50	1028	3	561370	1.613E-01	0	0.00
5	50	1029	3	561371	6.508E-06	0	0.00
5	50	1030	3	561380	4.574E+01	0	0.00
5	50	1031	3	561390	3.665E-02	0	0.00
5	50	1032	3	561400	7.500E+00	0	0.00
5	50	1033	3	561410	7.494E-03	0	0.00
5	50	1034	3	561420	4.278E-03	0	0.00
5	50	1035	3	561430	8.191E-05	0	0.00
5	50	1036	3	561440	5.244E-05	0	0.00
5	50	1037	3	561450	1.476E-05	0	0.00
5	50	1038	3	561460	1.939E-06	0	0.00
5	50	1039	3	561470	4.528E-07	0	0.00
5	50	1040	3	561480	2.072E-07	0	0.00
5	50	1041	3	561490	3.572E-09	0	0.00
5	50	1042	3	561500	5.253E-10	0	0.00
5	50	1043	3	561520	6.000E-13	0	0.00
5	50	1044	3	571380	3.308E-04	0	0.00
5	50	1045	3	571390	4.398E+01	0	0.00
5	50	1046	3	571400	9.897E-01	0	0.00
5	50	1047	3	571410	9.714E-02	0	0.00
5	50	1048	3	571420	3.780E-02	0	0.00

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   5      50        1049      3  571430 5.629E-03 0 0.00
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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:26
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE     CARD                                CARD IMAGE
UNIT    UNIT      NUMBER
   5      50        1050      3  571440 2.427E-04 0 0.00
   5      50        1051      3  571450 1.252E-04 0 0.00
   5      50        1052      3  571460 2.318E-05 0 0.00
   5      50        1053      3  571470 1.355E-05 0 0.00
   5      50        1054      3  571480 6.525E-07 0 0.00
   5      50        1055      3  571490 3.471E-07 0 0.00
   5      50        1056      3  571500 1.469E-08 0 0.00
   5      50        1057      3  571510 2.761E-09 0 0.00
   5      50        1058      3  571520 1.044E-10 0 0.00
   5      50        1059      3  571530 1.579E-11 0 0.00
   5      50        1060      3  571540 2.967E-13 0 0.00
   5      50        1061      3  581400 3.578E+01 0 0.00
   5      50        1062      3  581410 1.541E+01 0 0.00
   5      50        1063      3  581420 4.063E+01 0 0.00
   5      50        1064      3  581430 7.996E-01 0 0.00
   5      50        1065      3  581440 3.230E+01 0 0.00
   5      50        1066      3  581450 8.283E-04 0 0.00
   5      50        1067      3  581460 3.076E-03 0 0.00
   5      50        1068      3  581470 1.927E-04 0 0.00
   5      50        1069      3  581480 8.445E-05 0 0.00
   5      50        1070      3  581490 1.061E-06 0 0.00
   5      50        1071      3  581500 4.591E-07 0 0.00
   5      50        1072      3  581510 1.346E-07 0 0.00
   5      50        1073      3  581520 4.255E-07 0 0.00
   5      50        1074      3  581530 9.594E-09 0 0.00
   5      50        1075      3  581540 2.358E-09 0 0.00
   5      50        1076      3  581550 5.624E-11 0 0.00
   5      50        1077      3  581560 8.836E-12 0 0.00
   5      50        1078      3  581570 2.225E-13 0 0.00
   5      50        1079      3  591400 7.503E-10 0 0.00
   5      50        1080      3  591410 2.523E+01 0 0.00
   5      50        1081      3  591420 8.474E-04 0 0.00
   5      50        1082      3  591421 2.301E-06 0 0.00
   5      50        1083      3  591430 7.190E+00 0 0.00
   5      50        1084      3  591440 1.387E-03 0 0.00
   5      50        1085      3  591441 6.840E-06 0 0.00
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   5      50        1086      3  591450 9.909E-02 0 0.00
   5      50        1087      3  591460 5.258E-03 0 0.00
   5      50        1088      3  591470 2.031E-03 0 0.00
   5      50        1089      3  591480 2.997E-04 0 0.00
   5      50        1090      3  591490 2.008E-04 0 0.00
   5      50        1091      3  591500 1.112E-05 0 0.00
   5      50        1092      3  591510 1.923E-06 0 0.00
   5      50        1093      3  591520 1.730E-06 0 0.00
   5      50        1094      3  591530 5.117E-07 0 0.00
   5      50        1095      3  591540 1.965E-08 0 0.00
   5      50        1096      3  591550 5.844E-09 0 0.00
   5      50        1097      3  591560 2.930E-10 0 0.00
   5      50        1098      3  591570 6.651E-11 0 0.00
   5      50        1099      3  591580 2.051E-12 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:26
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                    CARD IMAGE
UNIT    UNIT     NUMBER
   5      50        1100      3  591590 1.007E-13 0 0.00
   5      50        1101      3  601420 3.021E-02 0 0.00
   5      50        1102      3  601430 3.170E+01 0 0.00
   5      50        1103      3  601440 5.896E+00 0 0.00
   5      50        1104      3  601450 2.732E+01 0 0.00
   5      50        1105      3  601460 2.191E+01 0 0.00
   5      50        1106      3  601470 2.587E+00 0 0.00
   5      50        1107      3  601480 1.289E+01 0 0.00
   5      50        1108      3  601490 9.233E-03 0 0.00
   5      50        1109      3  601500 5.574E+00 0 0.00
   5      50        1110      3  601510 5.036E-04 0 0.00
   5      50        1111      3  601520 3.134E-04 0 0.00
   5      50        1112      3  601530 1.784E-05 0 0.00
   5      50        1113      3  601540 4.847E-06 0 0.00
   5      50        1114      3  601550 1.183E-06 0 0.00
   5      50        1115      3  601560 8.530E-07 0 0.00
   5      50        1116      3  601570 1.729E-08 0 0.00
   5      50        1117      3  601580 5.147E-09 0 0.00
   5      50        1118      3  601590 1.014E-10 0 0.00
   5      50        1119      3  601600 1.484E-11 0 0.00
   5      50        1120      3  601610 3.118E-13 0 0.00
   5      50        1121      3  611460 2.665E-05 0 0.00
   5      50        1122      3  611470 1.229E+01 0 0.00
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  5      50        1123      3  611480 1.247E-01 0 0.00
  5      50        1124      3  611481 1.067E-01 0 0.00
  5      50        1125      3  611490 2.912E-01 0 0.00
  5      50        1126      3  611500 1.031E-04 0 0.00
  5      50        1127      3  611510 6.935E-02 0 0.00
  5      50        1128      3  611520 1.140E-04 0 0.00
  5      50        1129      3  611521 3.355E-06 0 0.00
  5      50        1130      3  611530 9.598E-05 0 0.00
  5      50        1131      3  611540 2.456E-05 0 0.00
  5      50        1132      3  611541 2.454E-06 0 0.00
  5      50        1133      3  611550 3.160E-06 0 0.00
  5      50        1134      3  611560 5.547E-07 0 0.00
  5      50        1135      3  611570 1.314E-06 0 0.00
  5      50        1136      3  611580 2.241E-08 0 0.00
  5      50        1137      3  611590 5.580E-09 0 0.00
  5      50        1138      3  611600 2.643E-10 0 0.00
  5      50        1139      3  611610 4.075E-11 0 0.00
  5      50        1140      3  611620 7.958E-13 0 0.00
  5      50        1141      3  621460 1.910E-06 0 0.00
  5      50        1142      3  621470 4.965E-01 0 0.00
  5      50        1143      3  621480 8.069E-01 0 0.00
  5      50        1144      3  621490 5.768E-01 0 0.00
  5      50        1145      3  621500 7.918E+00 0 0.00
  5      50        1146      3  621510 2.263E+00 0 0.00
  5      50        1147      3  621520 3.895E+00 0 0.00
  5      50        1148      3  621530 6.572E-02 0 0.00
  5      50        1149      3  621540 8.773E-01 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:26
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                    CARD IMAGE
UNIT    UNIT     NUMBER
  5      50        1150      3  621550 1.276E-04 0 0.00
  5      50        1151      3  621560 1.893E-03 0 0.00
  5      50        1152      3  621570 1.653E-05 0 0.00
  5      50        1153      3  621580 4.618E-05 0 0.00
  5      50        1154      3  621590 1.248E-06 0 0.00
  5      50        1155      3  621600 1.045E-06 0 0.00
  5      50        1156      3  621610 1.081E-08 0 0.00
  5      50        1157      3  621620 2.907E-09 0 0.00
  5      50        1158      3  621630 5.118E-11 0 0.00
  5      50        1159      3  621640 8.694E-12 0 0.00
```

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5     50     1160     3  621650 1.302E-13 0 0.00
5     50     1161     3  631510 2.058E-03 0 0.00
5     50     1162     3  631520 9.892E-04 0 0.00
5     50     1163     3  631521 5.210E-06 0 0.00
5     50     1164     3  631530 1.701E+00 0 0.00
5     50     1165     3  631540 1.066E-01 0 0.00
5     50     1166     3  631550 1.791E-01 0 0.00
5     50     1167     3  631560 1.499E-01 0 0.00
5     50     1168     3  631570 2.074E-03 0 0.00
5     50     1169     3  631580 5.161E-05 0 0.00
5     50     1170     3  631590 1.018E-05 0 0.00
5     50     1171     3  631600 2.263E-07 0 0.00
5     50     1172     3  631610 8.216E-08 0 0.00
5     50     1173     3  631620 1.889E-07 0 0.00
5     50     1174     3  631630 2.776E-09 0 0.00
5     50     1175     3  631640 9.702E-11 0 0.00
5     50     1176     3  631650 2.068E-11 0 0.00
5     50     1177     3  641520 2.893E-04 0 0.00
5     50     1178     3  641530 2.006E-05 0 0.00
5     50     1179     3  641540 8.760E-04 0 0.00
5     50     1180     3  641550 1.119E-03 0 0.00
5     50     1181     3  641560 4.072E-01 0 0.00
5     50     1182     3  641570 9.377E-03 0 0.00
5     50     1183     3  641580 2.457E-01 0 0.00
5     50     1184     3  641590 6.411E-04 0 0.00
5     50     1185     3  641600 1.953E-02 0 0.00
5     50     1186     3  641610 4.966E-07 0 0.00
5     50     1187     3  641620 7.279E-07 0 0.00
5     50     1188     3  641630 4.834E-08 0 0.00
5     50     1189     3  641640 2.999E-07 0 0.00
5     50     1190     3  641650 8.792E-09 0 0.00
5     50     1191     3  651590 4.021E-02 0 0.00
5     50     1192     3  651600 2.922E-04 0 0.00
5     50     1193     3  651610 1.266E-03 0 0.00
5     50     1194     3  651620 5.380E-07 0 0.00
5     50     1195     3  651621 2.874E-07 0 0.00
5     50     1196     3  651630 6.526E-07 0 0.00
5     50     1197     3  651640 4.988E-08 0 0.00
5     50     1198     3  651650 4.334E-09 0 0.00
5     50     1199     3  661600 1.006E-04 0 0.00
```


ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26
LISTING OF INPUT DATA ON UNIT = 5

```
INPUT   WRITE    CARD                                  CARD IMAGE
UNIT    UNIT     NUMBER
   5      50       1200      3  661610 7.937E-03 0 0.00
   5      50       1201      3  661620 5.518E-03 0 0.00
   5      50       1202      3  661630 2.710E-03 0 0.00
   5      50       1203      3  661640 1.124E-03 0 0.00
   5      50       1204      3  661650 1.960E-06 0 0.00
   5      50       1205      3  661651 8.290E-09 0 0.00
   5      50       1206      3  661660 2.365E-05 0 0.00
   5      50       1207      3  671650 9.208E-04 0 0.00
   5      50       1208      3  671660 8.360E-06 0 0.00
   5      50       1209      3  671661 1.000E-06 0 0.00
   5      50       1210      3  681660 3.742E-04 0 0.00
   5      50       1211      3  681670 1.741E-04 0 0.00
   5      50       1212      3  681671 4.976E-13 0 0.00
   5      50       1213      3  681680 2.780E-05 0 0.00
   5      50       1214      0
```

OUTPUT UNIT = 6 PAGE 28

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26
NEUTRON YIELD PER NEUTRON-INDUCED FISSION

NUCLIDE	YIELD	NUCLIDE	YIELD	NUCLIDE	YIELD	NUCLIDE	YIELD	NUCLIDE	YIELD	NUCLIDE	YIELD
832090	0.0000	882230	0.0000	882260	0.0000	882280	0.0000	892270	0.0000	902270	0.0000
902280	0.0000	902290	2.0490	902300	0.0000	902320	2.4180	902330	0.0000	902340	0.0000
912310	0.0000	912320	0.0000	912330	2.6630	912341	0.0000	912340	0.0000	922300	0.0000
922310	0.0000	922320	0.0000	922330	2.4990	922340	2.6310	922350	2.4210	922360	2.7340
922370	0.0000	922380	2.8010	922390	0.0000	922400	0.0000	932360	0.0000	932370	3.0050
932380	0.0000	932390	0.0000	942360	2.8700	942370	0.0000	942380	2.8330	942390	2.8750
942400	3.1350	942410	2.9340	942420	3.2800	942430	0.0000	952410	3.2770	952421	3.1620
952420	3.3600	952430	3.7320	952441	0.0000	952440	0.0000	962420	3.7460	962430	3.4340
962440	3.7250	962450	3.8320	962460	3.8580	962470	3.5920	962480	3.7960	962490	0.0000
972490	3.7600	982490	4.0620	982500	3.9700	982510	4.1400	982520	4.1260	982530	4.1500

982540	0.0000	992530	0.0000	992541	0.0000	992540	0.0000	0	0.0000	0	0.0000

OUTPUT UNIT = 6 PAGE 29

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26
SPONTANEOUS FISSION NEUTRON YIELD, NEUT/FISSION

NUCLIDE		NUCLIDE		NUCLIDE		NUCLIDE		NUCLIDE		NUCLIDE	
922350	1.6950	922360	1.6500	922370	1.8720	922380	2.0000	922390	2.0480	932361	1.7900
932360	1.7830	932370	1.8730	932380	1.9630	932390	2.0530	942360	2.2200	942370	1.8860
942380	2.2800	942390	2.2400	942400	2.1600	942410	2.2500	942420	2.1500	942430	2.4300
942440	2.3000	952400	2.2900	952410	2.3830	952420	2.4750	952421	2.5900	952430	2.5200
952440	2.6570	952441	2.6650	962410	2.5000	962420	2.5900	962430	2.6870	962440	2.7600
962450	2.8720	962460	3.0000	962480	3.3200	962500	3.5600	972490	3.7200	982490	3.4400
982500	3.5600	982520	3.7250	982540	3.9000	992530	3.9200	992540	4.0400	992550	4.1600

THE REMAINING NEUTRON YIELDS ARE CALCULATED FROM THE EQUATION: NEUT/FISS=(2.84+0.1225*(AT WT-244)

OUTPUT UNIT = 6 PAGE 30

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26
INDIVIDUAL ELEMENT FRACTIONAL RECOVERIES

ELEMENT	SET NUMBER 1	SET NUMBER 2	SET NUMBER 3	SET NUMBER 4	SET NUMBER 5	SET NUMBER 6	SET NUMBER 7	SET NUMBER 8	SET NUMBER 9	SET NUMBER 10
1	0.0000000	0.0000000	0.0005000	0.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.9000000	1.0000000
2	0.0000000	0.0000000	0.0005000	0.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.0000000	1.0000000
3	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
4	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
5	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
6	0.0000000	0.0000000	0.0005000	0.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.0000000	1.0000000
7	0.0000000	0.0000000	0.0005000	0.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.0000000	1.0000000
8	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
9	0.0000000	0.0010000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
10	0.0000000	0.0000000	0.0005000	0.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.0000000	1.0000000
11	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
12	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
13	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
14	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
15	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
16	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
17	0.0000000	0.0010000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
18	0.0000000	0.0000000	0.0005000	0.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.0000000	1.0000000
19	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
20	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
21	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000

22	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
23	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
24	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
25	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
26	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
27	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
28	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
29	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
30	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
31	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
32	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
33	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
34	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
35	0.0000000	0.0010000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
36	0.0000000	0.0000000	0.0005000	0.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.0000000	1.0000000
37	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
38	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
39	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
40	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
41	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
42	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
43	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
44	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
45	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
46	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
47	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
48	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
49	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000

OUTPUT UNIT = 6

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26
INDIVIDUAL ELEMENT FRACTIONAL RECOVERIES

ELEMENT	SET NUMBER 1	SET NUMBER 2	SET NUMBER 3	SET NUMBER 4	SET NUMBER 5	SET NUMBER 6	SET NUMBER 7	SET NUMBER 8	SET NUMBER 9	SET NUMBER 10
50	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
51	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
52	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
53	0.0000000	0.0010000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
54	0.0000000	0.0000000	0.0005000	0.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.0000000	1.0000000
55	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
56	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
57	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
58	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000

59	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
60	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
61	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
62	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
63	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
64	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
65	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
66	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
67	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
68	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
69	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
70	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
71	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
72	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
73	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
74	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
75	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
76	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
77	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
78	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
79	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
80	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
81	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
82	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
83	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
84	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
85	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
86	0.0000000	0.0000000	0.0005000	0.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.0000000	1.0000000
87	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
88	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
89	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
90	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
91	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	1.0000000
92	0.9950000	1.0000000	0.0005000	0.9990000	0.0010000	0.2000000	0.6000000	1.0000000	0.0000000	1.0000000
93	0.0000000	1.0000000	0.0005000	0.0000000	0.0010000	0.0500000	0.0000000	0.0000000	0.0000000	1.0000000
94	0.9950000	1.0000000	0.0005000	0.9999000	0.0010000	0.0200000	0.0000000	0.0000000	0.0000000	1.0000000
95	0.0000000	1.0000000	0.0005000	0.0000000	0.0010000	0.0010000	0.0000000	0.0000000	0.0000000	1.0000000
96	0.0000000	1.0000000	0.0005000	0.0000000	0.0010000	0.0010000	0.0000000	0.0000000	0.0000000	1.0000000
97	0.0000000	1.0000000	0.0005000	0.0000000	0.0010000	0.0010000	0.0000000	0.0000000	0.0000000	1.0000000
98	0.0000000	1.0000000	0.0005000	0.0000000	0.0010000	0.0010000	0.0000000	0.0000000	0.0000000	1.0000000
99	0.0000000	1.0000000	0.0005000	0.0000000	0.0010000	0.0010000	0.0000000	0.0000000	0.0000000	1.0000000

GROUP FRACTIONAL RECOVERIES

GROUP	SET NUMBER 1	SET NUMBER 2	SET NUMBER 3	SET NUMBER 4	SET NUMBER 5	SET NUMBER 6	SET NUMBER 7	SET NUMBER 8	SET NUMBER 9	SET NUMBER 10
1	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.0000000
2	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.0000000	0.0000000
3	0.0000000	1.0000000	0.0005000	0.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.0000000	0.0000000
4	0.9950000	1.0000000	0.0005000	0.9990000	1.0000000	0.2000000	0.6000000	1.0000000	0.0000000	0.0000000
5	0.0000000	1.0000000	0.0005000	0.0000000	0.0500000	0.0500000	0.0000000	0.0000000	0.0000000	0.0000000
6	0.9950000	1.0000000	0.0005000	0.9999000	1.0000000	0.0200000	0.0000000	0.0000000	0.0000000	0.0000000
7	0.0000000	1.0000000	0.0005000	0.0000000	0.0010000	0.0010000	0.0000000	0.0000000	0.0000000	0.0000000
8	0.0000000	1.0000000	0.0005000	0.0000000	0.0010000	0.0010000	0.0000000	0.0000000	0.0000000	0.0000000
9	0.0000000	1.0000000	0.0005000	0.0000000	0.0010000	0.0010000	0.0000000	0.0000000	0.0000000	0.0000000
10	0.0000000	1.0000000	0.0005000	0.0000000	0.0010000	0.0010000	0.0000000	0.0000000	0.0000000	0.0000000
11	0.0000000	1.0000000	0.0005000	0.0000000	0.0010000	0.0010000	0.0000000	0.0000000	0.0000000	0.0000000
12	0.0000000	0.0010000	0.0005000	0.0000000	1.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.0000000
13	0.0000000	0.0000000	0.0005000	0.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.0000000	0.0000000
14	0.0000000	0.0000000	0.0005000	0.0000000	1.0000000	1.0000000	0.0000000	0.0000000	0.9000000	0.0000000
15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
16	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
17	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
18	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
19	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

OUTPUT UNIT = 6

ELEMENT ASSIGNMENTS TO FRACTIONAL RECOVERY GROUPS

ELEM	GROUP	ELEM	GROUP	ELEM	GROUP	ELEM	GROUP	ELEM	GROUP	ELEM	GROUP	ELEM	GROUP	ELEM	GROUP	ELEM	GROUP
1	14	2	13	3	1	4	1	5	1	6	13	7	13	8	1	9	12
10	13	11	1	12	1	13	1	14	1	15	1	16	1	17	12	18	13
19	1	20	1	21	1	22	1	23	1	24	1	25	1	26	1	27	1
28	1	29	1	30	1	31	1	32	1	33	1	34	1	35	12	36	13
37	1	38	1	39	1	40	1	41	1	42	1	43	1	44	1	45	1
46	1	47	1	48	1	49	1	50	1	51	1	52	1	53	12	54	13
55	1	56	1	57	1	58	1	59	1	60	1	61	1	62	1	63	1
64	1	65	1	66	1	67	1	68	1	69	1	70	1	71	1	72	1
73	1	74	1	75	1	76	1	77	1	78	1	79	1	80	1	81	1
82	1	83	1	84	1	85	1	86	13	87	1	88	1	89	1	90	2
91	3	92	4	93	5	94	6	95	7	96	8	97	9	98	10	99	11

OUTPUT UNIT = 6

CHEMICAL TOXICITIES, GRAMS PER M**3 WATER

NUCLIDE	TOXICITY	NUCLIDE	TOXICITY	NUCLIDE	TOXICITY	NUCLIDE	TOXICITY	NUCLIDE	TOXICITY	NUCLIDE	TOXICITY
1	3.50E+03	2	2.00E-01	3	5.00E+00	4	1.00E+00	5	1.00E+00	6	4.00E+02
7	1.00E-02	8	9.45E+05	9	1.00E+00	10	1.00E+00	11	1.00E+03	12	1.00E+01
13	1.00E-02	14	5.00E+00	15	1.00E-02	16	5.00E+01	17	1.50E-01	18	1.00E+01
19	1.00E+03	20	3.00E+01	21	5.00E-01	22	1.00E-01	23	1.00E-01	24	2.00E-02
25	1.00E-02	26	5.00E-02	27	5.00E-02	28	5.00E-02	29	1.00E-02	30	5.00E-02
31	2.00E-01	32	5.00E-01	33	1.00E-02	34	1.00E-02	35	3.00E+00	36	4.00E+01
37	5.00E+01	38	1.00E+01	39	1.00E-03	40	1.00E+00	41	2.00E-02	42	5.00E-01
43	1.00E+02	44	1.00E+00	45	5.00E-02	46	5.00E-02	47	1.00E-03	48	1.00E-02
49	2.00E-02	50	5.00E-02	51	5.00E-02	52	2.00E-01	53	1.00E+01	54	1.50E+02
55	5.00E+00	56	5.00E-01	57	1.00E+00	58	2.00E+00	59	1.00E+00	60	2.00E-01
61	1.00E+00	62	2.00E-01	63	2.00E-01	64	2.00E-01	65	5.00E-01	66	1.00E+00
67	1.00E+00	68	1.00E-01	69	2.00E-01	70	1.00E-01	71	1.00E-01	72	5.00E-02
73	1.00E+00	74	1.00E+02	75	1.00E+01	76	1.00E+00	77	8.00E-01	78	3.00E-01
79	2.00E-02	80	2.00E-03	81	5.00E-03	82	1.00E-02	83	1.00E-01	84	2.00E-01
85	1.00E+01	86	5.00E+02	87	5.00E+00	88	1.00E-03	89	2.00E-02	90	5.00E-04
91	5.00E-03	92	5.00E-01	93	8.00E-03	94	8.00E-04	95	4.00E-02	96	5.00E-01
97	5.00E-03	98	1.00E-02	99	1.00E-02						

OUTPUT UNIT = 6 PAGE 35

```
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:26
  1    0 TIT  *  TIT     PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240                    *
  2    0 RDA  *  RDA                                                                       *
  3    0 RDA  *  RDA     READ DATA LIBRARIES                                               *
  4    0 RDA  *  RDA                                                                       *
  5    0 LIP  *  LIP     0 0 0                                                             *
  6    0 LIB  *  LIB     0 1 2 3 0 0 0 9 3 0 0 0                                           *
  7    0 PHO  *  PHO     101 102 103 10                                                    *
  8    0 RDA  *  RDA                                                                       *
  9    0 RDA  *  RDA     INPUT PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240              *
 10    0 RDA  *  RDA                                                                       *
 11    0 BAS  *  BAS     PUREX 1WW SIMULANT  FROM 1 MTU FUEL @ 6% PU-240                   *
 12    0 INP  *  INP    -1  1 -1 -1  1  1                                                  *
 13    0 MOV  *  MOV    -1  1  0  1                                                        *
 14    0 RDA  *  RDA                                                                       *
 15    0 RDA  *  RDA     DECAY PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240              *
 16    0 RDA  *  RDA                                                                       *
 17    0 DEC  *  DEC     0.250    1  2  5  2                                               *
 18    0 DEC  *  DEC     0.500    2  3  5  0                                               *
 19    0 PRO  *  PRO              3  3 -1  5                                               *
 20    0 DEC  *  DEC     0.750    3  4  5  0                                               *
 21    0 DEC  *  DEC     1.000    4  5  5  0                                               *
```

```
22    0 DEC  *  DEC     5.000    5  6  5  0                                                  *
23    0 DEC  *  DEC     10.00    6  7  5  0                                                  *
24    0 DEC  *  DEC     20.00    7  8  5  0                                                  *
25    0 DEC  *  DEC     30.00    8  9  5  0                                                  *
26    0 DEC  *  DEC     40.00    9 10  5  0                                                  *
27    0 DEC  *  DEC     51.80   10 11  5  0                                                  *
28    0 RDA  *  RDA                                                                          *
29    0 RDA  *  RDA     GENERATE OUTPUT                                                      *
30    0 RDA  *  RDA                                                                          *
31    0 CUT  *  CUT     5 1.0E-10  7 1.0E-10  9 1.0E-10  23 1.0E-10  27 1.0  -1              *
32    0 OPTL *  OPTL    8 8 8 8 7  8 7 8 7 8  8 8 8 8 8  8 8 8 8 8  8 8 8 8                   *
33    0 OPTA *  OPTA    8 8 8 8 7  8 7 8 7 8  8 8 8 8 8  8 8 8 8 8  8 8 8 8                   *
34    0 OPTF *  OPTF    8 8 8 8 7  8 7 8 7 8  8 8 8 8 8  8 8 8 8 8  8 8 8 8                   *
35    0 HED  *  HED      1  0.00 Y                                                           *
36    0 HED  *  HED      2  0.25 Y                                                           *
37    0 HED  *  HED      3  0.50 Y                                                           *
38    0 HED  *  HED      4  0.75 Y                                                           *
39    0 HED  *  HED      5  1.00 Y                                                           *
40    0 HED  *  HED      6  5.00 Y                                                           *
41    0 HED  *  HED      7  10.0 Y                                                           *
42    0 HED  *  HED      8  20.0 Y                                                           *
43    0 HED  *  HED      9  30.0 Y                                                           *
44    0 HED  *  HED     10  40.0 Y                                                           *
45    0 HED  *  HED     11  51.8 Y                                                           *
46    0 OUT  *  OUT     11  1 -1  0                                                          *
47    0 END  *  END                                                                          *

SUM OF YIELDS FOR EACH FISSILE ISOTOPE:                          0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000

ISOTOPES FOR WHICH YIELDS ARE EXPLICITLY ACCOUNTED FOR:      0      0      0      0      0      0      0      0
                                                                          OUTPUT UNIT =  6                          PAGE   36
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:26

    *  PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240
    POWER= 1.00000E+00 MW,  BURNUP= 1.00000E+00 MWD,  FLUX= 1.00E+00 N/CM**2-SEC

                                          REACTIVITY AND BURNUP DATA
                        BASIS=  PUREX 1WW SIMULANT  FROM 1 MTU FUEL @ 6% PU-240

            0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
TIME, SEC   0.00E+00  7.89E+06  1.58E+07  2.37E+07  3.16E+07  1.58E+08  3.16E+08  6.31E+08  9.47E+08  1.26E+09  1.63E+09
NEUT. FLUX  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00
SP POW,MW   0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00
```

BURNUP,MWD	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
K INFINITY	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
NEUT PRODN	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NEUT DESTN	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOT BURNUP	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
AVG N FLUX	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
AVG SP POW	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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SIZE OF MMAX(I): MMAX= 1  #= 950    MMAX= 2  #= 290    MMAX= 3  #=  47    MMAX= 4  #=   3    MMAX= 5  #=   0    MMAX= 6  #=   0
MMAX= 7  #=   0    MMAX= 8  #=   0    MMAX= 9  #=   0    MMAX=10  #=   0    MMAX=11  #=   0    MMAX=12  #=   0

THE NUMBER OF NON-ZERO TERMS IN A=1656
THE NUMBER OF NON-ZERO FISSION PRODUCT YIELDS=   2
ILITE= 688     IACT= 129     IFP= 879     ITOT=1696
THE NUMBER OF NON-ZERO NATURAL ABUNDANCES= 437
THE NUMBER OF NON-ZERO PHOTON YIELDS= 7903
THE MAXIMUM NUMBER OF TERMS IN AP=  438
                                                                    OUTPUT UNIT =  6                          PAGE   37
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:26

    *  PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240
                                                                                          ACTIVATION PRODUCTS
    POWER= 1.00000E+00 MW,  BURNUP= 1.00000E+00 MWD,  FLUX= 1.00E+00 N/CM**2-SEC

                    5 SUMMARY TABLE:  CONCENTRATIONS, GRAMS
                              PUREX 1WW SIMULANT  FROM 1 MTU FUEL @ 6% PU-240
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	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
H 1	3.836E+00	3.836E+00	3.836E+00	3.836E+00	3.836E+00	3.836E+00	3.836E+00	3.836E+00	3.836E+00	3.836E+00	3.836E+00
H 2	1.560E-03	1.560E-03	1.560E-03	1.560E-03	1.560E-03	1.560E-03	1.560E-03	1.560E-03	1.560E-03	1.560E-03	1.560E-03
H 3	1.546E-05	1.524E-05	1.503E-05	1.482E-05	1.462E-05	1.168E-05	8.819E-06	5.031E-06	2.870E-06	1.637E-06	8.443E-07
HE 3	7.433E-08	2.898E-07	5.022E-07	7.117E-07	9.182E-07	3.858E-06	6.715E-06	1.050E-05	1.266E-05	1.390E-05	1.469E-05
HE 4	1.237E-02	1.237E-02	1.237E-02	1.237E-02	1.237E-02	1.237E-02	1.237E-02	1.237E-02	1.237E-02	1.237E-02	1.237E-02
LI 6	3.608E-04	3.608E-04	3.608E-04	3.608E-04	3.608E-04	3.608E-04	3.608E-04	3.608E-04	3.608E-04	3.608E-04	3.608E-04
LI 7	1.710E-02	1.710E-02	1.710E-02	1.710E-02	1.710E-02	1.710E-02	1.710E-02	1.710E-02	1.710E-02	1.710E-02	1.710E-02
BE 9	9.999E+00	9.999E+00	9.999E+00	9.999E+00	9.999E+00	9.999E+00	9.999E+00	9.999E+00	9.999E+00	9.999E+00	9.999E+00
BE 10	2.099E-05	2.099E-05	2.099E-05	2.099E-05	2.099E-05	2.099E-05	2.099E-05	2.099E-05	2.099E-05	2.099E-05	2.099E-05
B 10	2.865E-02	2.865E-02	2.865E-02	2.865E-02	2.865E-02	2.865E-02	2.865E-02	2.865E-02	2.865E-02	2.865E-02	2.865E-02
B 11	2.362E-01	2.362E-01	2.362E-01	2.362E-01	2.362E-01	2.362E-01	2.362E-01	2.362E-01	2.362E-01	2.362E-01	2.362E-01
C 12	5.633E+02	5.633E+02	5.633E+02	5.633E+02	5.633E+02	5.633E+02	5.633E+02	5.633E+02	5.633E+02	5.633E+02	5.633E+02
C 13	6.850E+00	6.850E+00	6.850E+00	6.850E+00	6.850E+00	6.850E+00	6.850E+00	6.850E+00	6.850E+00	6.850E+00	6.850E+00
C 14	2.739E-02	2.739E-02	2.739E-02	2.739E-02	2.739E-02	2.737E-02	2.736E-02	2.732E-02	2.729E-02	2.726E-02	2.722E-02

N 14	8.052E+01	8.052E+01	8.052E+01	8.052E+01	8.052E+01	8.052E+01	8.052E+01	8.052E+01	8.052E+01	8.052E+01	8.052E+01
N 15	3.180E-01	3.180E-01	3.180E-01	3.180E-01	3.180E-01	3.180E-01	3.180E-01	3.180E-01	3.180E-01	3.180E-01	3.180E-01
NE 21	1.276E-05	1.276E-05	1.276E-05	1.276E-05	1.276E-05	1.276E-05	1.276E-05	1.276E-05	1.276E-05	1.276E-05	1.276E-05
NE 22	1.917E-05	1.917E-05	1.917E-05	1.917E-05	1.917E-05	1.917E-05	1.917E-05	1.917E-05	1.917E-05	1.917E-05	1.917E-05
NA 23	1.468E+00	1.468E+00	1.468E+00	1.468E+00	1.468E+00	1.468E+00	1.468E+00	1.468E+00	1.468E+00	1.468E+00	1.468E+00
MG 24	2.063E+01	2.063E+01	2.063E+01	2.063E+01	2.063E+01	2.063E+01	2.063E+01	2.063E+01	2.063E+01	2.063E+01	2.063E+01
MG 25	2.721E+00	2.721E+00	2.721E+00	2.721E+00	2.721E+00	2.721E+00	2.721E+00	2.721E+00	2.721E+00	2.721E+00	2.721E+00
MG 26	3.115E+00	3.115E+00	3.115E+00	3.115E+00	3.115E+00	3.115E+00	3.115E+00	3.115E+00	3.115E+00	3.115E+00	3.115E+00
AL 27	8.054E+02	8.054E+02	8.054E+02	8.054E+02	8.054E+02	8.054E+02	8.054E+02	8.054E+02	8.054E+02	8.054E+02	8.054E+02
SI 28	1.207E+02	1.207E+02	1.207E+02	1.207E+02	1.207E+02	1.207E+02	1.207E+02	1.207E+02	1.207E+02	1.207E+02	1.207E+02
SI 29	6.331E+00	6.331E+00	6.331E+00	6.331E+00	6.331E+00	6.331E+00	6.331E+00	6.331E+00	6.331E+00	6.331E+00	6.331E+00
SI 30	4.346E+00	4.346E+00	4.346E+00	4.346E+00	4.346E+00	4.346E+00	4.346E+00	4.346E+00	4.346E+00	4.346E+00	4.346E+00
P 31	7.758E-05	7.770E-05	7.770E-05	7.770E-05	7.770E-05	7.770E-05	7.770E-05	7.770E-05	7.770E-05	7.770E-05	7.770E-05
TI 46	2.906E-01	2.906E-01	2.906E-01	2.906E-01	2.906E-01	2.906E-01	2.906E-01	2.906E-01	2.906E-01	2.906E-01	2.906E-01
TI 47	2.682E-01	2.682E-01	2.682E-01	2.682E-01	2.682E-01	2.682E-01	2.682E-01	2.682E-01	2.682E-01	2.682E-01	2.682E-01
TI 48	2.707E+00	2.707E+00	2.707E+00	2.707E+00	2.707E+00	2.707E+00	2.707E+00	2.707E+00	2.707E+00	2.707E+00	2.707E+00
TI 49	2.057E-01	2.057E-01	2.057E-01	2.057E-01	2.057E-01	2.057E-01	2.057E-01	2.057E-01	2.057E-01	2.057E-01	2.057E-01
TI 50	1.992E-01	1.992E-01	1.992E-01	1.992E-01	1.992E-01	1.992E-01	1.992E-01	1.992E-01	1.992E-01	1.992E-01	1.992E-01
V 50	8.964E-03	8.964E-03	8.964E-03	8.964E-03	8.964E-03	8.964E-03	8.964E-03	8.964E-03	8.964E-03	8.964E-03	8.964E-03
V 51	3.668E+00	3.672E+00	3.672E+00	3.672E+00	3.672E+00	3.672E+00	3.672E+00	3.672E+00	3.672E+00	3.672E+00	3.672E+00
CR 50	5.770E+00	5.770E+00	5.770E+00	5.770E+00	5.770E+00	5.770E+00	5.770E+00	5.770E+00	5.770E+00	5.770E+00	5.770E+00
CR 51	4.443E-03	4.525E-04	4.609E-05	4.694E-06	4.781E-07	6.410E-23	9.291E-43	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CR 52	1.158E+02	1.158E+02	1.158E+02	1.158E+02	1.158E+02	1.158E+02	1.158E+02	1.158E+02	1.158E+02	1.158E+02	1.158E+02
CR 53	1.342E+01	1.342E+01	1.342E+01	1.342E+01	1.342E+01	1.342E+01	1.342E+01	1.342E+01	1.342E+01	1.342E+01	1.342E+01
CR 54	3.424E+00	3.424E+00	3.424E+00	3.424E+00	3.424E+00	3.425E+00	3.425E+00	3.425E+00	3.425E+00	3.425E+00	3.425E+00
MN 54	5.662E-04	4.624E-04	3.776E-04	3.084E-04	2.518E-04	9.857E-06	1.716E-07	5.201E-11	1.576E-14	4.778E-18	3.369E-22
MN 55	2.860E+01	2.860E+01	2.860E+01	2.860E+01	2.860E+01	2.861E+01	2.862E+01	2.862E+01	2.862E+01	2.862E+01	2.862E+01
MN 56	1.052E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FE 54	2.518E+01	2.518E+01	2.518E+01	2.518E+01	2.518E+01	2.518E+01	2.518E+01	2.518E+01	2.518E+01	2.518E+01	2.518E+01
FE 55	1.981E-02	1.853E-02	1.734E-02	1.622E-02	1.517E-02	5.224E-03	1.377E-03	9.578E-05	6.660E-06	4.631E-07	1.993E-08
FE 56	4.126E+02	4.126E+02	4.126E+02	4.126E+02	4.126E+02	4.126E+02	4.126E+02	4.126E+02	4.126E+02	4.126E+02	4.126E+02
FE 57	1.001E+01	1.001E+01	1.001E+01	1.001E+01	1.001E+01	1.001E+01	1.001E+01	1.001E+01	1.001E+01	1.001E+01	1.001E+01
FE 58	1.355E+00	1.356E+00	1.356E+00	1.356E+00	1.356E+00	1.356E+00	1.356E+00	1.356E+00	1.356E+00	1.356E+00	1.356E+00
FE 59	1.208E-04	2.960E-05	7.251E-06	1.776E-06	4.352E-07	7.333E-17	4.451E-29	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 58	1.500E-03	6.134E-04	2.508E-04	1.026E-04	4.193E-05	2.561E-11	4.374E-19	1.275E-34	0.000E+00	0.000E+00	0.000E+00
CO 59	7.276E-01	7.277E-01	7.277E-01	7.277E-01	7.277E-01	7.277E-01	7.277E-01	7.277E-01	7.277E-01	7.278E-01	7.278E-01
CO 60	7.043E-03	6.816E-03	6.595E-03	6.382E-03	6.175E-03	3.649E-03	1.890E-03	5.073E-04	1.362E-04	3.654E-05	7.740E-06

OUTPUT UNIT = 6

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

ACTIVATION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PUREX 1MW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
NI 58	9.450E+01	9.450E+01	9.450E+01	9.450E+01	9.450E+01	9.450E+01	9.450E+01	9.450E+01	9.450E+01	9.450E+01	9.450E+01
NI 59	9.690E-02	9.690E-02	9.690E-02	9.690E-02	9.690E-02	9.690E-02	9.689E-02	9.688E-02	9.687E-02	9.687E-02	9.686E-02
NI 60	3.740E+01	3.740E+01	3.740E+01	3.740E+01	3.740E+01	3.740E+01	3.741E+01	3.741E+01	3.741E+01	3.741E+01	3.741E+01
NI 61	1.662E+00	1.662E+00	1.662E+00	1.662E+00	1.662E+00	1.662E+00	1.662E+00	1.662E+00	1.662E+00	1.662E+00	1.662E+00
NI 62	5.304E+00	5.304E+00	5.304E+00	5.304E+00	5.304E+00	5.304E+00	5.304E+00	5.304E+00	5.304E+00	5.304E+00	5.304E+00
NI 63	1.500E-02	1.497E-02	1.494E-02	1.492E-02	1.489E-02	1.445E-02	1.391E-02	1.290E-02	1.197E-02	1.110E-02	1.015E-02
NI 64	1.417E+00	1.417E+00	1.417E+00	1.417E+00	1.417E+00	1.417E+00	1.417E+00	1.417E+00	1.417E+00	1.417E+00	1.417E+00
CU 63	5.387E+01	5.387E+01	5.387E+01	5.387E+01	5.387E+01	5.387E+01	5.387E+01	5.387E+01	5.387E+01	5.387E+01	5.387E+01
CU 64	3.047E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 65	2.475E+01	2.475E+01	2.475E+01	2.475E+01	2.475E+01	2.475E+01	2.475E+01	2.475E+01	2.475E+01	2.475E+01	2.475E+01
ZN 64	1.505E-02	1.516E-02	1.516E-02	1.516E-02	1.516E-02	1.516E-02	1.516E-02	1.516E-02	1.516E-02	1.516E-02	1.516E-02
ZN 66	9.059E-03	9.059E-03	9.059E-03	9.059E-03	9.059E-03	9.059E-03	9.059E-03	9.059E-03	9.059E-03	9.059E-03	9.059E-03
SR 87	6.002E-05	6.002E-05	6.002E-05	6.002E-05	6.002E-05	6.002E-05	6.002E-05	6.002E-05	6.002E-05	6.002E-05	6.002E-05
SR 88	5.500E-03	5.500E-03	5.500E-03	5.500E-03	5.500E-03	5.500E-03	5.500E-03	5.500E-03	5.500E-03	5.500E-03	5.500E-03
SR 89	2.089E-04	5.965E-05	1.703E-05	4.863E-06	1.389E-06	2.711E-15	3.519E-26	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 89	2.093E-04	3.586E-04	4.012E-04	4.133E-04	4.168E-04	4.182E-04	4.182E-04	4.182E-04	4.182E-04	4.182E-04	4.182E-04
Y 90	5.847E-04	5.211E-12	5.152E-12	5.121E-12	5.091E-12	4.629E-12	4.109E-12	3.239E-12	2.553E-12	2.012E-12	1.519E-12
Y 91	5.922E-04	2.008E-04	6.807E-05	2.308E-05	7.822E-06	2.378E-13	9.545E-23	1.543E-41	0.000E+00	0.000E+00	0.000E+00
ZR 90	3.660E+04	3.660E+04	3.660E+04	3.660E+04	3.660E+04	3.660E+04	3.660E+04	3.660E+04	3.660E+04	3.660E+04	3.660E+04
ZR 91	8.046E+03	8.046E+03	8.046E+03	8.046E+03	8.046E+03	8.046E+03	8.046E+03	8.046E+03	8.046E+03	8.046E+03	8.046E+03
ZR 92	1.243E+04	1.243E+04	1.243E+04	1.243E+04	1.243E+04	1.243E+04	1.243E+04	1.243E+04	1.243E+04	1.243E+04	1.243E+04
ZR 93	9.131E-01	9.131E-01	9.131E-01	9.131E-01	9.131E-01	9.131E-01	9.131E-01	9.131E-01	9.131E-01	9.131E-01	9.131E-01
ZR 94	1.292E+04	1.292E+04	1.292E+04	1.292E+04	1.292E+04	1.292E+04	1.292E+04	1.292E+04	1.292E+04	1.292E+04	1.292E+04
ZR 95	1.640E-01	6.098E-02	2.268E-02	8.433E-03	3.136E-03	4.192E-10	1.072E-18	7.001E-36	0.000E+00	0.000E+00	0.000E+00
ZR 96	2.122E+03	2.122E+03	2.122E+03	2.122E+03	2.122E+03	2.122E+03	2.122E+03	2.122E+03	2.122E+03	2.122E+03	2.122E+03
ZR 97	5.795E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 93	4.193E-09	1.148E-08	1.998E-08	2.970E-08	4.062E-08	3.660E-07	1.115E-06	3.444E-06	6.507E-06	1.001E-05	1.447E-05
NB 95	6.009E-02	5.125E-02	2.383E-02	9.651E-03	3.719E-03	5.113E-10	1.307E-18	8.539E-36	0.000E+00	0.000E+00	0.000E+00
NB 95M	6.603E-05	2.552E-05	9.489E-06	3.529E-06	1.312E-06	1.754E-13	4.483E-22	2.929E-39	0.000E+00	0.000E+00	0.000E+00
NB 97	4.120E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 92	5.205E-01	5.205E-01	5.205E-01	5.205E-01	5.205E-01	5.205E-01	5.205E-01	5.205E-01	5.205E-01	5.205E-01	5.205E-01
MO 93	1.372E-05	1.372E-05	1.372E-05	1.372E-05	1.372E-05	1.371E-05	1.369E-05	1.367E-05	1.364E-05	1.361E-05	1.358E-05
MO 94	3.341E-01	3.341E-01	3.341E-01	3.341E-01	3.341E-01	3.341E-01	3.341E-01	3.341E-01	3.341E-01	3.341E-01	3.341E-01
MO 95	6.386E-01	7.505E-01	8.162E-01	8.447E-01	8.559E-01	8.628E-01	8.628E-01	8.628E-01	8.628E-01	8.628E-01	8.628E-01
MO 96	6.163E-01	6.163E-01	6.163E-01	6.163E-01	6.163E-01	6.163E-01	6.163E-01	6.163E-01	6.163E-01	6.163E-01	6.163E-01
MO 97	9.322E-01	9.384E-01	9.384E-01	9.384E-01	9.384E-01	9.384E-01	9.384E-01	9.384E-01	9.384E-01	9.384E-01	9.384E-01
MO 98	9.032E-01	9.032E-01	9.032E-01	9.032E-01	9.032E-01	9.032E-01	9.032E-01	9.032E-01	9.032E-01	9.032E-01	9.032E-01
MO 99	1.291E-05	1.304E-15	1.318E-25	1.331E-35	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO100	3.669E-01	3.669E-01	3.669E-01	3.669E-01	3.669E-01	3.669E-01	3.669E-01	3.669E-01	3.669E-01	3.669E-01	3.669E-01

TC 99	3.950E-05	4.111E-05	4.111E-05	4.111E-05	4.111E-05	4.111E-05	4.111E-05	4.110E-05	4.110E-05	4.110E-05	4.110E-05
RU101	8.424E-05	8.426E-05	8.426E-05	8.426E-05	8.426E-05	8.426E-05	8.426E-05	8.426E-05	8.426E-05	8.426E-05	8.426E-05
CD106	3.511E-03	3.511E-03	3.511E-03	3.511E-03	3.511E-03	3.511E-03	3.511E-03	3.511E-03	3.511E-03	3.511E-03	3.511E-03
CD108	2.448E-03	2.448E-03	2.448E-03	2.448E-03	2.448E-03	2.448E-03	2.448E-03	2.448E-03	2.448E-03	2.448E-03	2.448E-03
CD110	3.492E-02	3.492E-02	3.492E-02	3.492E-02	3.492E-02	3.492E-02	3.492E-02	3.492E-02	3.492E-02	3.492E-02	3.492E-02
CD111	3.613E-02	3.613E-02	3.613E-02	3.613E-02	3.613E-02	3.613E-02	3.613E-02	3.613E-02	3.613E-02	3.613E-02	3.613E-02
CD112	6.892E-02	6.892E-02	6.892E-02	6.892E-02	6.892E-02	6.892E-02	6.892E-02	6.892E-02	6.892E-02	6.892E-02	6.892E-02
CD113	1.301E-05	1.301E-05	1.301E-05	1.301E-05	1.301E-05	1.301E-05	1.301E-05	1.301E-05	1.301E-05	1.301E-05	1.301E-05
CD114	1.187E-01	1.187E-01	1.187E-01	1.187E-01	1.187E-01	1.187E-01	1.187E-01	1.187E-01	1.187E-01	1.187E-01	1.187E-01
CD116	2.217E-02	2.217E-02	2.217E-02	2.217E-02	2.217E-02	2.217E-02	2.217E-02	2.217E-02	2.217E-02	2.217E-02	2.217E-02
IN113	8.764E-03	1.247E-02	1.461E-02	1.584E-02	1.656E-02	1.753E-02	1.753E-02	1.753E-02	1.753E-02	1.753E-02	1.753E-02
IN114M	2.085E-05	5.807E-06	1.617E-06	4.504E-07	1.255E-07	1.645E-16	1.297E-27	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

ACTIVATION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
IN115	5.054E-06	8.590E-06	9.446E-06	9.653E-06	9.703E-06	9.719E-06	9.719E-06	9.719E-06	9.719E-06	9.719E-06	9.719E-06
SN112	1.002E+01	1.002E+01	1.002E+01	1.002E+01	1.002E+01	1.002E+01	1.002E+01	1.002E+01	1.002E+01	1.002E+01	1.002E+01
SN113	8.758E-03	5.054E-03	2.916E-03	1.683E-03	9.709E-04	1.466E-07	2.455E-12	6.883E-22	1.929E-31	5.415E-41	0.000E+00
SN114	6.844E+00	6.844E+00	6.844E+00	6.844E+00	6.844E+00	6.844E+00	6.844E+00	6.844E+00	6.844E+00	6.844E+00	6.844E+00
SN115	3.889E+00	3.889E+00	3.889E+00	3.889E+00	3.889E+00	3.889E+00	3.889E+00	3.889E+00	3.889E+00	3.889E+00	3.889E+00
SN116	1.527E+02	1.527E+02	1.527E+02	1.527E+02	1.527E+02	1.527E+02	1.527E+02	1.527E+02	1.527E+02	1.527E+02	1.527E+02
SN117	8.130E+01	8.131E+01	8.131E+01	8.131E+01	8.131E+01	8.131E+01	8.131E+01	8.131E+01	8.131E+01	8.131E+01	8.131E+01
SN117M	1.204E-02	1.312E-04	1.429E-06	1.557E-08	1.697E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN118	2.569E+02	2.569E+02	2.569E+02	2.569E+02	2.569E+02	2.569E+02	2.569E+02	2.569E+02	2.569E+02	2.569E+02	2.569E+02
SN119	9.172E+01	9.173E+01	9.173E+01	9.174E+01	9.174E+01	9.176E+01	9.176E+01	9.176E+01	9.176E+01	9.176E+01	9.176E+01
SN119M	3.595E-02	2.777E-02	2.145E-02	1.656E-02	1.279E-02	2.051E-04	1.170E-06	3.810E-11	1.240E-15	4.038E-20	2.047E-25
SN120	3.484E+02	3.484E+02	3.484E+02	3.484E+02	3.484E+02	3.484E+02	3.484E+02	3.484E+02	3.484E+02	3.484E+02	3.484E+02
SN121	5.581E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN121M	2.060E-04	2.053E-04	2.046E-04	2.039E-04	2.032E-04	1.922E-04	1.793E-04	1.561E-04	1.359E-04	1.183E-04	1.004E-04
SN122	5.029E+01	5.029E+01	5.029E+01	5.029E+01	5.029E+01	5.029E+01	5.029E+01	5.029E+01	5.029E+01	5.029E+01	5.029E+01
SN123	2.745E-03	1.682E-03	1.030E-03	6.311E-04	3.866E-04	1.522E-07	8.437E-12	2.593E-20	7.971E-29	2.450E-37	0.000E+00
SN124	6.220E+01	6.220E+01	6.220E+01	6.220E+01	6.220E+01	6.220E+01	6.220E+01	6.220E+01	6.220E+01	6.220E+01	6.220E+01
SN125	1.808E-03	2.534E-06	3.565E-09	5.007E-12	7.063E-15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB121	3.466E-02	3.522E-02	3.522E-02	3.522E-02	3.522E-02	3.523E-02	3.524E-02	3.527E-02	3.529E-02	3.531E-02	3.532E-02
SB122	1.127E-05	7.450E-16	4.924E-26	3.255E-36	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB123	9.753E-04	2.039E-03	2.690E-03	3.089E-03	3.334E-03	3.720E-03	3.720E-03	3.720E-03	3.720E-03	3.720E-03	3.720E-03

SB125	2.157E-02	2.197E-02	2.064E-02	1.939E-02	1.822E-02	6.695E-03	1.916E-03	1.569E-04	1.284E-05	1.052E-06	5.489E-08
TE122	1.386E-04	1.496E-04	1.496E-04	1.496E-04	1.496E-04	1.496E-04	1.496E-04	1.496E-04	1.496E-04	1.496E-04	1.496E-04
TE125	7.268E-04	2.018E-03	3.324E-03	4.579E-03	5.766E-03	1.745E-02	2.229E-02	2.408E-02	2.422E-02	2.423E-02	2.423E-02
TE125M	1.290E-04	2.392E-04	2.659E-04	2.636E-04	2.522E-04	9.364E-05	2.680E-05	2.194E-06	1.797E-07	1.471E-08	7.677E-10
TE126	9.296E-06	1.260E-05	1.262E-05	1.262E-05	1.262E-05	1.262E-05	1.262E-05	1.262E-05	1.262E-05	1.262E-05	1.262E-05
LU175	5.984E-04	1.113E-03	1.321E-03	1.405E-03	1.440E-03	1.463E-03	1.463E-03	1.463E-03	1.463E-03	1.463E-03	1.463E-03
HF174	2.143E-02	2.143E-02	2.143E-02	2.143E-02	2.143E-02	2.143E-02	2.143E-02	2.143E-02	2.143E-02	2.143E-02	2.143E-02
HF175	8.644E-04	3.500E-04	1.417E-04	5.737E-05	2.323E-05	1.211E-11	1.696E-19	3.327E-35	0.000E+00	0.000E+00	0.000E+00
HF176	7.295E-01	7.295E-01	7.295E-01	7.295E-01	7.295E-01	7.295E-01	7.295E-01	7.295E-01	7.295E-01	7.295E-01	7.295E-01
HF177	1.986E+00	1.986E+00	1.986E+00	1.986E+00	1.986E+00	1.986E+00	1.986E+00	1.986E+00	1.986E+00	1.986E+00	1.986E+00
HF178	4.361E+00	4.361E+00	4.361E+00	4.361E+00	4.361E+00	4.361E+00	4.361E+00	4.361E+00	4.361E+00	4.361E+00	4.361E+00
HF179	2.317E+00	2.317E+00	2.317E+00	2.317E+00	2.317E+00	2.317E+00	2.317E+00	2.317E+00	2.317E+00	2.317E+00	2.317E+00
HF180	5.255E+00	5.255E+00	5.255E+00	5.255E+00	5.255E+00	5.255E+00	5.255E+00	5.255E+00	5.255E+00	5.255E+00	5.255E+00
HF181	7.537E-03	1.694E-03	3.806E-04	8.553E-05	1.922E-05	8.128E-16	8.765E-29	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF182	2.677E-05	2.677E-05	2.677E-05	2.677E-05	2.677E-05	2.677E-05	2.677E-05	2.677E-05	2.677E-05	2.677E-05	2.677E-05
TA181	9.124E-03	1.498E-02	1.630E-02	1.660E-02	1.667E-02	1.669E-02	1.669E-02	1.669E-02	1.669E-02	1.669E-02	1.669E-02
TA182	7.187E-05	4.145E-05	2.391E-05	1.379E-05	7.952E-06	1.192E-09	9.563E-13	9.365E-13	9.365E-13	9.365E-13	9.365E-13
W180	4.633E-03	4.633E-03	4.633E-03	4.633E-03	4.633E-03	4.633E-03	4.633E-03	4.633E-03	4.633E-03	4.633E-03	4.633E-03
W181	2.716E-05	1.611E-05	9.556E-06	5.668E-06	3.362E-06	7.893E-10	2.294E-14	1.938E-23	1.637E-32	1.370E-41	0.000E+00
W182	9.318E-01	9.318E-01	9.318E-01	9.319E-01	9.319E-01	9.319E-01	9.319E-01	9.319E-01	9.319E-01	9.319E-01	9.319E-01
W183	5.384E-01	5.384E-01	5.384E-01	5.384E-01	5.384E-01	5.384E-01	5.384E-01	5.384E-01	5.384E-01	5.384E-01	5.384E-01
W184	1.133E+00	1.133E+00	1.133E+00	1.133E+00	1.133E+00	1.133E+00	1.133E+00	1.133E+00	1.133E+00	1.133E+00	1.133E+00
W185	5.223E-04	2.249E-04	9.680E-05	4.167E-05	1.794E-05	2.498E-11	1.195E-18	2.733E-33	0.000E+00	0.000E+00	0.000E+00
W186	1.037E+00	1.037E+00	1.037E+00	1.037E+00	1.037E+00	1.037E+00	1.037E+00	1.037E+00	1.037E+00	1.037E+00	1.037E+00
W187	3.458E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W188	2.291E-05	9.203E-06	3.697E-06	1.485E-06	5.966E-07	2.743E-13	3.285E-21	4.709E-37	0.000E+00	0.000E+00	0.000E+00
RE185	3.229E-04	6.203E-04	7.484E-04	8.035E-04	8.273E-04	8.452E-04	8.452E-04	8.452E-04	8.452E-04	8.452E-04	8.452E-04
RE187	2.425E-02	2.460E-02	2.460E-02	2.460E-02	2.460E-02	2.460E-02	2.460E-02	2.460E-02	2.460E-02	2.460E-02	2.460E-02
OS186	8.636E-06	9.924E-06	9.924E-06	9.924E-06	9.924E-06	9.924E-06	9.924E-06	9.924E-06	9.924E-06	9.924E-06	9.924E-06
OS188	2.658E-04	2.848E-04	2.903E-04	2.925E-04	2.934E-04	2.941E-04	2.941E-04	2.941E-04	2.941E-04	2.941E-04	2.941E-04

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

ACTIVATION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
PB204	1.012E-01	1.012E-01	1.012E-01	1.012E-01	1.012E-01	1.012E-01	1.012E-01	1.012E-01	1.012E-01	1.012E-01	1.012E-01
PB205	1.488E-05	1.488E-05	1.488E-05	1.488E-05	1.488E-05	1.488E-05	1.488E-05	1.488E-05	1.488E-05	1.488E-05	1.488E-05
PB206	1.752E+00	1.752E+00	1.752E+00	1.752E+00	1.752E+00	1.752E+00	1.752E+00	1.752E+00	1.752E+00	1.752E+00	1.752E+00

PB207	1.627E+00	1.627E+00	1.627E+00	1.627E+00	1.627E+00	1.627E+00	1.627E+00	1.627E+00	1.627E+00	1.627E+00	1.627E+00
PB208	3.861E+00	3.861E+00	3.861E+00	3.861E+00	3.861E+00	3.861E+00	3.861E+00	3.861E+00	3.861E+00	3.861E+00	3.861E+00
SUMTOT	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04
TOTAL	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04

OUTPUT UNIT = 6

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

ACTIVATION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
H	3.838E+00	3.838E+00	3.838E+00	3.838E+00	3.838E+00	3.838E+00	3.838E+00	3.838E+00	3.838E+00	3.838E+00	3.838E+00
HE	1.237E-02	1.237E-02	1.237E-02	1.237E-02	1.237E-02	1.237E-02	1.238E-02	1.238E-02	1.238E-02	1.238E-02	1.238E-02
LI	1.746E-02	1.746E-02	1.746E-02	1.746E-02	1.746E-02	1.746E-02	1.746E-02	1.746E-02	1.746E-02	1.746E-02	1.746E-02
BE	9.999E+00	9.999E+00	9.999E+00	9.999E+00	9.999E+00	9.999E+00	9.999E+00	9.999E+00	9.999E+00	9.999E+00	9.999E+00
B	2.649E-01	2.649E-01	2.649E-01	2.649E-01	2.649E-01	2.649E-01	2.649E-01	2.649E-01	2.649E-01	2.649E-01	2.649E-01
C	5.702E+02	5.702E+02	5.702E+02	5.702E+02	5.702E+02	5.702E+02	5.702E+02	5.702E+02	5.702E+02	5.702E+02	5.702E+02
N	8.084E+01	8.084E+01	8.084E+01	8.084E+01	8.084E+01	8.084E+01	8.084E+01	8.084E+01	8.084E+01	8.084E+01	8.084E+01
NE	3.193E-05	3.193E-05	3.193E-05	3.193E-05	3.193E-05	3.193E-05	3.193E-05	3.193E-05	3.193E-05	3.193E-05	3.193E-05
NA	1.468E+00	1.468E+00	1.468E+00	1.468E+00	1.468E+00	1.468E+00	1.468E+00	1.468E+00	1.468E+00	1.468E+00	1.468E+00
MG	2.647E+01	2.647E+01	2.647E+01	2.647E+01	2.647E+01	2.647E+01	2.647E+01	2.647E+01	2.647E+01	2.647E+01	2.647E+01
AL	8.054E+02	8.054E+02	8.054E+02	8.054E+02	8.054E+02	8.054E+02	8.054E+02	8.054E+02	8.054E+02	8.054E+02	8.054E+02
SI	1.314E+02	1.314E+02	1.314E+02	1.314E+02	1.314E+02	1.314E+02	1.314E+02	1.314E+02	1.314E+02	1.314E+02	1.314E+02
P	7.758E-05	7.770E-05	7.770E-05	7.770E-05	7.770E-05	7.770E-05	7.770E-05	7.770E-05	7.770E-05	7.770E-05	7.770E-05
TI	3.671E+00	3.671E+00	3.671E+00	3.671E+00	3.671E+00	3.671E+00	3.671E+00	3.671E+00	3.671E+00	3.671E+00	3.671E+00
V	3.677E+00	3.681E+00	3.681E+00	3.681E+00	3.681E+00	3.681E+00	3.681E+00	3.681E+00	3.681E+00	3.681E+00	3.681E+00
CR	1.384E+02	1.384E+02	1.384E+02	1.384E+02	1.384E+02	1.384E+02	1.384E+02	1.384E+02	1.384E+02	1.384E+02	1.384E+02
MN	2.860E+01	2.860E+01	2.860E+01	2.860E+01	2.860E+01	2.861E+01	2.862E+01	2.862E+01	2.862E+01	2.862E+01	2.862E+01
FE	4.492E+02	4.492E+02	4.492E+02	4.492E+02	4.492E+02	4.492E+02	4.491E+02	4.491E+02	4.491E+02	4.491E+02	4.491E+02
CO	7.361E-01	7.351E-01	7.346E-01	7.342E-01	7.339E-01	7.314E-01	7.296E-01	7.282E-01	7.279E-01	7.278E-01	7.278E-01
NI	1.404E+02	1.404E+02	1.404E+02	1.404E+02	1.404E+02	1.404E+02	1.404E+02	1.404E+02	1.404E+02	1.404E+02	1.404E+02
CU	7.862E+01	7.862E+01	7.862E+01	7.862E+01	7.862E+01	7.862E+01	7.862E+01	7.862E+01	7.862E+01	7.862E+01	7.862E+01
ZN	2.411E-02	2.422E-02	2.422E-02	2.422E-02	2.422E-02	2.422E-02	2.422E-02	2.422E-02	2.422E-02	2.422E-02	2.422E-02
SR	5.769E-03	5.620E-03	5.577E-03	5.565E-03	5.561E-03	5.560E-03	5.560E-03	5.560E-03	5.560E-03	5.560E-03	5.560E-03
Y	1.388E-03	5.594E-04	4.692E-04	4.364E-04	4.246E-04	4.182E-04	4.182E-04	4.182E-04	4.182E-04	4.182E-04	4.182E-04
ZR	7.212E+04	7.212E+04	7.212E+04	7.212E+04	7.212E+04	7.212E+04	7.212E+04	7.212E+04	7.212E+04	7.212E+04	7.212E+04
NB	6.057E-02	5.128E-02	2.384E-02	9.655E-03	3.721E-03	2.281E-06	4.362E-06	8.526E-06	1.269E-05	1.685E-05	2.177E-05
MO	4.312E+00	4.430E+00	4.496E+00	4.524E+00	4.535E+00	4.542E+00	4.542E+00	4.542E+00	4.542E+00	4.542E+00	4.542E+00
TC	3.951E-05	4.111E-05	4.111E-05	4.111E-05	4.111E-05	4.111E-05	4.111E-05	4.110E-05	4.110E-05	4.110E-05	4.110E-05

RU	8.424E-05	8.426E-05	8.426E-05	8.426E-05	8.426E-05	8.426E-05	8.427E-05	8.427E-05	8.427E-05	8.427E-05	8.427E-05
CD	2.868E-01	2.868E-01	2.868E-01	2.868E-01	2.868E-01	2.868E-01	2.868E-01	2.868E-01	2.868E-01	2.868E-01	2.868E-01
IN	8.795E-03	1.249E-02	1.462E-02	1.586E-02	1.657E-02	1.754E-02	1.754E-02	1.754E-02	1.754E-02	1.754E-02	1.754E-02
SN	1.064E+03	1.064E+03	1.064E+03	1.064E+03	1.064E+03	1.064E+03	1.064E+03	1.064E+03	1.064E+03	1.064E+03	1.064E+03
SB	5.722E-02	5.923E-02	5.855E-02	5.770E-02	5.677E-02	4.565E-02	4.088E-02	3.915E-02	3.902E-02	3.903E-02	3.904E-02
TE	1.004E-03	2.420E-03	3.754E-03	5.006E-03	6.182E-03	1.770E-02	2.248E-02	2.424E-02	2.439E-02	2.440E-02	2.440E-02
LU	5.985E-04	1.113E-03	1.321E-03	1.405E-03	1.440E-03	1.463E-03	1.463E-03	1.463E-03	1.463E-03	1.463E-03	1.463E-03
HF	1.468E+01	1.467E+01	1.467E+01	1.467E+01	1.467E+01	1.467E+01	1.467E+01	1.467E+01	1.467E+01	1.467E+01	1.467E+01
TA	9.201E-03	1.502E-02	1.632E-02	1.661E-02	1.667E-02	1.669E-02	1.669E-02	1.669E-02	1.669E-02	1.669E-02	1.669E-02
W	3.646E+00	3.645E+00	3.645E+00	3.645E+00	3.645E+00	3.645E+00	3.645E+00	3.645E+00	3.645E+00	3.645E+00	3.645E+00
RE	2.458E-02	2.522E-02	2.534E-02	2.540E-02	2.542E-02	2.544E-02	2.544E-02	2.544E-02	2.544E-02	2.544E-02	2.544E-02
OS	2.744E-04	2.947E-04	3.002E-04	3.025E-04	3.034E-04	3.040E-04	3.040E-04	3.040E-04	3.040E-04	3.040E-04	3.040E-04
PB	7.341E+00	7.341E+00	7.341E+00	7.341E+00	7.341E+00	7.341E+00	7.341E+00	7.341E+00	7.341E+00	7.341E+00	7.341E+00
SUMTOT	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04
TOTAL	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04

CUMULATIVE TABLE TOTALS

AP+FP	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04
ACT+FP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AP+ACT+FP	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04	7.569E+04

OUTPUT UNIT = 6 PAGE 42

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

ACTIVATION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
H 3	1.493E-01	1.472E-01	1.451E-01	1.431E-01	1.411E-01	1.127E-01	8.514E-02	4.857E-02	2.771E-02	1.581E-02	8.150E-03
H 4	5.485E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HE 6	1.204E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LI 8	2.212E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BE 8	2.078E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BE 10	4.692E-07	4.692E-07	4.692E-07	4.692E-07	4.692E-07	4.692E-07	4.692E-07	4.692E-07	4.692E-07	4.692E-07	4.692E-07
B 12	3.282E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
C 14	1.221E-01	1.221E-01	1.221E-01	1.221E-01	1.221E-01	1.221E-01	1.220E-01	1.218E-01	1.217E-01	1.215E-01	1.214E-01
C 15	3.644E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
N 16	1.327E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
F 20	3.116E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

NE 23	3.980E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NA 24	3.425E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NA 24M	6.903E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NA 25	1.887E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MG 27	8.166E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AL 28	1.943E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AL 29	5.129E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AL 30	4.974E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SI 31	4.625E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SI 32	1.473E-10	1.473E-10	1.473E-10	1.472E-10	1.472E-10	1.466E-10	1.458E-10	1.442E-10	1.427E-10	1.412E-10	1.394E-10
P 32	9.204E-05	1.101E-06	1.331E-08	3.047E-10	1.491E-10	1.466E-10	1.458E-10	1.442E-10	1.427E-10	1.412E-10	1.394E-10
CA 45	1.856E-04	1.259E-04	8.536E-05	5.789E-05	3.926E-05	7.828E-08	3.312E-11	5.931E-18	1.062E-24	1.902E-31	2.247E-39
SC 46	3.806E-02	1.788E-02	8.402E-03	3.948E-03	1.855E-03	1.047E-08	2.879E-15	2.177E-28	0.000E+00	0.000E+00	0.000E+00
SC 47	1.092E-01	6.831E-10	4.274E-18	2.674E-26	1.673E-34	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SC 48	1.051E-02	9.157E-18	7.978E-33	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SC 49	8.392E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SC 50	1.731E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TI 51	1.573E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
V 52	9.704E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
V 53	2.182E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
V 54	2.204E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CR 51	4.107E+02	4.183E+01	4.260E+00	4.339E-01	4.420E-02	5.925E-18	8.588E-38	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CR 55	6.577E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MN 54	4.383E+00	3.579E+00	2.923E+00	2.387E+00	1.950E+00	7.630E-02	1.328E-03	4.026E-07	1.220E-10	3.698E-14	2.608E-18
MN 56	2.284E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MN 57	6.131E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MN 58	2.031E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FE 55	4.955E+01	4.635E+01	4.336E+01	4.057E+01	3.795E+01	1.306E+01	3.445E+00	2.395E-01	1.666E-02	1.158E-03	4.984E-05
FE 59	5.944E+00	1.456E+00	3.568E-01	8.740E-02	2.141E-02	3.608E-12	2.190E-24	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 58	4.773E+01	1.952E+01	7.981E+00	3.264E+00	1.334E+00	8.151E-07	1.392E-14	4.059E-30	0.000E+00	0.000E+00	0.000E+00
CO 60	7.967E+00	7.709E+00	7.460E+00	7.219E+00	6.985E+00	4.127E+00	2.138E+00	5.739E-01	1.540E-01	4.134E-02	8.755E-03
CO 60M	1.187E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 61	1.628E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 62	5.710E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 59	7.342E-03	7.342E-03	7.342E-03	7.342E-03	7.342E-03	7.342E-03	7.342E-03	7.341E-03	7.340E-03	7.340E-03	7.339E-03
NI 63	9.256E-01	9.238E-01	9.221E-01	9.204E-01	9.186E-01	8.914E-01	8.584E-01	7.961E-01	7.383E-01	6.848E-01	6.265E-01
NI 65	9.384E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 66	4.793E-05	3.986E-17	3.314E-29	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 64	1.175E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 66	2.533E+02	3.992E-17	3.320E-29	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

ACTIVATION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
CU 67	2.424E-04	5.250E-15	1.137E-25	2.486E-36	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 65	8.513E-03	6.567E-03	5.066E-03	3.908E-03	3.014E-03	4.740E-05	2.638E-07	8.178E-12	2.535E-16	7.858E-21	3.759E-26
SR 89	6.072E+00	1.734E+00	4.950E-01	1.414E-01	4.036E-02	7.881E-11	1.023E-21	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 90	2.837E-06	2.820E-06	2.803E-06	2.787E-06	2.770E-06	2.519E-06	2.236E-06	1.762E-06	1.389E-06	1.095E-06	8.268E-07
SR 91	1.670E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 93	5.769E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 89M	1.530E-04	5.950E-13	2.316E-21	9.012E-30	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 90	3.182E+02	2.837E-06	2.804E-06	2.787E-06	2.771E-06	2.519E-06	2.237E-06	1.763E-06	1.389E-06	1.095E-06	8.270E-07
Y 91	1.453E+01	4.927E+00	1.670E+00	5.662E-01	1.919E-01	5.834E-09	2.342E-18	3.786E-37	0.000E+00	0.000E+00	0.000E+00
Y 92	1.880E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 93	5.768E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 94	1.194E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 96	7.679E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 89	1.531E-04	5.959E-13	2.319E-21	9.025E-30	5.600E-38	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 93	2.295E-03	2.295E-03	2.295E-03	2.295E-03	2.295E-03	2.295E-03	2.295E-03	2.295E-03	2.295E-03	2.295E-03	2.295E-03
ZR 95	3.525E+03	1.311E+03	4.874E+02	1.812E+02	6.739E+01	9.009E-06	2.303E-14	1.505E-31	0.000E+00	0.000E+00	0.000E+00
ZR 97	1.108E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 92	2.975E-02	5.870E-05	1.157E-07	2.276E-10	4.485E-13	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 93M	1.806E-05	4.544E-05	7.247E-05	9.916E-05	1.255E-04	5.045E-04	8.815E-04	1.400E-03	1.712E-03	1.899E-03	2.026E-03
NB 94	2.440E-08	2.440E-08	2.440E-08	2.440E-08	2.440E-08	2.440E-08	2.440E-08	2.439E-08	2.438E-08	2.437E-08	2.436E-08
NB 95	2.351E+03	2.005E+03	9.323E+02	3.776E+02	1.455E+02	2.000E-05	5.113E-14	3.340E-31	0.000E+00	0.000E+00	0.000E+00
NB 95M	2.516E+01	9.723E+00	3.616E+00	1.344E+00	5.000E-01	6.683E-08	1.708E-16	1.116E-33	0.000E+00	0.000E+00	0.000E+00
NB 96	1.543E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 97	1.108E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 97M	1.049E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 98	6.404E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 93M	8.854E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 93	1.508E-05	1.508E-05	1.508E-05	1.508E-05	1.508E-05	1.507E-05	1.505E-05	1.502E-05	1.499E-05	1.497E-05	1.493E-05
MO 99	6.194E+00	6.258E-10	6.322E-20	6.387E-30	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO101	1.543E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC 99	6.699E-07	6.972E-07	6.972E-07	6.972E-07	6.972E-07	6.972E-07	6.972E-07	6.971E-07	6.971E-07	6.971E-07	6.971E-07
TC100	9.043E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC101	1.542E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG108	8.246E-05	3.838E-10	3.832E-10	3.827E-10	3.822E-10	3.739E-10	3.639E-10	3.446E-10	3.263E-10	3.089E-10	2.897E-10
AG108M	4.318E-09	4.312E-09	4.306E-09	4.300E-09	4.294E-09	4.202E-09	4.089E-09	3.871E-09	3.666E-09	3.471E-09	3.255E-09
AG109M	2.273E-03	1.983E-03	1.730E-03	1.510E-03	1.317E-03	1.485E-04	9.705E-06	4.145E-08	1.770E-10	7.553E-13	1.209E-15

AG110	9.143E-05	4.811E-09	3.735E-09	2.899E-09	2.250E-09	3.910E-11	2.467E-13	9.821E-18	3.909E-22	1.556E-26	9.965E-32
AG110M	4.660E-07	3.617E-07	2.808E-07	2.180E-07	1.692E-07	2.940E-09	1.855E-11	7.384E-16	2.939E-20	1.170E-24	7.517E-30
CD107	8.638E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD109	2.273E-03	1.983E-03	1.730E-03	1.510E-03	1.317E-03	1.485E-04	9.705E-06	4.145E-08	1.769E-10	7.551E-13	1.209E-15
CD111M	1.535E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD115	1.905E+00	8.761E-13	4.029E-25	1.643E-37	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD115M	1.188E-01	2.874E-02	6.952E-03	1.682E-03	4.068E-04	5.586E-14	2.626E-26	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD117	6.182E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD117M	2.166E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD119	1.433E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD121	4.360E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN113M	8.800E+01	5.078E+01	2.930E+01	1.691E+01	9.757E+00	1.474E-03	2.467E-08	6.917E-18	1.939E-27	0.000E+00	0.000E+00
IN114	2.028E+00	1.286E-01	3.582E-02	9.977E-03	2.779E-03	3.642E-12	2.873E-23	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN114M	4.825E-01	1.344E-01	3.743E-02	1.042E-02	2.903E-03	3.806E-12	3.002E-23	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN116	7.246E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

ACTIVATION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
IN116M	1.202E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN117	8.737E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN117M	5.847E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN118	1.892E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN119	1.340E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN119M	1.433E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN121	3.575E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN113	8.796E+01	5.075E+01	2.929E+01	1.690E+01	9.751E+00	1.473E-03	2.466E-08	6.913E-18	1.938E-27	5.439E-37	0.000E+00
SN113M	8.740E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN117M	9.599E+02	1.046E+01	1.139E-01	1.242E-03	1.353E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN119M	1.611E+02	1.244E+02	9.608E+01	7.421E+01	5.731E+01	9.190E-01	5.244E-03	1.707E-07	5.558E-12	1.809E-16	9.171E-22
SN121	5.396E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN121M	1.218E-02	1.214E-02	1.210E-02	1.206E-02	1.202E-02	1.137E-02	1.061E-02	9.233E-03	8.037E-03	6.996E-03	5.940E-03
SN123	2.257E+01	1.383E+01	8.471E+00	5.189E+00	3.179E+00	1.251E-03	6.937E-08	2.132E-16	6.554E-25	2.014E-33	0.000E+00
SN123M	2.132E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN125	1.960E+02	2.747E-01	3.865E-04	5.428E-07	7.657E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN125M	1.580E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB122	4.469E+00	2.954E-10	1.953E-20	1.291E-30	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

SB122M	3.888E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB124	2.469E-02	8.629E-03	3.015E-03	1.054E-03	3.682E-04	1.819E-11	1.341E-20	6.082E-39	0.000E+00	0.000E+00	0.000E+00
SB124M	2.140E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB125	2.228E+01	2.270E+01	2.133E+01	2.003E+01	1.882E+01	6.916E+00	1.979E+00	1.620E-01	1.327E-02	1.086E-03	5.670E-05
SB126	2.783E-01	1.686E-03	1.022E-05	6.192E-08	3.752E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB126M	3.471E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE123M	4.806E-04	2.832E-04	1.669E-04	9.835E-05	5.795E-05	1.225E-08	3.122E-13	2.028E-22	1.317E-31	0.000E+00	0.000E+00
TE125M	2.324E+00	4.311E+00	4.791E+00	4.749E+00	4.545E+00	1.687E+00	4.828E-01	3.954E-02	3.237E-03	2.651E-04	1.383E-05
TE127	9.119E-05	8.192E-07	4.584E-07	2.565E-07	1.435E-07	1.325E-11	1.199E-16	9.815E-27	9.397E-37	0.000E+00	0.000E+00
TE127M	1.495E-06	8.363E-07	4.680E-07	2.618E-07	1.465E-07	1.352E-11	1.224E-16	1.002E-26	8.212E-37	0.000E+00	0.000E+00
LU176M	1.620E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LU177	5.967E-03	9.006E-07	2.813E-07	1.870E-07	1.243E-07	1.807E-10	5.118E-14	4.126E-21	3.326E-28	2.682E-35	0.000E+00
LU177M	2.768E-06	1.840E-06	1.223E-06	8.131E-07	5.405E-07	7.840E-10	2.226E-13	1.794E-20	1.446E-27	1.166E-34	0.000E+00
HF175	9.218E+00	3.732E+00	1.511E+00	6.118E-01	2.477E-01	1.291E-07	1.808E-15	3.548E-31	0.000E+00	0.000E+00	0.000E+00
HF178M	1.986E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF179M	2.353E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF180M	5.133E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF181	1.283E+02	2.883E+01	6.479E+00	1.456E+00	3.272E-01	1.384E-11	1.492E-24	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF182	5.845E-09	5.845E-09	5.845E-09	5.845E-09	5.845E-09	5.845E-09	5.845E-09	5.845E-09	5.845E-09	5.845E-09	5.845E-09
TA182	4.486E-01	2.587E-01	1.492E-01	8.605E-02	4.963E-02	7.442E-06	5.968E-09	5.845E-09	5.845E-09	5.845E-09	5.845E-09
TA182M	1.345E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TA183	6.626E-01	2.701E-06	1.101E-11	4.487E-17	1.829E-22	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W181	1.618E-01	9.595E-02	5.691E-02	3.376E-02	2.002E-02	4.701E-06	1.366E-10	1.154E-19	9.747E-29	8.157E-38	0.000E+00
W183M	6.634E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W185	4.911E+00	2.114E+00	9.102E-01	3.918E-01	1.687E-01	2.349E-07	1.123E-14	2.570E-29	0.000E+00	0.000E+00	0.000E+00
W185M	9.413E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W187	2.426E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W188	2.294E-01	9.215E-02	3.702E-02	1.487E-02	5.973E-03	2.747E-09	3.289E-17	4.715E-33	0.000E+00	0.000E+00	0.000E+00
RE186	2.563E-01	1.350E-08	7.113E-16	3.747E-23	1.974E-30	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RE187	9.276E-10	9.408E-10	9.408E-10	9.408E-10	9.408E-10	9.408E-10	9.408E-10	9.408E-10	9.408E-10	9.408E-10	9.408E-10
RE188	5.156E+00	9.310E-02	3.740E-02	1.502E-02	6.035E-03	2.775E-09	3.323E-17	4.764E-33	0.000E+00	0.000E+00	0.000E+00
RE188M	4.820E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RE189	1.463E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 45

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

ACTIVATION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y

PB205	8.653E-10	8.653E-10	8.653E-10	8.653E-10	8.653E-10	8.653E-10	8.653E-10	8.653E-10	8.653E-10	8.653E-10	8.653E-10
PB209	2.357E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SUMTOT	5.091E+04	3.767E+03	1.692E+03	7.566E+02	3.673E+02	2.794E+01	9.138E+00	2.002E+00	1.094E+00	8.845E-01	7.825E-01
TOTAL	5.091E+04	3.767E+03	1.692E+03	7.566E+02	3.673E+02	2.794E+01	9.138E+00	2.002E+00	1.094E+00	8.845E-01	7.825E-01

OUTPUT UNIT = 6

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

ACTIVATION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
H	2.041E-01	1.472E-01	1.451E-01	1.431E-01	1.411E-01	1.127E-01	8.514E-02	4.857E-02	2.771E-02	1.581E-02	8.150E-03
HE	1.204E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LI	2.212E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BE	2.078E+02	4.692E-07	4.692E-07	4.692E-07	4.692E-07	4.692E-07	4.692E-07	4.692E-07	4.692E-07	4.692E-07	4.692E-07
B	3.282E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
C	1.222E-01	1.221E-01	1.221E-01	1.221E-01	1.221E-01	1.221E-01	1.220E-01	1.218E-01	1.217E-01	1.215E-01	1.214E-01
N	1.327E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
F	3.116E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NE	3.980E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NA	4.134E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MG	8.166E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AL	1.943E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SI	4.625E+00	1.473E-10	1.473E-10	1.472E-10	1.472E-10	1.466E-10	1.458E-10	1.442E-10	1.427E-10	1.412E-10	1.394E-10
P	9.204E-05	1.101E-06	1.331E-08	3.047E-10	1.491E-10	1.466E-10	1.458E-10	1.442E-10	1.427E-10	1.412E-10	1.394E-10
CA	1.856E-04	1.259E-04	8.536E-05	5.789E-05	3.926E-05	7.828E-08	3.312E-11	5.931E-18	1.062E-24	1.902E-31	2.247E-39
SC	1.663E-01	1.788E-02	8.402E-03	3.948E-03	1.855E-03	1.047E-08	2.879E-15	2.177E-28	0.000E+00	0.000E+00	0.000E+00
TI	1.573E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
V	9.707E+01	1.603E-15	1.603E-15	1.603E-15	1.603E-15	1.603E-15	1.603E-15	1.603E-15	1.603E-15	1.603E-15	1.603E-15
CR	4.173E+02	4.183E+01	4.260E+00	4.339E-01	4.420E-02	5.925E-18	8.588E-38	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MN	2.288E+03	3.579E+00	2.923E+00	2.387E+00	1.950E+00	7.630E-02	1.328E-03	4.026E-07	1.220E-10	3.698E-14	2.608E-18
FE	5.549E+01	4.781E+01	4.372E+01	4.065E+01	3.797E+01	1.306E+01	3.445E+00	2.395E-01	1.666E-02	1.158E-03	4.984E-05
CO	1.746E+02	2.723E+01	1.544E+01	1.048E+01	8.320E+00	4.127E+00	2.138E+00	5.739E-01	1.540E-01	4.134E-02	8.755E-03
NI	1.032E+01	9.312E-01	9.295E-01	9.277E-01	9.260E-01	8.987E-01	8.658E-01	8.035E-01	7.457E-01	6.921E-01	6.338E-01
CU	1.429E+03	5.290E-15	1.137E-25	2.486E-36	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN	8.513E-03	6.567E-03	5.066E-03	3.908E-03	3.014E-03	4.740E-05	2.638E-07	8.178E-12	2.535E-16	7.858E-21	3.759E-26
SR	7.748E+00	1.734E+00	4.951E-01	1.414E-01	4.036E-02	2.519E-06	2.236E-06	1.762E-06	1.389E-06	1.095E-06	8.268E-07
Y	3.528E+02	4.927E+00	1.670E+00	5.662E-01	1.919E-01	2.525E-06	2.237E-06	1.763E-06	1.389E-06	1.095E-06	8.270E-07
ZR	1.461E+04	1.311E+03	4.874E+02	1.812E+02	6.740E+01	2.304E-03	2.295E-03	2.295E-03	2.295E-03	2.295E-03	2.295E-03

NB	2.395E+04	2.015E+03	9.360E+02	3.789E+02	1.460E+02	5.246E-04	8.815E-04	1.400E-03	1.712E-03	1.899E-03	2.026E-03
MO	7.746E+00	1.508E-05	1.508E-05	1.508E-05	1.508E-05	1.507E-05	1.505E-05	1.502E-05	1.499E-05	1.497E-05	1.493E-05
TC	1.551E+00	6.972E-07	6.972E-07	6.972E-07	6.972E-07	6.972E-07	6.972E-07	6.971E-07	6.971E-07	6.971E-07	6.971E-07
AG	2.448E-03	1.984E-03	1.731E-03	1.510E-03	1.317E-03	1.485E-04	9.710E-06	4.566E-08	4.169E-09	3.781E-09	3.544E-09
CD	2.115E+00	3.073E-02	8.683E-03	3.191E-03	1.724E-03	1.485E-04	9.705E-06	4.145E-08	1.769E-10	7.551E-13	1.209E-15
IN	9.077E+01	5.105E+01	2.938E+01	1.693E+01	9.763E+00	1.474E-03	2.467E-08	6.740E-17	6.048E-17	6.048E-17	6.048E-17
SN	2.213E+03	1.997E+02	1.340E+02	9.631E+01	7.026E+01	9.331E-01	1.585E-02	9.233E-03	8.037E-03	6.996E-03	5.940E-03
SB	2.713E+01	2.271E+01	2.133E+01	2.003E+01	1.882E+01	6.916E+00	1.979E+00	1.620E-01	1.327E-02	1.086E-03	5.670E-05
TE	2.325E+00	4.311E+00	4.791E+00	4.749E+00	4.545E+00	1.687E+00	4.828E-01	3.954E-02	3.237E-03	2.651E-04	1.383E-05
LU	1.679E-01	2.740E-06	1.504E-06	1.000E-06	6.648E-07	9.647E-10	2.738E-13	2.207E-20	1.779E-27	1.434E-34	0.000E+00
HF	2.515E+03	3.256E+01	7.990E+00	2.068E+00	5.749E-01	1.350E-07	5.845E-09	5.845E-09	5.845E-09	5.845E-09	5.845E-09
TA	1.113E+00	2.587E-01	1.492E-01	8.605E-02	4.963E-02	7.442E-06	5.968E-09	5.845E-09	5.845E-09	5.845E-09	5.845E-09
W	2.485E+02	2.302E+00	1.004E+00	4.405E-01	1.947E-01	4.939E-06	1.366E-10	1.154E-19	9.747E-29	8.157E-38	0.000E+00
RE	1.023E+01	9.310E-02	3.740E-02	1.502E-02	6.035E-03	3.716E-09	9.408E-10	9.408E-10	9.408E-10	9.408E-10	9.408E-10
PB	2.357E-03	8.653E-10	8.653E-10	8.653E-10	8.653E-10	8.653E-10	8.653E-10	8.653E-10	8.653E-10	8.653E-10	8.653E-10
SUMTOT	5.091E+04	3.767E+03	1.692E+03	7.566E+02	3.673E+02	2.794E+01	9.138E+00	2.002E+00	1.094E+00	8.845E-01	7.825E-01
TOTAL	5.091E+04	3.767E+03	1.692E+03	7.566E+02	3.673E+02	2.794E+01	9.138E+00	2.002E+00	1.094E+00	8.845E-01	7.825E-01

CUMULATIVE TABLE TOTALS

AP+FP	5.091E+04	3.767E+03	1.692E+03	7.566E+02	3.673E+02	2.794E+01	9.138E+00	2.002E+00	1.094E+00	8.845E-01	7.825E-01
ACT+FP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AP+ACT+FP	5.091E+04	3.767E+03	1.692E+03	7.566E+02	3.673E+02	2.794E+01	9.138E+00	2.002E+00	1.094E+00	8.845E-01	7.825E-01

OUTPUT UNIT = 6 PAGE 47

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1NW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

ACTIVATION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS

PUREX 1NW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
H 3	5.025E-06	4.955E-06	4.886E-06	4.818E-06	4.751E-06	3.795E-06	2.867E-06	1.635E-06	9.329E-07	5.322E-07	2.744E-07
HE 6	1.119E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LI 8	8.246E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BE 8	1.170E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BE 10	5.632E-10	5.632E-10	5.632E-10	5.632E-10	5.632E-10	5.632E-10	5.632E-10	5.632E-10	5.632E-10	5.632E-10	5.632E-10
B 12	2.601E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
C 14	3.581E-05	3.581E-05	3.581E-05	3.581E-05	3.581E-05	3.579E-05	3.577E-05	3.573E-05	3.568E-05	3.564E-05	3.559E-05
C 15	6.201E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
N 16	5.749E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

F 20	1.299E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NE 23	4.878E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NA 24	9.492E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NA 24M	1.931E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NA 25	2.165E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MG 27	7.711E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AL 28	3.484E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AL 29	7.147E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AL 30	1.687E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SI 31	1.635E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SI 32	1.834E-13	1.834E-13	1.833E-13	1.833E-13	1.832E-13	1.824E-13	1.815E-13	1.795E-13	1.776E-13	1.758E-13	1.736E-13
P 32	9.329E-07	1.116E-08	1.350E-10	3.089E-12	1.511E-12	1.486E-12	1.478E-12	1.462E-12	1.447E-12	1.431E-12	1.413E-12
CA 45	8.494E-08	5.760E-08	3.906E-08	2.649E-08	1.796E-08	3.582E-11	1.516E-14	2.714E-21	4.860E-28	8.702E-35	1.029E-42
SC 46	4.787E-04	2.249E-04	1.057E-04	4.966E-05	2.333E-05	1.317E-10	3.621E-17	2.739E-30	0.000E+00	0.000E+00	0.000E+00
SC 47	1.752E-04	1.096E-12	6.861E-21	4.293E-29	2.686E-37	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SC 48	2.223E-04	1.937E-19	1.687E-34	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SC 49	9.989E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SC 50	4.953E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TI 51	1.151E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
V 52	1.446E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
V 53	2.635E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
V 54	9.539E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CR 51	8.813E-02	8.976E-03	9.142E-04	9.311E-05	9.484E-06	1.271E-21	1.843E-41	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CR 55	4.293E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MN 54	2.182E-02	1.782E-02	1.455E-02	1.188E-02	9.705E-03	3.798E-04	6.613E-06	2.004E-09	6.075E-13	1.841E-16	1.298E-20
MN 56	3.413E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MN 57	4.256E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MN 58	4.811E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
FE 55	1.674E-03	1.566E-03	1.465E-03	1.371E-03	1.282E-03	4.414E-04	1.164E-04	8.094E-06	5.628E-07	3.913E-08	1.684E-09
FE 59	4.601E-02	1.127E-02	2.762E-03	6.766E-04	1.658E-04	2.793E-14	1.695E-26	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 58	2.855E-01	1.167E-01	4.774E-02	1.952E-02	7.981E-03	4.875E-09	8.325E-17	2.428E-32	0.000E+00	0.000E+00	0.000E+00
CO 60	1.228E-01	1.189E-01	1.150E-01	1.113E-01	1.077E-01	6.364E-02	3.297E-02	8.848E-03	2.375E-03	6.373E-04	1.350E-04
CO 60M	4.436E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 61	5.271E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 62	1.083E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 59	2.916E-07	2.916E-07	2.916E-07	2.916E-07	2.916E-07	2.916E-07	2.916E-07	2.916E-07	2.915E-07	2.915E-07	2.915E-07
NI 63	9.327E-05	9.310E-05	9.292E-05	9.275E-05	9.257E-05	8.982E-05	8.650E-05	8.022E-05	7.440E-05	6.900E-05	6.313E-05
NI 65	6.570E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 64	2.181E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 66	1.734E+00	2.733E-19	2.273E-31	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 67	3.892E-07	8.430E-18	1.826E-28	3.991E-39	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 65	2.979E-05	2.298E-05	1.773E-05	1.368E-05	1.055E-05	1.659E-07	9.234E-10	2.862E-14	8.872E-19	2.750E-23	1.316E-28

OUTPUT UNIT = 6

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

ACTIVATION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
SR 89	2.099E-02	5.994E-03	1.711E-03	4.887E-04	1.395E-04	2.724E-13	3.536E-24	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 90	3.293E-09	3.273E-09	3.254E-09	3.234E-09	3.215E-09	2.923E-09	2.595E-09	2.046E-09	1.612E-09	1.271E-09	9.596E-10
SR 91	1.338E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 93	8.740E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 89M	8.312E-07	3.234E-15	1.258E-23	4.897E-32	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 90	1.764E+00	1.572E-08	1.554E-08	1.545E-08	1.536E-08	1.396E-08	1.240E-08	9.771E-09	7.701E-09	6.070E-09	4.584E-09
Y 91	5.219E-02	1.770E-02	5.999E-03	2.033E-03	6.893E-04	2.095E-11	8.411E-21	1.360E-39	0.000E+00	0.000E+00	0.000E+00
Y 92	1.892E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 93	4.315E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 94	1.990E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 96	1.761E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 89	1.146E-06	4.458E-15	1.735E-23	6.752E-32	4.190E-40	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 93	2.667E-07	2.667E-07	2.667E-07	2.667E-07	2.667E-07	2.667E-07	2.667E-07	2.667E-07	2.667E-07	2.667E-07	2.667E-07
ZR 95	1.785E+01	6.639E+00	2.469E+00	9.180E-01	3.414E-01	4.563E-08	1.166E-16	7.621E-34	0.000E+00	0.000E+00	0.000E+00
ZR 97	5.775E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 92	2.663E-04	5.254E-07	1.035E-09	2.037E-12	4.014E-15	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 93M	3.200E-09	8.051E-09	1.284E-08	1.757E-08	2.224E-08	8.938E-08	1.562E-07	2.481E-07	3.033E-07	3.364E-07	3.590E-07
NB 94	2.487E-10	2.487E-10	2.487E-10	2.487E-10	2.487E-10	2.486E-10	2.486E-10	2.485E-10	2.484E-10	2.483E-10	2.482E-10
NB 95	1.128E+01	9.617E+00	4.472E+00	1.811E+00	6.979E-01	9.594E-08	2.452E-16	1.602E-33	0.000E+00	0.000E+00	0.000E+00
NB 95M	3.496E-02	1.351E-02	5.024E-03	1.868E-03	6.947E-04	9.286E-11	2.374E-19	1.551E-36	0.000E+00	0.000E+00	0.000E+00
NB 96	2.565E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 97	7.377E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 97M	4.619E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 98	7.904E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 93M	1.239E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 93	1.413E-09	1.413E-09	1.413E-09	1.413E-09	1.412E-09	1.411E-09	1.410E-09	1.407E-09	1.404E-09	1.402E-09	1.398E-09
MO 99	1.989E-02	2.010E-12	2.030E-22	2.051E-32	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO101	1.762E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC 99	3.360E-10	3.496E-10	3.496E-10	3.496E-10	3.496E-10	3.496E-10	3.496E-10	3.496E-10	3.496E-10	3.496E-10	3.496E-10
TC100	7.961E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC101	7.403E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG108	3.070E-07	1.429E-12	1.427E-12	1.425E-12	1.423E-12	1.392E-12	1.355E-12	1.283E-12	1.215E-12	1.150E-12	1.078E-12
AG108M	4.182E-11	4.176E-11	4.171E-11	4.165E-11	4.159E-11	4.070E-11	3.960E-11	3.750E-11	3.551E-11	3.362E-11	3.152E-11
AG109M	1.172E-06	1.022E-06	8.920E-07	7.782E-07	6.790E-07	7.656E-08	5.003E-09	2.136E-11	9.122E-14	3.893E-16	6.232E-19

AG110	6.568E-07	3.457E-11	2.683E-11	2.083E-11	1.617E-11	2.809E-13	1.773E-15	7.055E-20	2.808E-24	1.118E-28	7.159E-34
AG110M	7.782E-09	6.041E-09	4.689E-09	3.640E-09	2.825E-09	4.909E-11	3.098E-13	1.233E-17	4.908E-22	1.953E-26	1.255E-31
CD107	6.180E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD109	2.641E-07	2.304E-07	2.010E-07	1.754E-07	1.530E-07	1.726E-08	1.128E-09	4.815E-12	2.055E-14	8.773E-17	1.405E-19
CD111M	3.602E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD115	6.048E-03	2.781E-15	1.279E-27	5.216E-40	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD115M	4.432E-04	1.072E-04	2.593E-05	6.272E-06	1.517E-06	2.084E-16	9.796E-29	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD117	4.452E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD117M	1.760E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD119	1.571E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD121	7.224E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN113M	2.050E-01	1.183E-01	6.827E-02	3.939E-02	2.273E-02	3.433E-06	5.748E-11	1.611E-20	4.517E-30	0.000E+00	0.000E+00
IN114	9.660E-03	6.126E-04	1.706E-04	4.752E-05	1.323E-05	1.735E-14	1.368E-25	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN114M	6.847E-04	1.907E-04	5.312E-05	1.479E-05	4.120E-06	5.401E-15	4.260E-26	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN116	5.936E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN116M	1.978E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN117	3.936E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 49

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

ACTIVATION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
IN117M	2.208E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN118	2.284E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN119	1.072E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN119M	1.211E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN121	4.305E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN113	1.465E-02	8.454E-03	4.878E-03	2.815E-03	1.624E-03	2.453E-07	4.107E-12	1.151E-21	3.228E-31	9.059E-41	0.000E+00
SN113M	4.108E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN117M	1.780E+00	1.940E-02	2.113E-04	2.303E-06	2.509E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN119M	8.325E-02	6.430E-02	4.966E-02	3.836E-02	2.962E-02	4.750E-04	2.710E-06	8.824E-11	2.873E-15	9.352E-20	4.740E-25
SN121	6.525E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN121M	2.441E-05	2.433E-05	2.424E-05	2.416E-05	2.408E-05	2.278E-05	2.125E-05	1.850E-05	1.610E-05	1.402E-05	1.190E-05
SN123	7.049E-02	4.319E-02	2.646E-02	1.621E-02	9.929E-03	3.908E-06	2.167E-10	6.660E-19	2.047E-27	6.291E-36	0.000E+00
SN123M	7.768E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN125	1.299E+00	1.821E-03	2.561E-06	3.597E-09	5.074E-12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN125M	1.063E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB122	2.665E-02	1.762E-12	1.164E-22	7.697E-33	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

SB122M	3.733E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB124	3.279E-04	1.146E-04	4.004E-05	1.399E-05	4.889E-06	2.416E-13	1.780E-22	8.075E-41	0.000E+00	0.000E+00	0.000E+00
SB124M	5.503E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB125	6.966E-02	7.096E-02	6.667E-02	6.263E-02	5.883E-02	2.162E-02	6.187E-03	5.066E-04	4.148E-05	3.396E-06	1.773E-07
SB126	5.141E-03	3.116E-05	1.888E-07	1.144E-09	6.933E-12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB126M	4.420E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE123M	7.000E-07	4.125E-07	2.431E-07	1.432E-07	8.440E-08	1.784E-11	4.547E-16	2.953E-25	1.918E-34	0.000E+00	0.000E+00
TE125M	1.954E-03	3.623E-03	4.027E-03	3.992E-03	3.820E-03	1.418E-03	4.058E-04	3.323E-05	2.721E-06	2.228E-07	1.163E-08
TE127	1.231E-07	1.106E-09	6.189E-10	3.463E-10	1.938E-10	1.789E-14	1.619E-19	1.325E-29	1.269E-39	0.000E+00	0.000E+00
LU176M	1.258E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LU177	6.438E-06	9.715E-10	3.035E-10	2.017E-10	1.341E-10	1.950E-13	5.522E-17	4.451E-24	3.588E-31	2.893E-38	0.000E+00
LU177M	2.228E-08	1.481E-08	9.846E-09	6.545E-09	4.351E-09	6.311E-12	1.792E-15	1.444E-22	1.164E-29	9.384E-37	0.000E+00
HF175	2.267E-02	9.178E-03	3.716E-03	1.505E-03	6.091E-04	3.175E-10	4.448E-18	8.726E-34	0.000E+00	0.000E+00	0.000E+00
HF178M	1.350E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF179M	5.271E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF180M	3.475E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF181	5.735E-01	1.289E-01	2.896E-02	6.508E-03	1.462E-03	6.184E-14	6.669E-27	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HF182	1.732E-11	1.732E-11	1.732E-11	1.732E-11	1.732E-11	1.732E-11	1.732E-11	1.732E-11	1.732E-11	1.732E-11	1.732E-11
TA182	3.994E-03	2.303E-03	1.328E-03	7.661E-04	4.419E-04	6.626E-08	5.314E-11	5.204E-11	5.204E-11	5.204E-11	5.204E-11
TA182M	4.010E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TA183	4.203E-03	1.713E-08	6.982E-14	2.846E-19	1.160E-24	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W181	4.631E-05	2.747E-05	1.629E-05	9.665E-06	5.733E-06	1.346E-09	3.912E-14	3.304E-23	2.790E-32	2.335E-41	0.000E+00
W183M	1.022E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W185	3.697E-03	1.592E-03	6.852E-04	2.950E-04	1.270E-04	1.768E-10	8.457E-18	1.934E-32	0.000E+00	0.000E+00	0.000E+00
W185M	1.099E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W187	1.100E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W188	1.372E-04	5.511E-05	2.214E-05	8.894E-06	3.573E-06	1.643E-12	1.967E-20	2.820E-36	0.000E+00	0.000E+00	0.000E+00
RE186	5.479E-04	2.887E-11	1.521E-18	8.012E-26	4.221E-33	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RE187	1.424E-11	1.444E-11	1.444E-11	1.444E-11	1.444E-11	1.444E-11	1.444E-11	1.444E-11	1.444E-11	1.444E-11	1.444E-11
RE188	2.558E-02	4.619E-04	1.856E-04	7.454E-05	2.994E-05	1.377E-11	1.649E-19	2.364E-35	0.000E+00	0.000E+00	0.000E+00
RE188M	4.914E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RE189	8.758E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PB205	2.513E-14	2.513E-14	2.513E-14	2.513E-14	2.513E-14	2.513E-14	2.513E-14	2.513E-14	2.513E-14	2.513E-14	2.513E-14
PB209	2.710E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SUMTOT	2.996E+02	1.704E+01	7.392E+00	3.051E+00	1.297E+00	8.813E-02	3.983E-02	9.533E-03	2.547E-03	7.611E-04	2.470E-04
TOTAL	2.996E+02	1.704E+01	7.392E+00	3.051E+00	1.297E+00	8.813E-02	3.983E-02	9.533E-03	2.547E-03	7.611E-04	2.470E-04

OUTPUT UNIT = 6

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

ACTIVATION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
H	5.025E-06	4.955E-06	4.886E-06	4.818E-06	4.751E-06	3.795E-06	2.867E-06	1.635E-06	9.329E-07	5.322E-07	2.744E-07
HE	1.119E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LI	8.246E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BE	1.170E-01	5.632E-10	5.632E-10	5.632E-10	5.632E-10	5.632E-10	5.632E-10	5.632E-10	5.632E-10	5.632E-10	5.632E-10
B	2.601E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
C	3.643E-05	3.581E-05	3.581E-05	3.581E-05	3.581E-05	3.579E-05	3.577E-05	3.573E-05	3.568E-05	3.564E-05	3.559E-05
N	5.749E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
F	1.299E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NE	4.878E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NA	9.706E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MG	7.711E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AL	3.485E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SI	1.635E-02	1.834E-13	1.833E-13	1.833E-13	1.832E-13	1.824E-13	1.815E-13	1.795E-13	1.776E-13	1.758E-13	1.736E-13
P	9.329E-07	1.116E-08	1.350E-10	3.089E-12	1.511E-12	1.486E-12	1.478E-12	1.462E-12	1.447E-12	1.431E-12	1.413E-12
CA	8.494E-08	5.760E-08	3.906E-08	2.649E-08	1.796E-08	3.582E-11	1.516E-14	2.714E-21	4.860E-28	8.702E-35	1.029E-42
SC	9.811E-04	2.249E-04	1.057E-04	4.966E-05	2.333E-05	1.317E-10	3.621E-17	2.739E-30	0.000E+00	0.000E+00	0.000E+00
TI	1.151E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
V	1.446E+00	1.767E-17	1.767E-17	1.767E-17	1.767E-17	1.767E-17	1.767E-17	1.767E-17	1.767E-17	1.767E-17	1.767E-17
CR	1.311E-01	8.976E-03	9.142E-04	9.311E-05	9.484E-06	1.271E-21	1.843E-41	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MN	3.415E+01	1.782E-02	1.455E-02	1.188E-02	9.705E-03	3.798E-04	6.613E-06	2.004E-09	6.075E-13	1.841E-16	1.298E-20
FE	4.769E-02	1.284E-02	4.227E-03	2.047E-03	1.448E-03	4.414E-04	1.164E-04	8.094E-06	5.628E-07	3.913E-08	1.684E-09
CO	4.543E-01	2.356E-01	1.628E-01	1.308E-01	1.157E-01	6.364E-02	3.297E-02	8.848E-03	2.375E-03	6.373E-04	1.350E-04
NI	6.579E-02	9.339E-05	9.321E-05	9.304E-05	9.286E-05	9.012E-05	8.679E-05	8.052E-05	7.469E-05	6.929E-05	6.342E-05
CU	3.915E+00	8.703E-18	1.828E-28	3.991E-39	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN	2.979E-05	2.298E-05	1.773E-05	1.368E-05	1.055E-05	1.659E-07	9.234E-10	2.862E-14	8.872E-19	2.750E-23	1.316E-28
SR	3.446E-02	5.994E-03	1.711E-03	4.887E-04	1.395E-04	2.924E-09	2.595E-09	2.046E-09	1.612E-09	1.271E-09	9.596E-10
Y	2.025E+00	1.770E-02	5.999E-03	2.033E-03	6.893E-04	1.398E-08	1.240E-08	9.771E-09	7.701E-09	6.070E-09	4.584E-09
ZR	7.561E+01	6.639E+00	2.469E+00	9.180E-01	3.414E-01	3.123E-07	2.667E-07	2.667E-07	2.667E-07	2.667E-07	2.667E-07
NB	1.313E+02	9.630E+00	4.477E+00	1.813E+00	6.986E-01	1.857E-07	1.564E-07	2.483E-07	3.035E-07	3.367E-07	3.592E-07
MO	3.764E-02	1.415E-09	1.413E-09	1.413E-09	1.412E-09	1.411E-09	1.410E-09	1.407E-09	1.404E-09	1.402E-09	1.398E-09
TC	7.483E-03	3.496E-10	3.496E-10	3.496E-10	3.496E-10	3.496E-10	3.496E-10	3.496E-10	3.496E-10	3.496E-10	3.496E-10
AG	2.143E-06	1.028E-06	8.967E-07	7.819E-07	6.819E-07	7.666E-08	5.044E-09	6.014E-11	3.681E-11	3.477E-11	3.260E-11
CD	6.999E-03	1.074E-04	2.613E-05	6.448E-06	1.670E-06	1.726E-08	1.128E-09	4.815E-12	2.055E-14	8.773E-17	1.405E-19
IN	2.171E-01	1.191E-01	6.849E-02	3.945E-02	2.275E-02	3.433E-06	5.748E-11	1.029E-19	8.676E-20	8.676E-20	8.676E-20
SN	5.005E+00	1.372E-01	8.123E-02	5.741E-02	4.120E-02	5.019E-04	2.396E-05	1.850E-05	1.610E-05	1.402E-05	1.190E-05
SB	1.023E-01	7.111E-02	6.671E-02	6.264E-02	5.883E-02	2.162E-02	6.187E-03	5.066E-04	4.148E-05	3.396E-06	1.773E-07
TE	1.955E-03	3.624E-03	4.027E-03	3.992E-03	3.820E-03	1.418E-03	4.058E-04	3.323E-05	2.721E-06	2.228E-07	1.163E-08
LU	1.264E-03	1.578E-08	1.015E-08	6.747E-09	4.485E-09	6.506E-12	1.847E-15	1.489E-22	1.200E-29	9.674E-37	0.000E+00
HF	6.037E+00	1.380E-01	3.267E-02	8.012E-03	2.072E-03	3.349E-10	1.732E-11	1.732E-11	1.732E-11	1.732E-11	1.732E-11

TA	8.200E-03	2.303E-03	1.328E-03	7.661E-04	4.419E-04	6.626E-08	5.314E-11	5.204E-11	5.204E-11	5.204E-11	5.204E-11
W	1.105E+00	1.674E-03	7.236E-04	3.135E-04	1.363E-04	1.524E-09	3.912E-14	3.304E-23	2.790E-32	2.335E-41	0.000E+00
RE	3.105E-02	4.619E-04	1.856E-04	7.454E-05	2.994E-05	2.821E-11	1.444E-11	1.444E-11	1.444E-11	1.444E-11	1.444E-11
PB	2.710E-06	2.515E-14	2.515E-14	2.515E-14	2.515E-14	2.515E-14	2.515E-14	2.515E-14	2.515E-14	2.515E-14	2.515E-14
SUMTOT	2.996E+02	1.704E+01	7.392E+00	3.051E+00	1.297E+00	8.813E-02	3.983E-02	9.533E-03	2.547E-03	7.611E-04	2.470E-04
TOTAL	2.996E+02	1.704E+01	7.392E+00	3.051E+00	1.297E+00	8.813E-02	3.983E-02	9.533E-03	2.547E-03	7.611E-04	2.470E-04

CUMULATIVE TABLE TOTALS

AP+FP	2.996E+02	1.704E+01	7.392E+00	3.051E+00	1.297E+00	8.813E-02	3.983E-02	9.533E-03	2.547E-03	7.611E-04	2.470E-04
ACT+FP	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AP+ACT+FP	2.996E+02	1.704E+01	7.392E+00	3.051E+00	1.297E+00	8.813E-02	3.983E-02	9.533E-03	2.547E-03	7.611E-04	2.470E-04

OUTPUT UNIT = 6

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

ACTINIDES+DAUGHTERS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS

PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
HE 4	1.004E-04	2.676E-04	4.332E-04	4.334E-04	4.335E-04	4.362E-04	4.397E-04	4.472E-04	4.550E-04	4.629E-04	4.725E-04
TH230	6.214E-05	1.104E-04	1.586E-04	1.587E-04	1.587E-04	1.595E-04	1.604E-04	1.624E-04	1.643E-04	1.662E-04	1.685E-04
TH232	5.613E-06	1.063E-05	1.564E-05	1.564E-05	1.565E-05	1.573E-05	1.583E-05	1.603E-05	1.623E-05	1.643E-05	1.667E-05
TH234	1.387E-05	1.431E-05	1.435E-05	1.051E-06	8.932E-08	1.435E-08	1.435E-08	1.435E-08	1.435E-08	1.435E-08	1.435E-08
PA231	3.828E-06	6.009E-06	8.157E-06	8.194E-06	8.196E-06	8.230E-06	8.271E-06	8.354E-06	8.436E-06	8.519E-06	8.617E-06
PA233	2.815E-07	4.527E-07	4.691E-07	4.543E-08	4.785E-09	4.711E-10	4.718E-10	4.741E-10	4.771E-10	4.806E-10	4.851E-10
U233	5.939E-05	6.032E-05	6.141E-08	4.862E-07	5.279E-07	5.499E-07	5.720E-07	6.163E-07	6.609E-07	7.057E-07	7.591E-07
U234	6.925E+01	6.925E+01	6.925E-02	6.927E-02	6.927E-02	6.928E-02	6.929E-02	6.932E-02	6.935E-02	6.937E-02	6.940E-02
U235	8.726E+03	8.726E+03	8.726E+00	8.726E+00	8.726E+00	8.726E+00	8.726E+00	8.727E+00	8.727E+00	8.727E+00	8.727E+00
U236	6.889E+02	6.889E+02	6.889E-01	6.889E-01	6.889E-01	6.889E-01	6.890E-01	6.890E-01	6.891E-01	6.892E-01	6.892E-01
U237	1.423E+00	1.207E-04	2.627E-10	2.495E-10	2.465E-10	2.033E-10	1.598E-10	9.877E-11	6.103E-11	3.771E-11	2.137E-11
U238	9.883E+05	9.883E+05	9.883E+02	9.883E+02	9.883E+02	9.883E+02	9.883E+02	9.883E+02	9.883E+02	9.883E+02	9.883E+02
U239	2.683E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NP237	1.244E+01	1.386E+01	1.386E-02	1.386E-02	1.386E-02	1.387E-02	1.389E-02	1.396E-02	1.405E-02	1.415E-02	1.426E-02
NP238	2.633E-02	2.851E-11	2.847E-14	2.844E-14	2.841E-14	2.789E-14	2.726E-14	2.605E-14	2.489E-14	2.378E-14	2.253E-14
NP239	3.864E+01	2.038E-09	1.954E-12	1.954E-12	1.954E-12	1.954E-12	1.953E-12	1.951E-12	1.949E-12	1.947E-12	1.945E-12
NP240	4.866E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PU238	3.842E-01	4.101E-01	4.096E-04	4.090E-04	4.083E-04	3.959E-04	3.806E-04	3.517E-04	3.250E-04	3.003E-04	2.736E-04
PU239	9.273E+02	9.662E+02	9.662E-01	9.662E-01	9.662E-01	9.661E-01	9.659E-01	9.657E-01	9.654E-01	9.651E-01	9.648E-01
PU240	6.306E+01	6.306E+01	6.306E-02	6.306E-02	6.305E-02	6.303E-02	6.299E-02	6.293E-02	6.286E-02	6.279E-02	6.272E-02

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PU241      8.354E+00 8.254E+00 8.155E-03 8.058E-03 7.961E-03 6.567E-03 5.162E-03 3.190E-03 1.971E-03 1.218E-03 6.902E-04
PU242      2.074E-01 2.074E-01 2.074E-04 2.074E-04 2.074E-04 2.074E-04 2.074E-04 2.074E-04 2.074E-04 2.074E-04 2.074E-04
AM241      3.122E-02 1.311E-01 2.298E-04 3.272E-04 4.235E-04 1.811E-03 3.195E-03 5.099E-03 6.227E-03 6.874E-03 7.268E-03
AM242M     1.522E-04 1.520E-04 1.519E-07 1.517E-07 1.515E-07 1.488E-07 1.454E-07 1.389E-07 1.327E-07 1.268E-07 1.202E-07
AM243      2.243E-03 2.274E-03 2.274E-06 2.274E-06 2.274E-06 2.273E-06 2.272E-06 2.270E-06 2.268E-06 2.266E-06 2.263E-06
CM242      1.273E-03 9.017E-04 6.119E-07 4.153E-07 2.819E-07 9.294E-10 3.521E-10 3.360E-10 3.211E-10 3.067E-10 2.907E-10
SUMTOT     9.988E+05 9.988E+05 9.988E+02 9.988E+02 9.988E+02 9.988E+02 9.988E+02 9.988E+02 9.988E+02 9.988E+02 9.988E+02

TOTAL      9.988E+05 9.988E+05 9.988E+02 9.988E+02 9.988E+02 9.988E+02 9.988E+02 9.988E+02 9.988E+02 9.988E+02 9.988E+02
                                                                                OUTPUT UNIT =  6                      PAGE   52
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:26

    *  PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240
                                                                                                ACTINIDES+DAUGHTERS
    POWER= 1.00000E+00 MW,  BURNUP= 1.00000E+00 MWD,  FLUX= 1.00E+00 N/CM**2-SEC

                    5 SUMMARY TABLE:  CONCENTRATIONS, GRAMS
                              PUREX 1WW SIMULANT  FROM 1 MTU FUEL @ 6% PU-240
           0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
HE         1.004E-04 2.676E-04 4.332E-04 4.334E-04 4.335E-04 4.362E-04 4.397E-04 4.472E-04 4.550E-04 4.629E-04 4.725E-04
TH         8.170E-05 1.354E-04 1.886E-04 1.754E-04 1.745E-04 1.752E-04 1.763E-04 1.784E-04 1.805E-04 1.826E-04 1.851E-04
PA         4.118E-06 6.463E-06 8.627E-06 8.240E-06 8.201E-06 8.230E-06 8.271E-06 8.354E-06 8.437E-06 8.520E-06 8.617E-06
 U         9.978E+05 9.978E+05 9.978E+02 9.978E+02 9.978E+02 9.978E+02 9.978E+02 9.978E+02 9.978E+02 9.978E+02 9.978E+02
NP         5.111E+01 1.386E+01 1.386E-02 1.386E-02 1.386E-02 1.387E-02 1.389E-02 1.396E-02 1.405E-02 1.415E-02 1.428E-02
PU         9.993E+02 1.038E+03 1.038E+00 1.038E+00 1.038E+00 1.036E+00 1.035E+00 1.032E+00 1.031E+00 1.030E+00 1.029E+00
AM         3.368E-02 1.335E-01 2.322E-04 3.297E-04 4.259E-04 1.813E-03 3.197E-03 5.102E-03 6.229E-03 6.876E-03 7.270E-03
CM         1.314E-03 9.420E-04 6.519E-07 4.549E-07 3.211E-07 3.470E-08 2.838E-08 1.967E-08 1.368E-08 9.568E-09 6.328E-09
SUMTOT     9.988E+05 9.988E+05 9.988E+02 9.988E+02 9.988E+02 9.988E+02 9.988E+02 9.988E+02 9.988E+02 9.988E+02 9.988E+02

TOTAL      9.988E+05 9.988E+05 9.988E+02 9.988E+02 9.988E+02 9.988E+02 9.988E+02 9.988E+02 9.988E+02 9.988E+02 9.988E+02

                                   CUMULATIVE TABLE TOTALS

AP+FP      7.569E+04 7.569E+04 7.569E+04 7.569E+04 7.569E+04 7.569E+04 7.569E+04 7.569E+04 7.569E+04 7.569E+04 7.569E+04
ACT+FP     9.988E+05 9.988E+05 9.988E+02 9.988E+02 9.988E+02 9.988E+02 9.988E+02 9.988E+02 9.988E+02 9.988E+02 9.988E+02
AP+ACT+FP  1.075E+06 1.075E+06 7.669E+04 7.669E+04 7.669E+04 7.669E+04 7.669E+04 7.669E+04 7.669E+04 7.669E+04 7.669E+04
                                                                                OUTPUT UNIT =  6                      PAGE   53
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:26

    *  PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240
                                                                                                ACTINIDES+DAUGHTERS
    POWER= 1.00000E+00 MW,  BURNUP= 1.00000E+00 MWD,  FLUX= 1.00E+00 N/CM**2-SEC
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7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
TL207	3.825E-10	1.763E-09	4.019E-09	6.912E-09	9.912E-09	5.627E-08	1.053E-07	1.835E-07	2.415E-07	2.848E-07	3.223E-07
TL208	6.775E-07	1.795E-06	2.938E-06	2.691E-06	2.459E-06	5.970E-07	1.241E-07	3.444E-08	2.953E-08	2.681E-08	2.393E-08
PB209	1.114E-10	7.875E-11	8.935E-11	9.469E-11	9.492E-11	9.691E-11	9.943E-11	1.048E-10	1.105E-10	1.167E-10	1.244E-10
PB210	7.240E-13	2.026E-12	5.160E-12	1.080E-11	1.908E-11	4.949E-10	1.919E-09	7.056E-09	1.458E-08	2.389E-08	3.655E-08
PB211	3.835E-10	1.768E-09	4.031E-09	6.931E-09	9.940E-09	5.643E-08	1.056E-07	1.840E-07	2.422E-07	2.856E-07	3.232E-07
PB212	1.886E-06	4.995E-06	8.176E-06	7.490E-06	6.845E-06	1.661E-06	3.455E-07	9.585E-08	8.220E-08	7.461E-08	6.660E-08
PB214	8.852E-11	2.771E-10	5.712E-10	9.180E-10	1.265E-09	6.825E-09	1.380E-08	2.783E-08	4.196E-08	5.620E-08	7.314E-08
BI210	7.246E-13	2.026E-12	5.162E-12	1.081E-11	1.909E-11	4.949E-10	1.919E-09	7.057E-09	1.459E-08	2.389E-08	3.656E-08
BI211	3.836E-10	1.768E-09	4.031E-09	6.931E-09	9.940E-09	5.643E-08	1.056E-07	1.840E-07	2.422E-07	2.856E-07	3.232E-07
BI212	1.886E-06	4.995E-06	8.176E-06	7.490E-06	6.845E-06	1.661E-06	3.455E-07	9.585E-08	8.220E-08	7.461E-08	6.660E-08
BI213	1.114E-10	7.875E-11	8.935E-11	9.469E-11	9.492E-11	9.691E-11	9.943E-11	1.048E-10	1.105E-10	1.167E-10	1.244E-10
BI214	8.852E-11	2.771E-10	5.712E-10	9.180E-10	1.265E-09	6.825E-09	1.380E-08	2.783E-08	4.196E-08	5.620E-08	7.314E-08
PO210	9.396E-14	5.261E-13	1.597E-12	3.876E-12	7.866E-12	4.949E-10	1.919E-09	7.057E-09	1.459E-08	2.389E-08	3.656E-08
PO211	1.074E-12	4.951E-12	1.129E-11	1.941E-11	2.783E-11	1.580E-10	2.956E-10	5.152E-10	6.782E-10	7.997E-10	9.049E-10
PO212	1.208E-06	3.201E-06	5.239E-06	4.799E-06	4.386E-06	1.065E-06	2.214E-07	6.141E-08	5.266E-08	4.780E-08	4.267E-08
PO213	0.000E+00	7.705E-11	8.742E-11	9.264E-11	9.287E-11	9.482E-11	9.729E-11	1.025E-10	1.081E-10	1.141E-10	1.217E-10
PO214	2.147E-10	2.771E-10	5.711E-10	9.178E-10	1.265E-09	6.823E-09	1.380E-08	2.782E-08	4.195E-08	5.619E-08	7.313E-08
PO215	3.834E-10	1.768E-09	4.031E-09	6.931E-09	9.940E-09	5.643E-08	1.056E-07	1.840E-07	2.422E-07	2.856E-07	3.232E-07
PO216	1.484E-06	4.995E-06	8.176E-06	7.490E-06	6.845E-06	1.661E-06	3.455E-07	9.585E-08	8.220E-08	7.461E-08	6.660E-08
PO218	8.782E-11	2.772E-10	5.713E-10	9.182E-10	1.265E-09	6.826E-09	1.380E-08	2.783E-08	4.197E-08	5.621E-08	7.316E-08
AT217	1.114E-10	7.875E-11	8.935E-11	9.469E-11	9.492E-11	9.691E-11	9.943E-11	1.048E-10	1.105E-10	1.167E-10	1.244E-10
RN219	3.837E-10	1.768E-09	4.031E-09	6.931E-09	9.940E-09	5.643E-08	1.056E-07	1.840E-07	2.422E-07	2.856E-07	3.232E-07
RN220	1.886E-06	4.995E-06	8.176E-06	7.490E-06	6.845E-06	1.661E-06	3.455E-07	9.585E-08	8.220E-08	7.461E-08	6.660E-08
RN222	8.852E-11	2.772E-10	5.713E-10	9.182E-10	1.265E-09	6.826E-09	1.380E-08	2.783E-08	4.197E-08	5.621E-08	7.316E-08
FR221	1.114E-10	7.875E-11	8.935E-11	9.469E-11	9.492E-11	9.691E-11	9.943E-11	1.048E-10	1.105E-10	1.167E-10	1.244E-10
FR223	1.156E-11	3.708E-11	7.350E-11	1.153E-10	1.567E-10	7.784E-10	1.456E-09	2.537E-09	3.338E-09	3.936E-09	4.454E-09
RA223	3.835E-10	1.768E-09	4.031E-09	6.931E-09	9.940E-09	5.643E-08	1.056E-07	1.840E-07	2.422E-07	2.856E-07	3.232E-07
RA224	1.887E-06	4.995E-06	8.176E-06	7.490E-06	6.845E-06	1.661E-06	3.455E-07	9.585E-08	8.220E-08	7.461E-08	6.660E-08
RA225	1.492E-10	7.883E-11	9.152E-11	9.479E-11	9.494E-11	9.691E-11	9.943E-11	1.048E-10	1.105E-10	1.167E-10	1.244E-10
RA226	8.853E-11	2.772E-10	5.713E-10	9.182E-10	1.265E-09	6.826E-09	1.380E-08	2.783E-08	4.197E-08	5.621E-08	7.316E-08
AC225	1.114E-10	7.875E-11	8.935E-11	9.469E-11	9.492E-11	9.691E-11	9.943E-11	1.048E-10	1.105E-10	1.167E-10	1.244E-10
AC227	8.380E-10	2.687E-09	5.326E-09	8.353E-09	1.136E-08	5.640E-08	1.055E-07	1.838E-07	2.419E-07	2.852E-07	3.227E-07
TH227	5.240E-10	2.066E-09	4.437E-09	7.359E-09	1.033E-08	5.565E-08	1.041E-07	1.815E-07	2.389E-07	2.817E-07	3.187E-07
TH228	1.881E-06	4.986E-06	8.152E-06	7.450E-06	6.809E-06	1.653E-06	3.441E-07	9.581E-08	8.218E-08	7.459E-08	6.659E-08
TH229	6.718E-11	8.086E-11	9.478E-11	9.485E-11	9.497E-11	9.691E-11	9.943E-11	1.048E-10	1.105E-10	1.167E-10	1.244E-10
TH230	1.255E-06	2.229E-06	3.203E-06	3.204E-06	3.205E-06	3.221E-06	3.240E-06	3.279E-06	3.317E-06	3.356E-06	3.402E-06
TH231	3.694E-02	1.887E-02	1.887E-02	1.887E-05	1.887E-05	1.887E-05	1.887E-05	1.887E-05	1.887E-05	1.887E-05	1.887E-05
TH234	3.213E-01	3.316E-01	3.323E-01	2.434E-02	2.069E-03	3.324E-04	3.324E-04	3.324E-04	3.324E-04	3.324E-04	3.324E-04
PA231	1.809E-07	2.840E-07	3.854E-07	3.872E-07	3.873E-07	3.889E-07	3.908E-07	3.947E-07	3.986E-07	4.026E-07	4.072E-07
PA232	3.161E-03	3.310E-24	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PA233	5.845E-03	9.399E-03	9.740E-03	9.433E-04	9.935E-05	9.782E-06	9.796E-06	9.843E-06	9.906E-06	9.979E-06	1.007E-05
PA234M	3.213E-01	3.316E-01	3.323E-01	2.435E-02	2.069E-03	3.324E-04	3.324E-04	3.324E-04	3.324E-04	3.324E-04	3.324E-04
PA234	4.589E-04	4.311E-04	4.320E-04	3.165E-05	2.690E-06	4.321E-07	4.321E-07	4.321E-07	4.321E-07	4.321E-07	4.321E-07
U232	3.557E-05	3.965E-05	4.334E-08	4.679E-08	5.003E-08	8.066E-08	9.069E-08	8.749E-08	7.991E-08	7.261E-08	6.482E-08
U233	5.751E-07	5.842E-07	5.947E-10	4.708E-09	5.113E-09	5.325E-09	5.539E-09	5.968E-09	6.400E-09	6.834E-09	7.351E-09
U234	4.329E-01	4.329E-01	4.329E-04	4.330E-04	4.330E-04	4.331E-04	4.332E-04	4.333E-04	4.335E-04	4.336E-04	4.338E-04
U235	1.887E-02	1.887E-02	1.887E-05	1.887E-05	1.887E-05	1.887E-05	1.887E-05	1.887E-05	1.887E-05	1.887E-05	1.887E-05
U236	4.459E-02	4.459E-02	4.459E-05	4.459E-05	4.459E-05	4.459E-05	4.459E-05	4.460E-05	4.460E-05	4.460E-05	4.461E-05
U237	1.162E+05	9.859E+00	2.145E-05	2.037E-05	2.013E-05	1.660E-05	1.305E-05	8.065E-06	4.984E-06	3.079E-06	1.745E-06
U238	3.324E-01	3.324E-01	3.324E-04	3.324E-04	3.324E-04	3.324E-04	3.324E-04	3.324E-04	3.324E-04	3.324E-04	3.324E-04
U239	8.973E+06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 54

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

ACTINIDES+DAUGHTERS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
U240	1.191E+01	3.879E-16	3.879E-19	3.879E-19	3.879E-19	3.879E-19	3.879E-19	3.879E-19	3.879E-19	3.879E-19	3.879E-19
NP235	3.130E-05	2.668E-05	2.274E-08	1.938E-08	1.652E-08	1.281E-09	5.241E-11	8.803E-14	1.472E-16	2.619E-19	1.388E-22
NP236M	1.177E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NP236	2.860E-08	2.860E-08	2.860E-11	2.860E-11	2.860E-11	2.860E-11	2.860E-11	2.859E-11	2.859E-11	2.859E-11	2.859E-11
NP237	8.773E-03	9.776E-03	9.776E-06	9.776E-06	9.777E-06	9.782E-06	9.796E-06	9.843E-06	9.906E-06	9.979E-06	1.007E-05
NP238	6.827E+03	7.391E-06	7.382E-09	7.374E-09	7.365E-09	7.232E-09	7.069E-09	6.754E-09	6.453E-09	6.165E-09	5.842E-09
NP239	8.967E+06	4.728E-04	4.536E-07	4.535E-07	4.535E-07	4.534E-07	4.531E-07	4.527E-07	4.523E-07	4.519E-07	4.514E-07
NP240M	1.487E+03	3.879E-16	3.879E-19	3.879E-19	3.879E-19	3.879E-19	3.879E-19	3.879E-19	3.879E-19	3.879E-19	3.879E-19
NP240	5.868E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PU236	1.671E-03	1.621E-03	1.525E-06	1.435E-06	1.350E-06	5.107E-07	1.514E-07	1.332E-08	1.173E-09	1.055E-10	8.415E-12
PU237	4.505E-03	1.124E-03	2.806E-07	7.003E-08	1.748E-08	3.959E-18	3.480E-30	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PU238	6.580E+00	7.024E+00	7.015E-03	7.005E-03	6.993E-03	6.780E-03	6.518E-03	6.023E-03	5.565E-03	5.143E-03	4.685E-03
PU239	5.766E+01	6.008E+01	6.008E-02	6.008E-02	6.008E-02	6.008E-02	6.007E-02	6.005E-02	6.003E-02	6.002E-02	5.999E-02
PU240	1.437E+01	1.437E+01	1.437E-02	1.437E-02	1.437E-02	1.437E-02	1.436E-02	1.434E-02	1.433E-02	1.431E-02	1.430E-02
PU241	8.610E+02	8.507E+02	8.405E-01	8.305E-01	8.205E-01	6.768E-01	5.320E-01	3.288E-01	2.031E-01	1.255E-01	7.113E-02
PU242	7.922E-04	7.922E-04	7.922E-07	7.922E-07	7.922E-07	7.922E-07	7.922E-07	7.922E-07	7.922E-07	7.922E-07	7.922E-07
PU243	8.172E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AM241	1.072E-01	4.502E-01	7.889E-04	1.124E-03	1.454E-03	6.216E-03	1.097E-02	1.751E-02	2.138E-02	2.360E-02	2.495E-02
AM242M	1.480E-03	1.478E-03	1.476E-06	1.475E-06	1.473E-06	1.446E-06	1.414E-06	1.351E-06	1.291E-06	1.233E-06	1.168E-06
AM242	5.425E+01	1.471E-03	1.469E-06	1.467E-06	1.466E-06	1.439E-06	1.407E-06	1.344E-06	1.284E-06	1.227E-06	1.163E-06
AM243	4.473E-04	4.536E-04	4.536E-07	4.535E-07	4.535E-07	4.534E-07	4.531E-07	4.527E-07	4.523E-07	4.519E-07	4.514E-07
AM244M	1.583E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

AM244	8.314E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CM242	4.211E+00	2.982E+00	2.024E-03	1.374E-03	9.325E-04	3.074E-06	1.165E-06	1.112E-06	1.062E-06	1.015E-06	9.615E-07
CM243	1.110E-04	1.103E-04	1.096E-07	1.090E-07	1.083E-07	9.827E-08	8.702E-08	6.823E-08	5.350E-08	4.195E-08	3.149E-08
CM244	3.101E-03	3.081E-03	3.051E-06	3.022E-06	2.994E-06	2.569E-06	2.121E-06	1.447E-06	9.866E-07	6.728E-07	4.283E-07
CM245	2.345E-08	2.345E-08	2.344E-11	2.344E-11	2.344E-11	2.344E-11	2.343E-11	2.341E-11	2.339E-11	2.337E-11	2.335E-11
SUMTOT	1.807E+07	9.470E+02	1.619E+00	9.650E-01	9.095E-01	7.658E-01	6.255E-01	4.282E-01	3.060E-01	2.302E-01	1.766E-01
TOTAL	1.807E+07	9.470E+02	1.619E+00	9.650E-01	9.095E-01	7.658E-01	6.255E-01	4.282E-01	3.060E-01	2.302E-01	1.766E-01

OUTPUT UNIT = 6

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

ACTINIDES+DAUGHTERS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
TL	6.779E-07	1.797E-06	2.942E-06	2.698E-06	2.469E-06	6.532E-07	2.294E-07	2.179E-07	2.711E-07	3.116E-07	3.462E-07
PB	1.887E-06	4.998E-06	8.181E-06	7.497E-06	6.856E-06	1.725E-06	4.669E-07	3.149E-07	3.811E-07	4.404E-07	4.996E-07
BI	1.887E-06	4.998E-06	8.181E-06	7.497E-06	6.856E-06	1.725E-06	4.669E-07	3.149E-07	3.811E-07	4.404E-07	4.996E-07
PO	2.693E-06	8.199E-06	1.342E-05	1.230E-05	1.124E-05	2.797E-06	7.023E-07	4.046E-07	4.764E-07	5.452E-07	6.163E-07
AT	1.114E-10	7.875E-11	8.935E-11	9.469E-11	9.492E-11	9.691E-11	9.943E-11	1.048E-10	1.105E-10	1.167E-10	1.244E-10
RN	1.886E-06	4.998E-06	8.181E-06	7.497E-06	6.856E-06	1.725E-06	4.649E-07	3.077E-07	3.664E-07	4.164E-07	4.629E-07
FR	1.230E-10	1.158E-10	1.629E-10	2.100E-10	2.516E-10	8.753E-10	1.555E-09	2.642E-09	3.449E-09	4.052E-09	4.578E-09
RA	1.887E-06	4.998E-06	8.181E-06	7.497E-06	6.856E-06	1.725E-06	4.650E-07	3.078E-07	3.665E-07	4.165E-07	4.631E-07
AC	9.493E-10	2.766E-09	5.416E-09	8.448E-09	1.145E-08	5.650E-08	1.056E-07	1.839E-07	2.420E-07	2.853E-07	3.228E-07
TH	3.583E-01	3.505E-01	3.512E-01	2.437E-02	2.098E-03	3.562E-04	3.550E-04	3.548E-04	3.549E-04	3.550E-04	3.551E-04
PA	3.308E-01	3.414E-01	3.425E-01	2.532E-02	2.172E-03	3.430E-04	3.430E-04	3.431E-04	3.431E-04	3.432E-04	3.433E-04
U	9.089E+06	1.069E+01	8.502E-04	8.493E-04	8.490E-04	8.456E-04	8.422E-04	8.374E-04	8.344E-04	8.327E-04	8.315E-04
NP	8.981E+06	1.028E-02	1.026E-05	1.026E-05	1.025E-05	1.024E-05	1.026E-05	1.030E-05	1.037E-05	1.044E-05	1.053E-05
PU	1.021E+03	9.322E+02	9.220E-01	9.119E-01	9.020E-01	7.580E-01	6.130E-01	4.092E-01	2.831E-01	2.050E-01	1.501E-01
AM	5.602E+01	4.536E-01	7.923E-04	1.127E-03	1.457E-03	6.220E-03	1.097E-02	1.751E-02	2.138E-02	2.360E-02	2.496E-02
CM	4.214E+00	2.986E+00	2.027E-03	1.377E-03	9.356E-04	5.741E-06	3.373E-06	2.626E-06	2.102E-06	1.729E-06	1.421E-06
SUMTOT	1.807E+07	9.470E+02	1.619E+00	9.650E-01	9.095E-01	7.658E-01	6.255E-01	4.282E-01	3.060E-01	2.302E-01	1.766E-01
TOTAL	1.807E+07	9.470E+02	1.619E+00	9.650E-01	9.095E-01	7.658E-01	6.255E-01	4.282E-01	3.060E-01	2.302E-01	1.766E-01

CUMULATIVE TABLE TOTALS

AP+FP	5.091E+04	3.767E+03	1.692E+03	7.566E+02	3.673E+02	2.794E+01	9.138E+00	2.002E+00	1.094E+00	8.845E-01	7.825E-01
ACT+FP	1.807E+07	9.470E+02	1.619E+00	9.650E-01	9.095E-01	7.658E-01	6.255E-01	4.282E-01	3.060E-01	2.302E-01	1.766E-01
AP+ACT+FP	1.812E+07	4.714E+03	1.693E+03	7.576E+02	3.682E+02	2.871E+01	9.764E+00	2.430E+00	1.400E+00	1.115E+00	9.591E-01

OUTPUT UNIT = 6 PAGE 56

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

ACTINIDES+DAUGHTERS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
TL207	1.123E-12	5.178E-12	1.180E-11	2.030E-11	2.911E-11	1.652E-10	3.092E-10	5.389E-10	7.093E-10	8.364E-10	9.464E-10
TL208	1.594E-08	4.224E-08	6.913E-08	6.333E-08	5.788E-08	1.405E-08	2.921E-09	8.105E-10	6.950E-10	6.308E-10	5.631E-10
PB210	1.677E-16	4.692E-16	1.195E-15	2.502E-15	4.421E-15	1.147E-13	4.444E-13	1.635E-12	3.378E-12	5.533E-12	8.468E-12
PB211	1.149E-12	5.299E-12	1.208E-11	2.077E-11	2.978E-11	1.691E-10	3.164E-10	5.514E-10	7.258E-10	8.558E-10	9.684E-10
PB212	3.591E-09	9.511E-09	1.557E-08	1.426E-08	1.303E-08	3.163E-09	6.578E-10	1.825E-10	1.565E-10	1.420E-10	1.268E-10
PB214	2.823E-13	8.838E-13	1.822E-12	2.928E-12	4.034E-12	2.176E-11	4.400E-11	8.874E-11	1.338E-10	1.792E-10	2.333E-10
BI210	1.671E-15	4.672E-15	1.190E-14	2.492E-14	4.402E-14	1.141E-12	4.424E-12	1.627E-11	3.363E-11	5.509E-11	8.431E-11
BI211	1.530E-11	7.053E-11	1.608E-10	2.765E-10	3.965E-10	2.251E-09	4.212E-09	7.340E-09	9.661E-09	1.139E-08	1.289E-08
BI212	3.207E-08	8.496E-08	1.391E-07	1.274E-07	1.164E-07	2.826E-08	5.876E-09	1.630E-09	1.398E-09	1.269E-09	1.133E-09
BI213	4.681E-13	3.311E-13	3.756E-13	3.980E-13	3.990E-13	4.074E-13	4.180E-13	4.405E-13	4.646E-13	4.904E-13	5.231E-13
BI214	1.134E-12	3.551E-12	7.320E-12	1.177E-11	1.621E-11	8.746E-11	1.768E-10	3.566E-10	5.377E-10	7.202E-10	9.373E-10
PO210	3.012E-15	1.687E-14	5.118E-14	1.243E-13	2.522E-13	1.587E-11	6.151E-11	2.262E-10	4.675E-10	7.659E-10	1.172E-09
PO211	4.832E-14	2.228E-13	5.079E-13	8.734E-13	1.253E-12	7.110E-12	1.330E-11	2.319E-11	3.052E-11	3.599E-11	4.072E-11
PO212	6.400E-08	1.696E-07	2.776E-07	2.543E-07	2.324E-07	5.641E-08	1.173E-08	3.255E-09	2.791E-09	2.533E-09	2.261E-09
PO213	0.000E+00	3.899E-12	4.424E-12	4.688E-12	4.700E-12	4.798E-12	4.923E-12	5.187E-12	5.472E-12	5.776E-12	6.161E-12
PO214	9.968E-12	1.286E-11	2.652E-11	4.262E-11	5.872E-11	3.168E-10	6.405E-10	1.292E-09	1.948E-09	2.609E-09	3.395E-09
PO215	1.712E-11	7.894E-11	1.799E-10	3.094E-10	4.437E-10	2.519E-09	4.714E-09	8.215E-09	1.081E-08	1.275E-08	1.443E-08
PO216	6.076E-08	2.045E-07	3.347E-07	3.066E-07	2.802E-07	6.801E-08	1.414E-08	3.924E-09	3.365E-09	3.054E-09	2.726E-09
PO218	3.182E-12	1.004E-11	2.070E-11	3.327E-11	4.585E-11	2.473E-10	5.001E-10	1.008E-09	1.521E-09	2.037E-09	2.651E-09
AT217	4.754E-12	3.361E-12	3.813E-12	4.041E-12	4.051E-12	4.136E-12	4.243E-12	4.471E-12	4.716E-12	4.978E-12	5.310E-12
RN219	1.592E-11	7.337E-11	1.672E-10	2.876E-10	4.124E-10	2.341E-09	4.381E-09	7.635E-09	1.005E-08	1.185E-08	1.341E-08
RN220	7.161E-08	1.897E-07	3.104E-07	2.844E-07	2.599E-07	6.308E-08	1.312E-08	3.639E-09	3.121E-09	2.833E-09	2.528E-09
RN222	2.933E-12	9.184E-12	1.893E-11	3.043E-11	4.192E-11	2.262E-10	4.573E-10	9.222E-10	1.391E-09	1.863E-09	2.424E-09
FR221	4.299E-12	3.039E-12	3.449E-12	3.654E-12	3.663E-12	3.740E-12	3.838E-12	4.044E-12	4.265E-12	4.502E-12	4.802E-12
FR223	3.002E-14	9.631E-14	1.909E-13	2.994E-13	4.070E-13	2.021E-12	3.780E-12	6.588E-12	8.669E-12	1.022E-11	1.157E-11
RA223	1.366E-11	6.296E-11	1.435E-10	2.468E-10	3.539E-10	2.009E-09	3.760E-09	6.552E-09	8.625E-09	1.017E-08	1.151E-08
RA224	6.475E-08	1.715E-07	2.806E-07	2.570E-07	2.349E-07	5.702E-08	1.186E-08	3.290E-09	2.821E-09	2.561E-09	2.285E-09
RA226	2.556E-12	8.003E-12	1.650E-11	2.651E-11	3.653E-11	1.971E-10	3.985E-10	8.036E-10	1.212E-09	1.623E-09	2.112E-09
AC225	3.890E-12	2.751E-12	3.121E-12	3.308E-12	3.316E-12	3.385E-12	3.473E-12	3.660E-12	3.860E-12	4.075E-12	4.347E-12
AC227	4.058E-13	1.301E-12	2.579E-12	4.045E-12	5.499E-12	2.731E-11	5.107E-11	8.902E-11	1.171E-10	1.381E-10	1.563E-10
TH227	1.912E-11	7.542E-11	1.620E-10	2.686E-10	3.769E-10	2.031E-09	3.800E-09	6.623E-09	8.718E-09	1.028E-08	1.163E-08
TH228	6.152E-08	1.631E-07	2.666E-07	2.436E-07	2.227E-07	5.406E-08	1.125E-08	3.133E-09	2.688E-09	2.439E-09	2.178E-09
TH229	2.055E-12	2.474E-12	2.899E-12	2.902E-12	2.905E-12	2.965E-12	3.042E-12	3.205E-12	3.381E-12	3.569E-12	3.807E-12

TH230	3.551E-08	6.308E-08	9.065E-08	9.067E-08	9.070E-08	9.114E-08	9.169E-08	9.278E-08	9.388E-08	9.497E-08	9.627E-08
TH231	2.073E-05	1.059E-05	1.059E-05	1.059E-08	1.059E-08	1.059E-08	1.059E-08	1.059E-08	1.059E-08	1.059E-08	1.059E-08
TH234	1.303E-04	1.344E-04	1.347E-04	9.871E-06	8.389E-07	1.348E-07	1.348E-07	1.348E-07	1.348E-07	1.348E-07	1.348E-07
PA231	5.450E-09	8.556E-09	1.161E-08	1.167E-08	1.167E-08	1.172E-08	1.178E-08	1.189E-08	1.201E-08	1.213E-08	1.227E-08
PA232	2.067E-05	2.164E-26	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PA233	1.327E-05	2.133E-05	2.211E-05	2.141E-06	2.255E-07	2.220E-08	2.223E-08	2.234E-08	2.248E-08	2.265E-08	2.286E-08
PA234M	1.588E-03	1.639E-03	1.642E-03	1.203E-04	1.023E-05	1.643E-06	1.643E-06	1.643E-06	1.643E-06	1.643E-06	1.643E-06
PA234	6.592E-06	6.191E-06	6.205E-06	4.546E-07	3.863E-08	6.206E-09	6.206E-09	6.206E-09	6.206E-09	6.206E-09	6.206E-09
U232	1.142E-06	1.273E-06	1.391E-09	1.502E-09	1.606E-09	2.590E-09	2.912E-09	2.809E-09	2.565E-09	2.331E-09	2.081E-09
U233	1.672E-08	1.698E-08	1.729E-11	1.369E-10	1.486E-10	1.548E-10	1.610E-10	1.735E-10	1.860E-10	1.987E-10	2.137E-10
U234	1.247E-02	1.247E-02	1.247E-05	1.247E-05	1.247E-05	1.247E-05	1.248E-05	1.248E-05	1.249E-05	1.249E-05	1.249E-05
U235	4.942E-04	4.942E-04	4.942E-07	4.942E-07	4.942E-07	4.942E-07	4.942E-07	4.942E-07	4.942E-07	4.942E-07	4.942E-07
U236	1.208E-03	1.208E-03	1.208E-06	1.208E-06	1.208E-06	1.208E-06	1.208E-06	1.208E-06	1.208E-06	1.208E-06	1.208E-06
U237	2.199E+02	1.866E-02	4.059E-08	3.855E-08	3.809E-08	3.142E-08	2.469E-08	1.526E-08	9.429E-09	5.827E-09	3.302E-09
U238	8.431E-03	8.431E-03	8.431E-06	8.431E-06	8.431E-06	8.431E-06	8.431E-06	8.431E-06	8.431E-06	8.431E-06	8.431E-06
U239	2.415E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U240	9.767E-03	3.182E-19	3.182E-22	3.182E-22	3.182E-22	3.182E-22	3.182E-22	3.182E-22	3.182E-22	3.182E-22	3.182E-22
NP235	1.818E-09	1.550E-09	1.321E-12	1.126E-12	9.594E-13	7.440E-14	3.045E-15	5.114E-18	8.553E-21	1.521E-23	8.061E-27

OUTPUT UNIT = 6 PAGE 57

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

ACTINIDES+DAUGHTERS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
NP236M	9.303E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NP237	2.681E-04	2.988E-04	2.988E-07	2.988E-07	2.988E-07	2.990E-07	2.994E-07	3.008E-07	3.028E-07	3.050E-07	3.078E-07
NP238	3.270E+01	3.540E-08	3.536E-11	3.532E-11	3.528E-11	3.464E-11	3.386E-11	3.235E-11	3.091E-11	2.953E-11	2.798E-11
NP239	2.168E+04	1.143E-06	1.096E-09	1.096E-09	1.096E-09	1.096E-09	1.095E-09	1.094E-09	1.093E-09	1.092E-09	1.091E-09
NP240M	8.617E+00	2.248E-18	2.248E-21	2.248E-21	2.248E-21	2.248E-21	2.248E-21	2.248E-21	2.248E-21	2.248E-21	2.248E-21
NP240	6.219E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PU236	5.816E-05	5.640E-05	5.307E-08	4.994E-08	4.700E-08	1.777E-08	5.270E-09	4.634E-10	4.083E-11	3.672E-12	2.929E-13
PU237	1.661E-06	4.145E-07	1.035E-10	2.582E-11	6.444E-12	1.460E-21	1.283E-33	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PU238	2.181E-01	2.328E-01	2.325E-04	2.321E-04	2.318E-04	2.247E-04	2.160E-04	1.996E-04	1.844E-04	1.704E-04	1.553E-04
PU239	1.777E+00	1.852E+00	1.852E-03	1.852E-03	1.852E-03	1.851E-03	1.851E-03	1.851E-03	1.850E-03	1.850E-03	1.849E-03
PU240	4.476E-01	4.476E-01	4.476E-04	4.476E-04	4.476E-04	4.474E-04	4.471E-04	4.467E-04	4.462E-04	4.457E-04	4.452E-04
PU241	2.669E-02	2.637E-02	2.606E-05	2.575E-05	2.544E-05	2.098E-05	1.649E-05	1.019E-05	6.298E-06	3.892E-06	2.205E-06
PU242	2.340E-05	2.340E-05	2.340E-08	2.340E-08	2.340E-08	2.340E-08	2.340E-08	2.340E-08	2.340E-08	2.340E-08	2.339E-08
PU243	9.432E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AM241	3.561E-03	1.495E-02	2.621E-05	3.732E-05	4.830E-05	2.065E-04	3.644E-04	5.816E-04	7.102E-04	7.840E-04	8.289E-04

AM242M	5.845E-07	5.839E-07	5.832E-10	5.825E-10	5.819E-10	5.714E-10	5.585E-10	5.336E-10	5.098E-10	4.871E-10	4.616E-10
AM242	6.158E-02	1.669E-06	1.668E-09	1.666E-09	1.664E-09	1.634E-09	1.597E-09	1.526E-09	1.458E-09	1.393E-09	1.320E-09
AM243	1.438E-05	1.458E-05	1.458E-08	1.458E-08	1.458E-08	1.457E-08	1.457E-08	1.455E-08	1.454E-08	1.453E-08	1.451E-08
AM244M	4.789E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AM244	4.356E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CM242	1.551E-01	1.099E-01	7.458E-05	5.062E-05	3.436E-05	1.133E-07	4.291E-08	4.096E-08	3.913E-08	3.739E-08	3.543E-08
CM243	4.071E-06	4.047E-06	4.022E-09	3.998E-09	3.974E-09	3.605E-09	3.192E-09	2.503E-09	1.963E-09	1.539E-09	1.155E-09
CM244	1.085E-04	1.078E-04	1.067E-07	1.057E-07	1.047E-07	8.985E-08	7.420E-08	5.060E-08	3.451E-08	2.354E-08	1.498E-08
CM245	7.780E-10	7.780E-10	7.780E-13	7.780E-13	7.779E-13	7.777E-13	7.774E-13	7.767E-13	7.761E-13	7.755E-13	7.747E-13
SUMTOT	4.616E+04	2.727E+00	4.500E-03	2.803E-03	2.675E-03	2.776E-03	2.920E-03	3.114E-03	3.222E-03	3.279E-03	3.305E-03
TOTAL	4.616E+04	2.727E+00	4.500E-03	2.803E-03	2.675E-03	2.776E-03	2.920E-03	3.114E-03	3.222E-03	3.279E-03	3.305E-03

OUTPUT UNIT = 6

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

ACTINIDES+DAOGHTERS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
TL	1.595E-08	4.224E-08	6.915E-08	6.335E-08	5.791E-08	1.421E-08	3.230E-09	1.349E-09	1.404E-09	1.467E-09	1.509E-09
PB	3.593E-09	9.518E-09	1.558E-08	1.428E-08	1.307E-08	3.354E-09	1.019E-09	8.244E-10	1.020E-09	1.183E-09	1.337E-09
BI	3.209E-08	8.503E-08	1.392E-07	1.277E-07	1.168E-07	3.060E-08	1.027E-08	9.343E-09	1.163E-08	1.344E-08	1.505E-08
PO	1.248E-07	3.742E-07	6.126E-07	5.613E-07	5.132E-07	1.275E-07	3.181E-08	1.795E-08	2.094E-08	2.379E-08	2.668E-08
AT	4.754E-12	3.361E-12	3.813E-12	4.041E-12	4.051E-12	4.136E-12	4.243E-12	4.471E-12	4.716E-12	4.978E-12	5.310E-12
RN	7.162E-08	1.897E-07	3.106E-07	2.847E-07	2.603E-07	6.565E-08	1.796E-08	1.220E-08	1.456E-08	1.655E-08	1.836E-08
FR	4.329E-12	3.136E-12	3.639E-12	3.954E-12	4.070E-12	5.762E-12	7.618E-12	1.063E-11	1.293E-11	1.472E-11	1.637E-11
RA	6.477E-08	1.715E-07	2.808E-07	2.573E-07	2.353E-07	5.923E-08	1.602E-08	1.065E-08	1.266E-08	1.435E-08	1.591E-08
AC	4.296E-12	4.052E-12	5.701E-12	7.353E-12	8.816E-12	3.070E-11	5.456E-11	9.269E-11	1.210E-10	1.422E-10	1.606E-10
TH	1.511E-04	1.453E-04	1.457E-04	1.022E-05	1.163E-06	2.926E-07	2.521E-07	2.479E-07	2.506E-07	2.531E-07	2.554E-07
PA	1.629E-03	1.666E-03	1.671E-03	1.229E-04	1.050E-05	1.683E-06	1.683E-06	1.683E-06	1.683E-06	1.684E-06	1.684E-06
U	2.437E+04	4.126E-02	2.264E-05	2.264E-05	2.264E-05	2.264E-05	2.264E-05	2.263E-05	2.263E-05	2.263E-05	2.263E-05
NP	2.178E+04	3.000E-04	2.999E-07	2.999E-07	2.999E-07	3.001E-07	3.005E-07	3.019E-07	3.039E-07	3.061E-07	3.090E-07
PU	2.564E+00	2.559E+00	2.558E-03	2.557E-03	2.556E-03	2.545E-03	2.531E-03	2.507E-03	2.487E-03	2.470E-03	2.452E-03
AM	7.038E-02	1.497E-02	2.622E-05	3.734E-05	4.831E-05	2.065E-04	3.644E-04	5.816E-04	7.102E-04	7.840E-04	8.289E-04
CM	1.553E-01	1.100E-01	7.469E-05	5.073E-05	3.447E-05	2.067E-07	1.203E-07	9.406E-08	7.560E-08	6.246E-08	5.156E-08
SUMTOT	4.616E+04	2.727E+00	4.500E-03	2.803E-03	2.675E-03	2.776E-03	2.920E-03	3.114E-03	3.222E-03	3.279E-03	3.305E-03
TOTAL	4.616E+04	2.727E+00	4.500E-03	2.803E-03	2.675E-03	2.776E-03	2.920E-03	3.114E-03	3.222E-03	3.279E-03	3.305E-03

CUMULATIVE TABLE TOTALS

AP+FP	2.996E+02	1.704E+01	7.392E+00	3.051E+00	1.297E+00	8.813E-02	3.983E-02	9.533E-03	2.547E-03	7.611E-04	2.470E-04
ACT+FP	4.616E+04	2.727E+00	4.500E-03	2.803E-03	2.675E-03	2.776E-03	2.920E-03	3.114E-03	3.222E-03	3.279E-03	3.305E-03
AP+ACT+FP	4.645E+04	1.977E+01	7.396E+00	3.054E+00	1.300E+00	9.091E-02	4.275E-02	1.265E-02	5.770E-03	4.040E-03	3.552E-03

OUTPUT UNIT = 6 PAGE 59

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
H 3	1.909E-03	1.882E-03	1.856E-03	1.830E-03	1.805E-03	1.442E-03	1.089E-03	6.212E-04	3.544E-04	2.022E-04	1.042E-04
LI 6	1.391E-05	1.391E-05	1.391E-05	1.391E-05	1.391E-05	1.391E-05	1.391E-05	1.391E-05	1.391E-05	1.391E-05	1.391E-05
LI 7	3.525E-07	3.525E-07	3.525E-07	3.525E-07	3.525E-07	3.525E-07	3.525E-07	3.525E-07	3.525E-07	3.525E-07	3.525E-07
BE 9	6.798E-07	6.798E-07	6.798E-07	6.798E-07	6.798E-07	6.798E-07	6.798E-07	6.798E-07	6.798E-07	6.798E-07	6.798E-07
BE 10	4.532E-06	4.532E-06	4.532E-06	4.532E-06	4.532E-06	4.532E-06	4.532E-06	4.532E-06	4.532E-06	4.532E-06	4.532E-06
C 14	9.165E-07	9.165E-07	9.164E-07	9.164E-07	9.164E-07	9.159E-07	9.154E-07	9.143E-07	9.132E-07	9.121E-07	9.108E-07
ZN 72	2.230E-05	1.449E-19	9.415E-34	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 72	6.775E-06	6.306E-20	4.097E-34	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 72	7.458E-04	7.749E-04	7.749E-04	7.749E-04	7.749E-04	7.749E-04	7.749E-04	7.749E-04	7.749E-04	7.749E-04	7.749E-04
GA 73	5.175E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 73	1.738E-03	1.743E-03	1.743E-03	1.743E-03	1.743E-03	1.743E-03	1.743E-03	1.743E-03	1.743E-03	1.743E-03	1.743E-03
GA 74	2.922E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 74	3.576E-03	3.576E-03	3.576E-03	3.576E-03	3.576E-03	3.576E-03	3.576E-03	3.576E-03	3.576E-03	3.576E-03	3.576E-03
GA 75	1.480E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 75	6.486E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 75	7.779E-03	7.786E-03	7.786E-03	7.786E-03	7.786E-03	7.786E-03	7.786E-03	7.786E-03	7.786E-03	7.786E-03	7.786E-03
GE 76	1.941E-02	1.941E-02	1.941E-02	1.941E-02	1.941E-02	1.941E-02	1.941E-02	1.941E-02	1.941E-02	1.941E-02	1.941E-02
AS 76	4.508E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 76	1.451E-05	1.496E-05	1.496E-05	1.496E-05	1.496E-05	1.496E-05	1.496E-05	1.496E-05	1.496E-05	1.496E-05	1.496E-05
GE 77	9.770E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 77M	3.049E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 77	9.572E-04	1.095E-20	1.094E-37	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 77	4.020E-02	4.126E-02	4.126E-02	4.126E-02	4.126E-02	4.126E-02	4.126E-02	4.126E-02	4.126E-02	4.126E-02	4.126E-02
GE 78	7.342E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 78	7.791E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 78	8.419E-02	8.434E-02	8.434E-02	8.434E-02	8.434E-02	8.434E-02	8.434E-02	8.434E-02	8.434E-02	8.434E-02	8.434E-02
GE 79	1.326E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 79	1.974E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 79	2.185E-01	2.185E-01	2.185E-01	2.185E-01	2.185E-01	2.185E-01	2.185E-01	2.185E-01	2.185E-01	2.184E-01	2.184E-01

SE 79M	8.536E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 79	5.120E-07	1.095E-06	1.678E-06	2.261E-06	2.844E-06	1.217E-05	2.383E-05	4.714E-05	7.045E-05	9.376E-05	1.213E-04
GE 80	1.658E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 80	1.352E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 80	4.941E-01	4.941E-01	4.941E-01	4.941E-01	4.941E-01	4.941E-01	4.941E-01	4.941E-01	4.941E-01	4.941E-01	4.941E-01
KR 80	4.291E-06	4.302E-06	4.302E-06	4.302E-06	4.302E-06	4.302E-06	4.302E-06	4.302E-06	4.302E-06	4.302E-06	4.302E-06
GE 81	9.157E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 81	4.316E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 81	1.576E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 81M	1.409E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 81	8.536E-01	8.538E-01	8.538E-01	8.538E-01	8.538E-01	8.538E-01	8.538E-01	8.538E-01	8.538E-01	8.538E-01	8.538E-01
KR 81	1.620E-07	1.620E-07	1.620E-07	1.620E-07	1.620E-07	1.620E-07	1.620E-07	1.620E-07	1.620E-07	1.620E-07	1.620E-07
GE 82	3.900E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 82	2.858E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 82M	6.642E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 82	1.322E+00	1.322E+00	1.322E+00	1.322E+00	1.322E+00	1.322E+00	1.322E+00	1.322E+00	1.322E+00	1.322E+00	1.322E+00
BR 82	1.546E-04	3.191E-23	6.550E-42	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 82M	1.544E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 82	3.988E-03	4.143E-03	4.143E-03	4.143E-03	4.143E-03	4.143E-03	4.143E-03	4.143E-03	4.143E-03	4.143E-03	4.143E-03
GE 83	1.205E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 83	3.476E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 83	1.784E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 60

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
SE 83M	1.484E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 83	2.997E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 83	2.085E+00	2.090E+00	2.090E+00	2.090E+00	2.090E+00	2.090E+00	2.090E+00	2.090E+00	2.090E+00	2.090E+00	2.090E+00
KR 83M	2.295E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 84	1.193E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 84	1.237E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 84	1.220E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 84M	5.604E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 84	4.114E+00	4.115E+00	4.115E+00	4.115E+00	4.115E+00	4.115E+00	4.115E+00	4.115E+00	4.115E+00	4.115E+00	4.115E+00
AS 85	2.661E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 85	1.516E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

SE 85M	5.345E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 85	1.357E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 85	1.048E+00	1.034E+00	1.017E+00	1.001E+00	9.850E-01	7.605E-01	5.504E-01	2.883E-01	1.510E-01	7.912E-02	3.689E-02
KR 85M	1.286E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 85	3.916E+00	3.943E+00	3.960E+00	3.976E+00	3.992E+00	4.217E+00	4.427E+00	4.689E+00	4.826E+00	4.898E+00	4.940E+00
SE 86	1.336E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 86	3.256E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 86M	2.683E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 86	7.884E+00	7.884E+00	7.884E+00	7.884E+00	7.884E+00	7.884E+00	7.884E+00	7.884E+00	7.884E+00	7.884E+00	7.884E+00
RB 86	4.924E-04	1.656E-05	5.569E-07	1.873E-08	6.297E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 86	9.230E-04	1.399E-03	1.415E-03	1.415E-03	1.415E-03	1.415E-03	1.415E-03	1.415E-03	1.415E-03	1.415E-03	1.415E-03
SE 87	3.512E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 87	7.619E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 87	7.400E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 87	1.017E+01	1.018E+01	1.018E+01	1.018E+01	1.018E+01	1.018E+01	1.018E+01	1.018E+01	1.018E+01	1.018E+01	1.018E+01
SR 87	2.699E-05	2.702E-05	2.702E-05	2.702E-05	2.702E-05	2.702E-05	2.702E-05	2.702E-05	2.702E-05	2.702E-05	2.703E-05
SE 88	3.698E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 88	2.538E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 88	2.361E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 88	2.493E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 88	1.461E+01	1.464E+01	1.464E+01	1.464E+01	1.464E+01	1.464E+01	1.464E+01	1.464E+01	1.464E+01	1.464E+01	1.464E+01
BR 89	5.256E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 89	5.561E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 89	2.793E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 89	9.532E+00	2.723E+00	7.774E-01	2.220E-01	6.338E-02	1.238E-10	1.606E-21	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 89	9.705E+00	1.652E+01	1.846E+01	1.902E+01	1.918E+01	1.924E+01	1.924E+01	1.924E+01	1.924E+01	1.924E+01	1.924E+01
BR 90	1.257E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 90	9.494E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 90	4.655E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 90M	1.694E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 90	2.311E+01	2.297E+01	2.284E+01	2.270E+01	2.257E+01	2.052E+01	1.822E+01	1.436E+01	1.132E+01	8.919E+00	6.735E+00
Y 90	5.908E-03	5.761E-03	5.727E-03	5.693E-03	5.659E-03	5.145E-03	4.568E-03	3.600E-03	2.838E-03	2.237E-03	1.689E-03
Y 90M	2.492E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 90	1.196E-01	2.569E-01	3.932E-01	5.287E-01	6.634E-01	2.713E+00	5.016E+00	8.875E+00	1.192E+01	1.431E+01	1.650E+01
BR 91	1.595E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 91	1.933E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 91	2.163E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 91	1.335E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 91	1.302E+01	4.462E+00	1.512E+00	5.127E-01	1.738E-01	5.283E-09	2.121E-18	3.417E-37	0.000E+00	0.000E+00	0.000E+00
Y 91M	6.756E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS

PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
ZR 91	1.118E+01	1.988E+01	2.283E+01	2.383E+01	2.417E+01	2.434E+01	2.434E+01	2.434E+01	2.434E+01	2.434E+01	2.434E+01
KR 92	1.930E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 92	1.442E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 92	4.029E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 92	5.276E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 92	2.550E+01	2.559E+01	2.559E+01	2.559E+01	2.559E+01	2.559E+01	2.559E+01	2.559E+01	2.559E+01	2.559E+01	2.559E+01
KR 93	4.835E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 93	1.421E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 93	2.045E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 93	1.683E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 93	2.813E+01	2.830E+01	2.830E+01	2.830E+01	2.830E+01	2.830E+01	2.830E+01	2.830E+01	2.830E+01	2.830E+01	2.830E+01
NB 93	2.750E-07	4.816E-07	7.261E-07	1.008E-06	1.327E-06	1.110E-05	3.391E-05	1.053E-04	1.994E-04	3.071E-04	4.445E-04
NB 93M	2.130E-06	5.129E-06	8.090E-06	1.101E-05	1.390E-05	5.541E-05	9.671E-05	1.535E-04	1.877E-04	2.082E-04	2.221E-04
RB 94	3.421E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 94	3.217E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 94	5.232E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 94	2.774E+01	2.775E+01	2.775E+01	2.775E+01	2.775E+01	2.775E+01	2.775E+01	2.775E+01	2.775E+01	2.775E+01	2.775E+01
NB 94	1.205E-05	1.205E-05	1.205E-05	1.205E-05	1.205E-05	1.205E-05	1.205E-05	1.204E-05	1.204E-05	1.203E-05	1.203E-05
RB 95	2.431E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 95	1.044E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 95	3.051E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 95	1.672E+01	6.219E+00	2.312E+00	8.599E-01	3.198E-01	4.275E-08	1.093E-16	7.139E-34	0.000E+00	0.000E+00	0.000E+00
NB 95	6.097E+00	5.221E+00	2.429E+00	9.840E-01	3.792E-01	5.214E-08	1.333E-16	8.707E-34	0.000E+00	0.000E+00	0.000E+00
NB 95M	6.787E-03	2.602E-03	9.676E-04	3.598E-04	1.338E-04	1.789E-11	4.572E-20	2.987E-37	0.000E+00	0.000E+00	0.000E+00
MO 95	6.571E+00	1.796E+01	2.466E+01	2.755E+01	2.870E+01	2.940E+01	2.940E+01	2.940E+01	2.940E+01	2.940E+01	2.940E+01
SR 96	1.130E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 96	6.357E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 96	2.937E+01	2.937E+01	2.937E+01	2.937E+01	2.937E+01	2.937E+01	2.937E+01	2.937E+01	2.937E+01	2.937E+01	2.937E+01
NB 96	1.966E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 96	2.273E-02	2.293E-02	2.293E-02	2.293E-02	2.293E-02	2.293E-02	2.293E-02	2.293E-02	2.293E-02	2.293E-02	2.293E-02
SR 97	3.030E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 97	4.410E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 97	2.886E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 97	2.065E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 97M	2.698E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 97	2.803E+01	2.834E+01	2.834E+01	2.834E+01	2.834E+01	2.834E+01	2.834E+01	2.834E+01	2.834E+01	2.834E+01	2.834E+01

SR 98	5.176E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 98	8.678E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 98	1.481E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 98	1.353E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 98M	1.025E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 98	2.872E+01	2.872E+01	2.872E+01	2.872E+01	2.872E+01	2.872E+01	2.872E+01	2.872E+01	2.872E+01	2.872E+01	2.872E+01
TC 98	1.322E-05	1.322E-05	1.322E-05	1.322E-05	1.322E-05	1.322E-05	1.322E-05	1.322E-05	1.322E-05	1.322E-05	1.322E-05
Y 99	1.347E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 99	1.142E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 99	7.015E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 99M	2.408E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 99	1.204E+00	1.216E-10	1.229E-20	1.242E-30	1.254E-40	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC 99	2.852E+01	2.982E+01	2.982E+01	2.982E+01	2.982E+01	2.982E+01	2.982E+01	2.982E+01	2.982E+01	2.982E+01	2.982E+01
TC 99M	9.612E-02	1.069E-11	1.080E-21	1.091E-31	1.096E-41	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU 99	1.501E-05	3.927E-05	6.353E-05	8.779E-05	1.120E-04	5.002E-04	9.854E-04	1.956E-03	2.926E-03	3.896E-03	5.041E-03

OUTPUT UNIT = 6 PAGE 62

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
Y100	5.839E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR100	3.175E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB100	6.477E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB100M	6.504E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO100	3.184E+01	3.184E+01	3.184E+01	3.184E+01	3.184E+01	3.184E+01	3.184E+01	3.184E+01	3.184E+01	3.184E+01	3.184E+01
TC100	9.232E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU100	1.764E-01	1.764E-01	1.764E-01	1.764E-01	1.764E-01	1.764E-01	1.764E-01	1.764E-01	1.764E-01	1.764E-01	1.764E-01
Y101	2.522E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR101	9.773E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB101	3.097E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO101	4.042E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC101	3.926E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU101	2.676E+01	2.677E+01	2.677E+01	2.677E+01	2.677E+01	2.677E+01	2.677E+01	2.677E+01	2.677E+01	2.677E+01	2.677E+01
ZR102	4.677E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB102	1.081E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO102	2.756E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC102	2.187E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC102M	7.939E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

RU102	2.371E+01	2.371E+01	2.371E+01	2.371E+01	2.371E+01	2.371E+01	2.371E+01	2.371E+01	2.371E+01	2.371E+01	2.371E+01
RH102	1.377E-06	1.297E-06	1.222E-06	1.151E-06	1.084E-06	4.168E-07	1.262E-07	1.156E-08	1.059E-09	9.701E-11	5.780E-12
ZR103	9.943E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB103	3.616E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO103	2.122E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC103	1.788E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU103	8.690E+00	1.735E+00	3.464E-01	6.915E-02	1.381E-02	8.792E-14	8.894E-28	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH103	1.041E+01	1.737E+01	1.876E+01	1.904E+01	1.909E+01	1.911E+01	1.911E+01	1.911E+01	1.911E+01	1.911E+01	1.911E+01
RH103M	7.766E-03	1.552E-03	3.098E-04	6.184E-05	1.235E-05	7.863E-17	7.954E-31	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR104	4.264E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB104	9.832E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO104	2.371E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC104	2.849E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU104	1.362E+01	1.362E+01	1.362E+01	1.362E+01	1.362E+01	1.362E+01	1.362E+01	1.362E+01	1.362E+01	1.362E+01	1.362E+01
RH104	6.083E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH104M	2.712E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD104	3.442E-01	3.442E-01	3.442E-01	3.442E-01	3.442E-01	3.442E-01	3.442E-01	3.442E-01	3.442E-01	3.442E-01	3.442E-01
NB105	5.420E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO105	8.432E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC105	8.980E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU105	3.015E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH105	2.135E-01	5.497E-20	1.213E-38	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH105M	2.378E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD105	8.029E+00	8.274E+00	8.274E+00	8.274E+00	8.274E+00	8.274E+00	8.274E+00	8.274E+00	8.274E+00	8.274E+00	8.274E+00
MO106	6.431E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC106	4.030E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU106	4.966E+00	4.182E+00	3.521E+00	2.965E+00	2.497E+00	1.595E-01	5.124E-03	5.277E-06	5.467E-09	5.638E-12	1.687E-15
RH106	9.007E-06	3.931E-06	3.310E-06	2.787E-06	2.347E-06	1.499E-07	4.816E-09	4.969E-12	5.139E-15	5.302E-18	1.586E-21
RH106M	5.586E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD106	1.533E+00	2.318E+00	2.978E+00	3.535E+00	4.003E+00	6.340E+00	6.494E+00	6.500E+00	6.500E+00	6.500E+00	6.500E+00
MO107	1.498E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC107	1.509E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU107	2.035E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 63

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y

RH107	1.057E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD107	3.400E+00	3.401E+00	3.401E+00	3.401E+00	3.401E+00	3.401E+00	3.401E+00	3.401E+00	3.401E+00	3.401E+00	3.401E+00
AG107	4.998E-08	1.407E-07	2.314E-07	3.222E-07	4.129E-07	1.865E-06	3.679E-06	7.308E-06	1.094E-05	1.457E-05	1.885E-05
MO108	1.412E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC108	1.629E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU108	1.423E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH108	8.935E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH108M	1.728E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD108	2.171E+00	2.171E+00	2.171E+00	2.171E+00	2.171E+00	2.171E+00	2.171E+00	2.171E+00	2.171E+00	2.171E+00	2.171E+00
CD108	4.250E-07	4.250E-07	4.250E-07	4.250E-07	4.250E-07	4.251E-07	4.251E-07	4.251E-07	4.252E-07	4.252E-07	4.253E-07
TC109	8.596E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU109	1.185E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH109	3.141E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH109M	8.725E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD109	1.711E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD109M	4.913E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG109	1.371E+00	1.388E+00	1.388E+00	1.388E+00	1.388E+00	1.388E+00	1.388E+00	1.388E+00	1.388E+00	1.388E+00	1.388E+00
AG109M	1.398E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU110	2.638E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH110	5.060E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD110	8.137E-01	8.137E-01	8.137E-01	8.137E-01	8.137E-01	8.137E-01	8.137E-01	8.137E-01	8.137E-01	8.137E-01	8.137E-01
AG110	3.805E-07	2.217E-11	1.721E-11	1.336E-11	1.037E-11	1.802E-13	1.137E-15	4.525E-20	1.801E-24	7.169E-29	4.606E-34
AG110M	1.885E-03	1.463E-03	1.136E-03	8.817E-04	6.844E-04	1.189E-05	7.502E-08	2.986E-12	1.189E-16	4.731E-21	3.040E-26
CD110	3.880E-02	3.922E-02	3.955E-02	3.980E-02	4.000E-02	4.067E-02	4.069E-02	4.069E-02	4.069E-02	4.069E-02	4.069E-02
RU111	1.426E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH111	7.204E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD111	1.526E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD111M	2.520E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG111	7.138E-02	1.463E-05	2.990E-09	6.112E-13	1.249E-16	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG111M	7.482E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD111	4.943E-01	5.659E-01	5.659E-01	5.659E-01	5.659E-01	5.659E-01	5.659E-01	5.659E-01	5.659E-01	5.659E-01	5.659E-01
RH112	3.475E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD112	5.585E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG112	8.721E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD112	4.118E-01	4.183E-01	4.183E-01	4.183E-01	4.183E-01	4.183E-01	4.183E-01	4.183E-01	4.183E-01	4.183E-01	4.183E-01
PD113	6.149E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG113	1.175E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG113M	4.549E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD113	4.314E-02	4.431E-02	4.431E-02	4.431E-02	4.431E-02	4.431E-02	4.431E-02	4.431E-02	4.431E-02	4.431E-02	4.431E-02
CD113M	6.476E-03	6.415E-03	6.339E-03	6.264E-03	6.190E-03	5.119E-03	4.036E-03	2.510E-03	1.561E-03	9.705E-04	5.540E-04
IN113	4.790E-05	1.245E-04	2.001E-04	2.749E-04	3.488E-04	1.419E-03	2.500E-03	4.025E-03	4.974E-03	5.563E-03	5.979E-03
PD114	7.766E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG114	2.459E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

CD114	6.408E-01	6.408E-01	6.408E-01	6.408E-01	6.408E-01	6.408E-01	6.408E-01	6.408E-01	6.408E-01	6.408E-01	6.408E-01
SN114	2.127E-07	2.127E-07	2.127E-07	2.127E-07	2.127E-07	2.127E-07	2.127E-07	2.127E-07	2.127E-07	2.127E-07	2.127E-07
RH115	2.119E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD115	2.178E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG115	5.117E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG115M	2.752E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD115	1.035E-02	4.784E-15	2.200E-27	1.012E-39	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD115M	1.432E-02	3.464E-03	8.379E-04	2.027E-04	4.903E-05	6.733E-15	3.165E-27	0.000E+00	0.000E+00	0.000E+00	0.000E+00

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
IN115	2.623E-01	2.840E-01	2.866E-01	2.872E-01	2.874E-01	2.874E-01	2.874E-01	2.874E-01	2.874E-01	2.874E-01	2.874E-01
IN115M	8.344E-04	9.782E-10	2.366E-10	5.723E-11	1.384E-11	1.901E-21	8.938E-34	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN115	1.115E-02	1.157E-02	1.157E-02	1.157E-02	1.157E-02	1.157E-02	1.157E-02	1.157E-02	1.157E-02	1.157E-02	1.157E-02
PD116	6.441E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG116	4.017E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG116M	2.598E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD116	2.911E-01	2.911E-01	2.911E-01	2.911E-01	2.911E-01	2.911E-01	2.911E-01	2.911E-01	2.911E-01	2.911E-01	2.911E-01
IN116M	2.084E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN116	4.549E-02	4.551E-02	4.551E-02	4.551E-02	4.551E-02	4.551E-02	4.551E-02	4.551E-02	4.551E-02	4.551E-02	4.551E-02
PD117	2.225E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG117	1.855E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG117M	1.343E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD117	3.108E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD117M	2.201E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN117	8.085E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN117M	2.709E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN117	2.966E-01	2.975E-01	2.975E-01	2.975E-01	2.975E-01	2.975E-01	2.975E-01	2.975E-01	2.975E-01	2.975E-01	2.975E-01
SN117M	2.575E-06	2.805E-08	3.056E-10	3.330E-12	3.628E-14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG118	1.298E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD118	1.548E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN118	2.565E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN118	2.990E-01	2.992E-01	2.992E-01	2.992E-01	2.992E-01	2.992E-01	2.992E-01	2.992E-01	2.992E-01	2.992E-01	2.992E-01
AG119	2.739E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD119	1.436E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD119M	4.890E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

IN119	2.201E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN119M	4.130E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN119	2.924E-01	2.933E-01	2.939E-01	2.944E-01	2.948E-01	2.961E-01	2.961E-01	2.961E-01	2.961E-01	2.961E-01	2.961E-01
SN119M	3.654E-03	2.822E-03	2.180E-03	1.684E-03	1.300E-03	2.085E-05	1.190E-07	3.873E-12	1.261E-16	4.105E-21	2.081E-26
CD120	2.611E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN120	1.158E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN120	3.033E-01	3.033E-01	3.033E-01	3.033E-01	3.033E-01	3.033E-01	3.033E-01	3.033E-01	3.033E-01	3.033E-01	3.033E-01
CD121	6.630E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN121	1.223E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN121M	2.125E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN121	5.251E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN121M	7.678E-05	7.651E-05	7.625E-05	7.599E-05	7.572E-05	7.164E-05	6.684E-05	5.818E-05	5.064E-05	4.408E-05	3.743E-05
SB121	3.104E-01	3.157E-01	3.157E-01	3.157E-01	3.157E-01	3.157E-01	3.157E-01	3.157E-01	3.157E-01	3.157E-01	3.157E-01
CD122	2.829E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN122	5.445E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN122	3.359E-01	3.359E-01	3.359E-01	3.359E-01	3.359E-01	3.359E-01	3.359E-01	3.359E-01	3.359E-01	3.359E-01	3.359E-01
SB122	1.011E-04	6.683E-15	4.417E-25	2.920E-35	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE122	1.219E-03	1.318E-03	1.318E-03	1.318E-03	1.318E-03	1.318E-03	1.318E-03	1.318E-03	1.318E-03	1.318E-03	1.318E-03
CD123	4.210E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN123	2.695E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN123M	8.654E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN123	5.538E-02	3.393E-02	2.078E-02	1.273E-02	7.800E-03	3.070E-06	1.702E-10	5.232E-19	1.608E-27	4.943E-36	0.000E+00
SN123M	1.263E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB123	3.233E-01	3.449E-01	3.580E-01	3.661E-01	3.710E-01	3.788E-01	3.788E-01	3.788E-01	3.788E-01	3.788E-01	3.788E-01
TE123	1.519E-06	1.714E-06	1.829E-06	1.897E-06	1.937E-06	1.994E-06	1.994E-06	1.994E-06	1.994E-06	1.994E-06	1.994E-06
TE123M	4.750E-07	2.799E-07	1.649E-07	9.719E-08	5.727E-08	1.211E-11	3.085E-16	2.004E-25	1.302E-34	0.000E+00	0.000E+00

OUTPUT UNIT = 6

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
CD124	8.049E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN124	2.355E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN124	4.512E-01	4.512E-01	4.512E-01	4.512E-01	4.512E-01	4.512E-01	4.512E-01	4.512E-01	4.512E-01	4.512E-01	4.512E-01
SB124	6.308E-04	2.204E-04	7.702E-05	2.692E-05	9.405E-06	4.648E-13	3.424E-22	1.859E-40	0.000E+00	0.000E+00	0.000E+00
TE124	3.200E-04	7.304E-04	8.738E-04	9.239E-04	9.414E-04	9.508E-04	9.508E-04	9.508E-04	9.508E-04	9.508E-04	9.508E-04
IN125M	3.650E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN125	3.298E-02	4.641E-05	6.555E-08	9.225E-11	1.298E-13	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

SN125M	3.828E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB125	5.459E-01	5.441E-01	5.111E-01	4.801E-01	4.510E-01	1.657E-01	4.743E-02	3.884E-03	3.180E-04	2.604E-05	1.359E-06
TE125	1.792E-02	4.999E-02	8.233E-02	1.134E-01	1.428E-01	4.320E-01	5.519E-01	5.961E-01	5.997E-01	6.000E-01	6.000E-01
TE125M	3.188E-03	5.931E-03	6.585E-03	6.526E-03	6.245E-03	2.318E-03	6.634E-04	5.432E-05	4.448E-06	3.642E-07	1.901E-08
IN126	1.560E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN126	8.510E-01	8.510E-01	8.510E-01	8.510E-01	8.510E-01	8.510E-01	8.509E-01	8.509E-01	8.508E-01	8.508E-01	8.507E-01
SB126	2.073E-03	1.260E-05	1.166E-07	4.088E-08	4.042E-08	4.043E-08	4.043E-08	4.042E-08	4.042E-08	4.042E-08	4.042E-08
SB126M	1.245E-06	3.074E-10	3.074E-10	3.074E-10	3.074E-10	3.074E-10	3.074E-10	3.074E-10	3.073E-10	3.073E-10	3.073E-10
TE126	1.320E-02	1.526E-02	1.528E-02	1.528E-02	1.528E-02	1.530E-02	1.533E-02	1.539E-02	1.545E-02	1.551E-02	1.558E-02
IN127M	2.010E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN127	1.522E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN127M	2.288E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB127	1.031E-01	7.574E-09	5.480E-16	3.965E-23	2.869E-30	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE127	9.538E-03	3.367E-04	1.884E-04	1.054E-04	5.898E-05	5.445E-09	4.927E-14	4.034E-24	3.303E-34	0.000E+00	0.000E+00
TE127M	1.568E-01	9.617E-02	5.381E-02	3.011E-02	1.685E-02	1.555E-06	1.407E-11	1.152E-21	9.434E-32	7.652E-42	0.000E+00
I127	1.406E+00	1.581E+00	1.624E+00	1.647E+00	1.661E+00	1.678E+00	1.678E+00	1.678E+00	1.678E+00	1.678E+00	1.678E+00
IN128	3.716E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN128	1.910E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB128	1.182E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB128M	3.575E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE128	3.383E+00	3.386E+00	3.386E+00	3.386E+00	3.386E+00	3.386E+00	3.386E+00	3.386E+00	3.386E+00	3.386E+00	3.386E+00
I128	2.467E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE128	4.495E-03	4.497E-03	4.497E-03	4.497E-03	4.497E-03	4.497E-03	4.497E-03	4.497E-03	4.497E-03	4.497E-03	4.497E-03
SN129	1.539E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN129M	6.643E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB129	1.559E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE129	4.020E-03	4.637E-05	7.050E-06	1.072E-06	1.629E-07	1.325E-20	5.759E-37	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE129M	3.237E-01	4.952E-02	7.529E-03	1.145E-03	1.740E-04	1.415E-17	6.150E-34	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I129	5.357E+00	5.651E+00	5.693E+00	5.699E+00	5.700E+00	5.701E+00	5.701E+00	5.701E+00	5.701E+00	5.701E+00	5.701E+00
XE129	7.014E-06	7.075E-06	7.138E-06	7.201E-06	7.264E-06	8.271E-06	9.529E-06	1.205E-05	1.456E-05	1.708E-05	2.005E-05
SN130	2.723E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB130	7.442E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB130M	6.040E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE130	1.118E+01	1.118E+01	1.118E+01	1.118E+01	1.118E+01	1.118E+01	1.118E+01	1.118E+01	1.118E+01	1.118E+01	1.118E+01
I130	3.585E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I130M	1.690E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE130	2.593E-02	2.629E-02	2.629E-02	2.629E-02	2.629E-02	2.629E-02	2.629E-02	2.629E-02	2.629E-02	2.629E-02	2.629E-02
SN131	7.382E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB131	4.158E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE131	4.670E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE131M	5.106E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I131	2.357E+00	9.254E-04	3.529E-07	1.346E-10	5.132E-14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE131	1.724E+01	1.974E+01	1.974E+01	1.974E+01	1.974E+01	1.974E+01	1.974E+01	1.974E+01	1.974E+01	1.974E+01	1.974E+01

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XE131M     3.519E-02 5.467E-04 2.818E-06 1.385E-08 6.782E-11 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
                                                                                OUTPUT UNIT =  6                          PAGE   66
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:26

    *  PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240
                                                                                                   FISSION PRODUCTS
    POWER= 1.00000E+00 MW,  BURNUP= 1.00000E+00 MWD,  FLUX= 1.00E+00 N/CM**2-SEC

                    5 SUMMARY TABLE:  CONCENTRATIONS, GRAMS
                              PUREX 1WW SIMULANT  FROM 1 MTU FUEL @ 6% PU-240
            0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
SN132       2.807E-05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SB132       3.226E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SB132M      3.049E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
TE132       1.430E+00 5.233E-09 1.914E-17 7.003E-26 2.562E-34 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 I132       4.251E-02 1.586E-10 5.802E-19 2.122E-27 7.763E-36 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
XE132       2.883E+01 3.030E+01 3.030E+01 3.030E+01 3.030E+01 3.030E+01 3.030E+01 3.030E+01 3.030E+01 3.030E+01 3.030E+01
CS132       3.159E-05 1.795E-09 1.020E-13 5.794E-18 3.292E-22 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
BA132       2.940E-06 3.572E-06 3.572E-06 3.572E-06 3.572E-06 3.572E-06 3.572E-06 3.572E-06 3.572E-06 3.572E-06 3.572E-06
SN133       3.269E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SB133       3.511E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
TE133       3.350E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
TE133M      1.010E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 I133       5.726E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 I133M      1.663E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
XE133       3.350E+00 2.381E-05 1.369E-10 7.871E-16 4.525E-21 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
XE133M      4.371E-02 2.009E-14 5.628E-27 1.577E-39 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CS133       4.076E+01 4.474E+01 4.474E+01 4.474E+01 4.474E+01 4.474E+01 4.474E+01 4.474E+01 4.474E+01 4.474E+01 4.474E+01
SB134       4.012E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SB134M      3.603E-06 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
TE134       1.767E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 I134       2.699E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 I134M      1.433E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
XE134       5.123E+01 5.127E+01 5.127E+01 5.127E+01 5.127E+01 5.127E+01 5.127E+01 5.127E+01 5.127E+01 5.127E+01 5.127E+01
CS134       4.190E-01 3.854E-01 3.543E-01 3.257E-01 2.995E-01 7.805E-02 1.454E-02 5.041E-04 1.748E-05 6.062E-07 1.148E-08
CS134M      1.477E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
BA134       1.375E-02 4.754E-02 7.860E-02 1.072E-01 1.334E-01 3.548E-01 4.184E-01 4.324E-01 4.329E-01 4.329E-01 4.329E-01
SB135       4.139E-07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
TE135       6.933E-05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 I135       1.716E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
XE135       6.473E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
XE135M      1.289E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CS135       1.148E+01 1.172E+01 1.172E+01 1.172E+01 1.172E+01 1.172E+01 1.172E+01 1.172E+01 1.172E+01 1.172E+01 1.172E+01
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CS135M	6.397E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA135	1.411E-05	1.511E-05	1.600E-05	1.688E-05	1.776E-05	3.189E-05	4.955E-05	8.486E-05	1.202E-04	1.555E-04	1.972E-04
BA135M	1.208E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE136	4.305E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I136	2.929E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I136M	9.776E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE136	7.745E+01	7.745E+01	7.745E+01	7.745E+01	7.745E+01	7.745E+01	7.745E+01	7.745E+01	7.745E+01	7.745E+01	7.745E+01
CS136	3.921E-02	3.129E-04	2.497E-06	1.992E-08	1.590E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA136	1.163E-01	1.552E-01	1.555E-01	1.555E-01	1.555E-01	1.555E-01	1.555E-01	1.555E-01	1.555E-01	1.555E-01	1.555E-01
TE137	1.944E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I137	9.010E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE137	1.584E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS137	4.199E+01	4.175E+01	4.151E+01	4.127E+01	4.103E+01	3.741E+01	3.333E+01	2.645E+01	2.100E+01	1.666E+01	1.269E+01
BA137	1.613E-01	4.032E-01	6.436E-01	8.827E-01	1.120E+00	4.743E+00	8.824E+00	1.570E+01	2.116E+01	2.549E+01	2.947E+01
BA137M	6.508E-06	6.387E-06	6.350E-06	6.314E-06	6.277E-06	5.723E-06	5.099E-06	4.047E-06	3.212E-06	2.549E-06	1.941E-06
TE138	2.348E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I138	1.223E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE138	5.896E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS138	1.462E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
CS138M	5.372E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA138	4.574E+01	4.576E+01	4.576E+01	4.576E+01	4.576E+01	4.576E+01	4.576E+01	4.576E+01	4.576E+01	4.576E+01	4.576E+01
LA138	3.308E-04	3.308E-04	3.308E-04	3.308E-04	3.308E-04	3.308E-04	3.308E-04	3.308E-04	3.308E-04	3.308E-04	3.308E-04
I139	2.130E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE139	2.210E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS139	4.083E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA139	3.665E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA139	4.398E+01	4.402E+01	4.402E+01	4.402E+01	4.402E+01	4.402E+01	4.402E+01	4.402E+01	4.402E+01	4.402E+01	4.402E+01
I140	2.317E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE140	5.265E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS140	4.199E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA140	7.500E+00	5.319E-02	3.772E-04	2.674E-06	1.896E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA140	9.897E-01	8.021E-03	5.688E-05	4.033E-07	2.860E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE140	3.578E+01	4.421E+01	4.427E+01	4.427E+01	4.427E+01	4.427E+01	4.427E+01	4.427E+01	4.427E+01	4.427E+01	4.427E+01

XE141	2.334E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS141	1.263E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA141	7.494E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA141	9.714E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE141	1.541E+01	2.215E+00	3.161E-01	4.512E-02	6.439E-03	1.911E-16	2.353E-33	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR141	2.523E+01	3.853E+01	4.043E+01	4.070E+01	4.074E+01	4.075E+01	4.075E+01	4.075E+01	4.075E+01	4.075E+01	4.075E+01
XE142	5.980E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS142	5.477E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA142	4.278E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA142	3.780E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE142	4.063E+01	4.067E+01	4.067E+01	4.067E+01	4.067E+01	4.067E+01	4.067E+01	4.067E+01	4.067E+01	4.067E+01	4.067E+01
PR142	8.474E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR142M	2.301E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND142	3.021E-02	3.106E-02	3.106E-02	3.106E-02	3.106E-02	3.106E-02	3.106E-02	3.106E-02	3.106E-02	3.106E-02	3.106E-02
CS143	2.874E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA143	8.191E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA143	5.629E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE143	7.996E-01	8.220E-21	8.396E-41	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR143	7.190E+00	7.610E-02	7.161E-04	6.738E-06	6.341E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND143	3.170E+01	3.971E+01	3.979E+01	3.979E+01	3.979E+01	3.979E+01	3.979E+01	3.979E+01	3.979E+01	3.979E+01	3.979E+01
CS144	4.432E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA144	5.244E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA144	2.427E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE144	3.230E+01	2.585E+01	2.069E+01	1.656E+01	1.326E+01	3.760E-01	4.377E-03	5.932E-07	8.040E-11	1.090E-14	2.972E-19
PR144	1.387E-03	1.092E-03	8.737E-04	6.993E-04	5.597E-04	1.588E-05	1.848E-07	2.505E-11	3.395E-15	4.601E-19	1.255E-23
PR144M	6.840E-06	5.457E-06	4.368E-06	3.496E-06	2.798E-06	7.937E-08	9.240E-10	1.252E-13	1.697E-17	2.300E-21	6.273E-26
ND144	5.896E+00	1.234E+01	1.750E+01	2.164E+01	2.494E+01	3.782E+01	3.819E+01	3.820E+01	3.820E+01	3.820E+01	3.820E+01
BA145	1.476E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA145	1.252E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE145	8.283E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR145	9.909E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND145	2.732E+01	2.742E+01	2.742E+01	2.742E+01	2.742E+01	2.742E+01	2.742E+01	2.742E+01	2.742E+01	2.742E+01	2.742E+01
BA146	1.939E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA146	2.318E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE146	3.076E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR146	5.258E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND146	2.191E+01	2.192E+01	2.192E+01	2.192E+01	2.192E+01	2.192E+01	2.192E+01	2.192E+01	2.192E+01	2.192E+01	2.192E+01

OUTPUT UNIT = 6

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
PM146	2.665E-05	2.582E-05	2.502E-05	2.425E-05	2.349E-05	1.419E-05	7.557E-06	2.143E-06	6.077E-07	1.723E-07	3.895E-08
SM146	1.910E-06	2.216E-06	2.512E-06	2.799E-06	3.078E-06	6.520E-06	8.974E-06	1.098E-05	1.155E-05	1.171E-05	1.176E-05
BA147	4.528E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA147	1.355E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE147	1.927E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR147	2.031E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND147	2.587E+00	8.471E-03	2.771E-05	9.061E-08	2.966E-10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM147	1.229E+01	1.395E+01	1.306E+01	1.223E+01	1.145E+01	3.979E+00	1.062E+00	7.561E-02	5.384E-03	3.834E-04	1.697E-05
SM147	4.965E-01	1.419E+00	2.311E+00	3.146E+00	3.928E+00	1.140E+01	1.431E+01	1.530E+01	1.537E+01	1.538E+01	1.538E+01
BA148	2.072E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA148	6.525E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE148	8.445E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR148	2.997E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND148	1.289E+01	1.289E+01	1.289E+01	1.289E+01	1.289E+01	1.289E+01	1.289E+01	1.289E+01	1.289E+01	1.289E+01	1.289E+01
PM148	1.247E-01	1.697E-04	3.645E-05	7.872E-06	1.700E-06	3.806E-17	1.854E-30	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM148M	1.067E-01	2.304E-02	4.976E-03	1.075E-03	2.321E-04	5.196E-15	2.531E-28	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM148	8.069E-01	1.015E+00	1.033E+00	1.037E+00	1.038E+00	1.038E+00	1.038E+00	1.038E+00	1.038E+00	1.038E+00	1.038E+00
LA149	3.471E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE149	1.061E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR149	2.008E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND149	9.233E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM149	2.912E-01	1.124E-13	4.197E-26	1.567E-38	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM149	5.768E-01	8.774E-01	8.774E-01	8.774E-01	8.774E-01	8.774E-01	8.774E-01	8.774E-01	8.774E-01	8.774E-01	8.774E-01
CE150	4.591E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR150	1.112E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND150	5.574E+00	5.574E+00	5.574E+00	5.574E+00	5.574E+00	5.574E+00	5.574E+00	5.574E+00	5.574E+00	5.574E+00	5.574E+00
PM150	1.031E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM150	7.918E+00	7.918E+00	7.918E+00	7.918E+00	7.918E+00	7.918E+00	7.918E+00	7.918E+00	7.918E+00	7.918E+00	7.918E+00
CE151	1.346E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR151	1.923E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND151	5.036E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM151	6.935E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM151	2.263E+00	2.328E+00	2.324E+00	2.319E+00	2.315E+00	2.245E+00	2.160E+00	2.000E+00	1.852E+00	1.714E+00	1.565E+00
EU151	2.058E-03	6.546E-03	1.102E-02	1.550E-02	1.996E-02	9.019E-02	1.750E-01	3.351E-01	4.834E-01	6.206E-01	7.695E-01
CE152	4.255E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR152	1.730E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND152	3.134E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM152	1.140E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM152M	3.355E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

SM152	3.895E+00	3.895E+00	3.895E+00	3.895E+00	3.895E+00	3.896E+00	3.896E+00	3.896E+00	3.896E+00	3.896E+00	3.896E+00
EU152	9.892E-04	9.767E-04	9.643E-04	9.521E-04	9.400E-04	7.667E-04	5.942E-04	3.570E-04	2.144E-04	1.288E-04	7.059E-05
EU152M	5.210E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD152	2.893E-04	2.965E-04	3.000E-04	3.034E-04	3.067E-04	3.550E-04	4.031E-04	4.692E-04	5.089E-04	5.328E-04	5.490E-04
PR153	5.117E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND153	1.784E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM153	9.598E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM153	6.572E-02	4.901E-16	3.648E-30	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU153	1.701E+00	1.767E+00	1.767E+00	1.767E+00	1.767E+00	1.767E+00	1.767E+00	1.767E+00	1.767E+00	1.767E+00	1.767E+00
GD153	2.006E-05	1.544E-05	1.189E-05	9.154E-06	7.047E-06	1.073E-07	5.744E-10	1.645E-14	4.709E-19	1.348E-23	5.872E-29
ND154	4.847E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM154	2.456E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
PM154M	2.454E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM154	8.773E-01	8.773E-01	8.773E-01	8.773E-01	8.773E-01	8.773E-01	8.773E-01	8.773E-01	8.773E-01	8.773E-01	8.773E-01
EU154	1.066E-01	1.045E-01	1.024E-01	1.003E-01	9.835E-02	7.124E-02	4.761E-02	2.127E-02	9.499E-03	4.243E-03	1.639E-03
GD154	8.760E-04	3.002E-03	5.086E-03	7.129E-03	9.131E-03	3.623E-02	5.986E-02	8.621E-02	9.798E-02	1.032E-01	1.058E-01
ND155	1.183E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM155	3.160E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM155	1.276E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU155	1.791E-01	1.731E-01	1.671E-01	1.614E-01	1.559E-01	8.911E-02	4.430E-02	1.095E-02	2.706E-03	6.689E-04	1.286E-04
GD155	1.119E-03	7.274E-03	1.322E-02	1.896E-02	2.450E-02	9.124E-02	1.361E-01	1.694E-01	1.776E-01	1.797E-01	1.802E-01
ND156	8.530E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM156	5.547E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM156	1.893E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU156	1.499E-01	2.351E-03	3.640E-05	5.635E-07	8.723E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD156	4.072E-01	5.567E-01	5.590E-01	5.590E-01	5.590E-01	5.590E-01	5.590E-01	5.590E-01	5.590E-01	5.590E-01	5.590E-01
PM157	1.314E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM157	1.653E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU157	2.074E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD157	9.377E-03	1.147E-02	1.147E-02	1.147E-02	1.147E-02	1.147E-02	1.147E-02	1.147E-02	1.147E-02	1.147E-02	1.147E-02
SM158	4.618E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU158	5.161E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD158	2.457E-01	2.458E-01	2.458E-01	2.458E-01	2.458E-01	2.458E-01	2.458E-01	2.458E-01	2.458E-01	2.458E-01	2.458E-01

SM159	1.248E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU159	1.018E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD159	6.411E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB159	4.021E-02	4.086E-02	4.086E-02	4.086E-02	4.086E-02	4.086E-02	4.086E-02	4.086E-02	4.086E-02	4.086E-02	4.086E-02
SM160	1.045E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU160	2.263E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD160	1.953E-02	1.953E-02	1.953E-02	1.953E-02	1.953E-02	1.953E-02	1.953E-02	1.953E-02	1.953E-02	1.953E-02	1.953E-02
TB160	2.922E-04	1.218E-04	5.074E-05	2.114E-05	8.810E-06	7.281E-12	1.814E-19	1.127E-34	0.000E+00	0.000E+00	0.000E+00
DY160	1.006E-04	2.710E-04	3.421E-04	3.717E-04	3.840E-04	3.928E-04	3.928E-04	3.928E-04	3.928E-04	3.928E-04	3.928E-04
GD161	4.966E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB161	1.266E-03	1.350E-07	1.440E-11	1.535E-15	1.637E-19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY161	7.937E-03	9.203E-03	9.204E-03	9.204E-03	9.204E-03	9.204E-03	9.204E-03	9.204E-03	9.204E-03	9.204E-03	9.204E-03
EU162	1.889E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD162	7.279E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB162	5.380E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB162M	2.874E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY162	5.518E-03	5.520E-03	5.520E-03	5.520E-03	5.520E-03	5.520E-03	5.520E-03	5.520E-03	5.520E-03	5.520E-03	5.520E-03
TB163	6.526E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY163	2.710E-03	2.711E-03	2.711E-03	2.711E-03	2.711E-03	2.711E-03	2.711E-03	2.711E-03	2.711E-03	2.711E-03	2.711E-03
GD164	2.999E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY164	1.124E-03	1.124E-03	1.124E-03	1.124E-03	1.124E-03	1.124E-03	1.124E-03	1.124E-03	1.124E-03	1.124E-03	1.124E-03
DY165	1.960E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HO165	9.208E-04	9.228E-04	9.228E-04	9.228E-04	9.228E-04	9.228E-04	9.228E-04	9.228E-04	9.228E-04	9.228E-04	9.228E-04
DY166	2.365E-05	1.902E-13	1.530E-21	1.231E-29	9.898E-38	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HO166	8.360E-06	9.320E-14	7.496E-22	6.029E-30	4.850E-38	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HO166M	1.000E-06	9.999E-07	9.997E-07	9.996E-07	9.994E-07	9.971E-07	9.942E-07	9.885E-07	9.828E-07	9.772E-07	9.705E-07
ER166	3.742E-04	4.062E-04	4.062E-04	4.062E-04	4.062E-04	4.062E-04	4.062E-04	4.062E-04	4.062E-04	4.062E-04	4.062E-04
ER167	1.741E-04	1.741E-04	1.741E-04	1.741E-04	1.741E-04	1.741E-04	1.741E-04	1.741E-04	1.741E-04	1.741E-04	1.741E-04
ER168	2.780E-05	2.780E-05	2.780E-05	2.780E-05	2.780E-05	2.780E-05	2.780E-05	2.780E-05	2.780E-05	2.780E-05	2.780E-05
SUMTOT	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03
TOTAL	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03

OUTPUT UNIT = 6 PAGE 70

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

5 SUMMARY TABLE: CONCENTRATIONS, GRAMS
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
H	1.909E-03	1.882E-03	1.856E-03	1.830E-03	1.805E-03	1.442E-03	1.089E-03	6.212E-04	3.544E-04	2.022E-04	1.042E-04

LI	1.426E-05	1.426E-05	1.426E-05	1.426E-05	1.426E-05	1.426E-05	1.426E-05	1.426E-05	1.426E-05	1.426E-05	1.426E-05
BE	5.212E-06	5.212E-06	5.212E-06	5.212E-06	5.212E-06	5.212E-06	5.212E-06	5.212E-06	5.212E-06	5.212E-06	5.212E-06
C	9.165E-07	9.165E-07	9.164E-07	9.164E-07	9.164E-07	9.159E-07	9.154E-07	9.143E-07	9.132E-07	9.121E-07	9.108E-07
ZN	2.239E-05	1.449E-19	9.415E-34	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA	1.267E-05	6.306E-20	4.097E-34	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE	2.565E-02	2.550E-02	2.550E-02	2.550E-02	2.550E-02	2.550E-02	2.550E-02	2.550E-02	2.550E-02	2.550E-02	2.550E-02
AS	8.849E-03	7.786E-03	7.786E-03	7.786E-03	7.786E-03	7.786E-03	7.786E-03	7.786E-03	7.786E-03	7.786E-03	7.786E-03
SE	2.160E+00	2.160E+00	2.160E+00	2.160E+00	2.160E+00	2.160E+00	2.160E+00	2.160E+00	2.160E+00	2.160E+00	2.160E+00
BR	8.583E-01	8.538E-01	8.538E-01	8.538E-01	8.538E-01	8.538E-01	8.538E-01	8.538E-01	8.538E-01	8.539E-01	8.539E-01
KR	1.518E+01	1.513E+01	1.511E+01	1.510E+01	1.508E+01	1.485E+01	1.464E+01	1.438E+01	1.425E+01	1.417E+01	1.413E+01
RB	1.409E+01	1.412E+01	1.414E+01	1.415E+01	1.417E+01	1.439E+01	1.460E+01	1.487E+01	1.500E+01	1.508E+01	1.512E+01
SR	4.743E+01	4.033E+01	3.825E+01	3.756E+01	3.727E+01	3.516E+01	3.285E+01	2.899E+01	2.595E+01	2.356E+01	2.137E+01
Y	2.297E+01	2.098E+01	1.998E+01	1.954E+01	1.936E+01	1.925E+01	1.924E+01	1.924E+01	1.924E+01	1.924E+01	1.924E+01
ZR	1.390E+02	1.374E+02	1.365E+02	1.362E+02	1.362E+02	1.381E+02	1.404E+02	1.442E+02	1.473E+02	1.497E+02	1.518E+02
NB	6.125E+00	5.224E+00	2.430E+00	9.844E-01	3.794E-01	7.862E-05	1.427E-04	2.709E-04	3.991E-04	5.273E-04	6.786E-04
MO	9.640E+01	1.069E+02	1.136E+02	1.165E+02	1.176E+02	1.183E+02	1.183E+02	1.183E+02	1.183E+02	1.183E+02	1.183E+02
TC	2.862E+01	2.982E+01	2.982E+01	2.982E+01	2.982E+01	2.982E+01	2.982E+01	2.982E+01	2.982E+01	2.982E+01	2.982E+01
RU	7.795E+01	7.020E+01	6.815E+01	6.731E+01	6.679E+01	6.444E+01	6.429E+01	6.428E+01	6.428E+01	6.428E+01	6.429E+01
RH	1.063E+01	1.737E+01	1.876E+01	1.904E+01	1.909E+01	1.911E+01	1.911E+01	1.911E+01	1.911E+01	1.911E+01	1.911E+01
PD	1.631E+01	1.732E+01	1.798E+01	1.854E+01	1.901E+01	2.134E+01	2.150E+01	2.150E+01	2.150E+01	2.150E+01	2.150E+01
AG	1.446E+00	1.390E+00	1.389E+00	1.389E+00	1.389E+00	1.388E+00	1.388E+00	1.388E+00	1.388E+00	1.388E+00	1.388E+00
CD	1.952E+00	2.009E+00	2.007E+00	2.007E+00	2.007E+00	2.006E+00	2.005E+00	2.004E+00	2.003E+00	2.002E+00	2.002E+00
IN	2.636E-01	2.841E-01	2.868E-01	2.875E-01	2.877E-01	2.889E-01	2.899E-01	2.915E-01	2.924E-01	2.930E-01	2.934E-01
SN	2.988E+00	2.925E+00	2.912E+00	2.904E+00	2.899E+00	2.891E+00	2.891E+00	2.891E+00	2.891E+00	2.891E+00	2.891E+00
SB	1.309E+00	1.205E+00	1.185E+00	1.162E+00	1.138E+00	8.602E-01	7.419E-01	6.984E-01	6.948E-01	6.945E-01	6.945E-01
TE	1.661E+01	1.479E+01	1.474E+01	1.474E+01	1.475E+01	1.502E+01	1.514E+01	1.518E+01	1.519E+01	1.519E+01	1.519E+01
I	9.935E+00	7.233E+00	7.317E+00	7.347E+00	7.361E+00	7.378E+00	7.378E+00	7.378E+00	7.378E+00	7.378E+00	7.378E+00
XE	1.783E+02	1.788E+02	1.788E+02	1.788E+02	1.788E+02	1.788E+02	1.788E+02	1.788E+02	1.788E+02	1.788E+02	1.788E+02
CS	9.471E+01	9.859E+01	9.832E+01	9.805E+01	9.779E+01	9.395E+01	8.980E+01	8.291E+01	7.745E+01	7.312E+01	6.914E+01
BA	5.358E+01	4.642E+01	4.664E+01	4.691E+01	4.717E+01	5.101E+01	5.516E+01	6.205E+01	6.751E+01	7.184E+01	7.581E+01
LA	4.511E+01	4.403E+01	4.402E+01	4.402E+01	4.402E+01	4.402E+01	4.402E+01	4.402E+01	4.402E+01	4.402E+01	4.402E+01
CE	1.249E+02	1.129E+02	1.060E+02	1.015E+02	9.820E+01	8.532E+01	8.495E+01	8.494E+01	8.494E+01	8.494E+01	8.494E+01
PR	3.253E+01	3.861E+01	4.043E+01	4.070E+01	4.074E+01	4.075E+01	4.075E+01	4.075E+01	4.075E+01	4.075E+01	4.075E+01
ND	1.079E+02	1.199E+02	1.251E+02	1.293E+02	1.326E+02	1.454E+02	1.458E+02	1.458E+02	1.458E+02	1.458E+02	1.458E+02
PM	1.288E+01	1.397E+01	1.307E+01	1.223E+01	1.145E+01	3.979E+00	1.062E+00	7.561E-02	5.384E-03	3.836E-04	1.701E-05
SM	1.690E+01	1.833E+01	1.924E+01	2.007E+01	2.085E+01	2.825E+01	3.108E+01	3.191E+01	3.183E+01	3.170E+01	3.155E+01
EU	2.142E+00	2.054E+00	2.048E+00	2.045E+00	2.042E+00	2.018E+00	2.034E+00	2.135E+00	2.263E+00	2.393E+00	2.538E+00
GD	6.848E-01	8.441E-01	8.544E-01	8.622E-01	8.698E-01	9.637E-01	1.032E+00	1.092E+00	1.112E+00	1.119E+00	1.122E+00
TB	4.177E-02	4.098E-02	4.091E-02	4.088E-02	4.087E-02	4.086E-02	4.086E-02	4.086E-02	4.086E-02	4.086E-02	4.086E-02
DY	1.742E-02	1.883E-02	1.890E-02	1.893E-02	1.894E-02	1.895E-02	1.895E-02	1.895E-02	1.895E-02	1.895E-02	1.895E-02
HO	9.302E-04	9.238E-04	9.238E-04	9.238E-04	9.238E-04	9.238E-04	9.238E-04	9.238E-04	9.238E-04	9.238E-04	9.238E-04
ER	5.761E-04	6.081E-04	6.081E-04	6.081E-04	6.081E-04	6.081E-04	6.081E-04	6.081E-04	6.081E-04	6.081E-04	6.081E-04
SUMTOT	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03	1.182E+03

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TOTAL       1.182E+03 1.182E+03 1.182E+03 1.182E+03 1.182E+03 1.182E+03 1.182E+03 1.182E+03 1.182E+03 1.182E+03 1.182E+03

                                   CUMULATIVE TABLE TOTALS

AP+FP       7.687E+04 7.687E+04 7.687E+04 7.687E+04 7.687E+04 7.687E+04 7.687E+04 7.687E+04 7.687E+04 7.687E+04 7.687E+04
ACT+FP      1.000E+06 1.000E+06 2.181E+03 2.181E+03 2.181E+03 2.181E+03 2.181E+03 2.181E+03 2.181E+03 2.181E+03 2.181E+03
AP+ACT+FP   1.076E+06 1.076E+06 7.787E+04 7.787E+04 7.787E+04 7.787E+04 7.787E+04 7.787E+04 7.787E+04 7.787E+04 7.787E+04
                                                                                  OUTPUT UNIT =  6                      PAGE   71
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:26

    *  PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240
                                                                                                   FISSION PRODUCTS
    POWER= 1.00000E+00 MW,  BURNUP= 1.00000E+00 MWD,  FLUX= 1.00E+00 N/CM**2-SEC

                    7 SUMMARY TABLE:  RADIOACTIVITY,  CURIES
                              PUREX 1WW SIMULANT  FROM 1 MTU FUEL @ 6% PU-240
            0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
 H  3       1.843E+01 1.817E+01 1.792E+01 1.767E+01 1.742E+01 1.392E+01 1.051E+01 5.998E+00 3.421E+00 1.952E+00 1.006E+00
 C 14       4.087E-06 4.087E-06 4.086E-06 4.086E-06 4.086E-06 4.084E-06 4.082E-06 4.077E-06 4.072E-06 4.067E-06 4.061E-06
CO 72       5.569E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
NI 72       1.043E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CU 72       1.882E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
ZN 72       2.088E+01 1.357E-13 8.816E-28 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
GA 72       2.092E+01 1.947E-13 1.265E-27 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CO 73       1.743E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
NI 73       8.719E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CU 73       2.804E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
ZN 73       4.417E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
GA 73       4.554E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
GE 73M      4.557E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CO 74       3.636E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
NI 74       5.912E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CU 74       4.112E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
ZN 74       8.792E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
GA 74       9.170E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
NI 75       2.396E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CU 75       4.207E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
ZN 75       1.712E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
GA 75       1.954E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
GE 75       1.965E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
GE 75M      8.383E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
NI 76       6.385E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
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CU 76	3.386E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 76	3.286E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 76	4.612E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 76	7.066E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 77	1.065E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 77	1.560E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 77	3.766E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 77	8.663E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 77	3.520E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 77M	8.231E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 77	1.004E+03	1.149E-14	1.148E-31	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 77M	2.494E+00	2.849E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 78	1.225E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 78	5.648E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 78	3.961E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 78	1.619E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 78	2.035E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 78	2.072E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 79	1.422E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 79	2.272E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 79	1.742E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 79	4.406E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 79	5.223E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 79	1.523E-02	1.523E-02	1.523E-02	1.523E-02	1.523E-02	1.523E-02	1.523E-02	1.523E-02	1.522E-02	1.522E-02	1.522E-02	
SE 79M	5.225E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 80	1.552E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 72

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
ZN 80	8.771E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 80	1.962E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 80	9.746E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 80	1.156E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 80	1.539E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 80M	9.506E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 81	1.104E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

ZN 81	1.904E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 81	1.142E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 81	1.263E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 81	1.879E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 81	1.978E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 81M	5.711E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 82	2.357E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 82	4.106E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 82	1.167E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 82	1.873E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 82M	7.032E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 82	1.674E+02	3.456E-17	7.093E-36	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 82M	5.778E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 83	2.147E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 83	1.111E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 83	8.624E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 83	3.501E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 83	1.797E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 83M	2.883E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 83	4.737E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 83M	4.737E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 84	1.201E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 84	2.318E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 84	2.764E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 84	8.394E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 84	8.591E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 84M	2.092E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 85	6.537E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 85	1.741E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 85	5.161E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 85M	3.735E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 85	1.048E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 85	4.113E+02	4.058E+02	3.993E+02	3.929E+02	3.866E+02	2.985E+02	2.160E+02	1.132E+02	5.928E+01	3.105E+01	1.448E+01
KR 85M	1.059E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 86	1.228E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 86	9.570E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 86	1.056E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 86	7.769E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 86M	7.825E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 86	4.009E+01	1.348E+00	4.534E-02	1.525E-03	5.127E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 86M	1.565E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 87	1.818E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 87	5.111E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

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SE 87      8.136E+04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
                                                                                OUTPUT UNIT =  6                          PAGE   73
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:26

    *  PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240
                                                                                                   FISSION PRODUCTS
    POWER= 1.00000E+00 MW,  BURNUP= 1.00000E+00 MWD,  FLUX= 1.00E+00 N/CM**2-SEC

                    7 SUMMARY TABLE:  RADIOACTIVITY,  CURIES
                              PUREX 1WW SIMULANT  FROM 1 MTU FUEL @ 6% PU-240
            0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
BR 87       1.771E+05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
KR 87       2.097E+05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
RB 87       8.903E-07 8.909E-07 8.909E-07 8.909E-07 8.909E-07 8.909E-07 8.909E-07 8.909E-07 8.909E-07 8.909E-07 8.909E-07
SR 87M      3.537E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
GE 88       5.432E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
AS 88       3.259E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SE 88       3.162E+04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
BR 88       1.997E+05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
KR 88       2.963E+05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
RB 88       2.994E+05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
AS 89       3.253E+01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SE 89       8.991E+03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
BR 89       1.481E+05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
KR 89       3.708E+05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
RB 89       3.884E+05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SR 89       2.771E+05 7.914E+04 2.260E+04 6.452E+03 1.842E+03 3.597E-06 4.669E-17 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 Y 89M      9.025E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SE 90       2.936E+03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
BR 90       9.852E+04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
KR 90       3.684E+05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
RB 90       3.815E+05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
RB 90M      8.234E+04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SR 90       3.154E+03 3.135E+03 3.116E+03 3.098E+03 3.079E+03 2.800E+03 2.486E+03 1.959E+03 1.544E+03 1.217E+03 9.191E+02
 Y 90       3.216E+03 3.136E+03 3.117E+03 3.099E+03 3.080E+03 2.801E+03 2.486E+03 1.960E+03 1.545E+03 1.217E+03 9.193E+02
 Y 90M      2.800E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SE 91       3.883E+02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
BR 91       3.297E+04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
KR 91       2.756E+05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
RB 91       4.609E+05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SR 91       4.841E+05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
 Y 91       3.195E+05 1.095E+05 3.711E+04 1.258E+04 4.264E+03 1.296E-04 5.203E-14 8.383E-33 0.000E+00 0.000E+00 0.000E+00
 Y 91M      2.809E+05 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
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SE 92	1.665E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 92	2.708E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 92	1.287E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 92	3.949E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 92	5.066E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 92	5.081E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 93	5.366E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 93	4.620E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 93	2.973E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 93	5.515E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 93	5.617E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 93	7.071E-02	7.114E-02	7.114E-02	7.114E-02	7.114E-02	7.114E-02	7.114E-02	7.114E-02	7.114E-02	7.114E-02	7.114E-02
NB 93M	6.023E-04	1.450E-03	2.287E-03	3.114E-03	3.930E-03	1.567E-02	2.735E-02	4.341E-02	5.306E-02	5.886E-02	6.280E-02
BR 94	4.315E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 94	1.865E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 94	1.527E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 94	5.109E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 94	5.482E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 94	2.259E-06	2.259E-06	2.259E-06	2.259E-06	2.259E-06	2.258E-06	2.258E-06	2.257E-06	2.256E-06	2.256E-06	2.255E-06

OUTPUT UNIT = 6 PAGE 74

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES

PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
NB 94M	1.903E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 95	2.972E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 95	1.848E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 95	8.023E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 95	4.770E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 95	5.754E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 95	3.593E+05	1.336E+05	4.970E+04	1.848E+04	6.872E+03	9.187E-04	2.348E-12	1.534E-29	0.000E+00	0.000E+00	0.000E+00
NB 95	2.385E+05	2.042E+05	9.504E+04	3.849E+04	1.484E+04	2.040E-03	5.213E-12	3.406E-29	0.000E+00	0.000E+00	0.000E+00
NB 95M	2.586E+03	9.915E+02	3.687E+02	1.371E+02	5.098E+01	6.815E-06	1.742E-14	1.138E-31	0.000E+00	0.000E+00	0.000E+00
BR 96	1.588E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 96	2.971E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 96	2.114E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 96	3.321E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 96	5.416E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

NB 96	2.750E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 97	1.569E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 97	3.990E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 97	1.763E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 97	4.623E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 97	5.519E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 97	5.554E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 97M	5.232E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 98	1.914E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 98	8.580E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 98	7.013E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 98	3.331E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 98	5.502E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 98	5.565E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 98M	3.820E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 99	8.207E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 99	1.867E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 99	1.920E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 99	5.425E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 99	5.593E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 99M	1.760E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 99	5.777E+05	5.837E-05	5.897E-15	5.957E-25	6.017E-35	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC 99	4.837E-01	5.058E-01	5.058E-01	5.058E-01	5.057E-01	5.057E-01	5.057E-01	5.057E-01	5.057E-01	5.057E-01	5.057E-01
TC 99M	5.057E+05	5.623E-05	5.681E-15	5.739E-25	5.766E-35	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB100	6.810E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR100	3.539E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y100	8.714E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR100	5.047E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB100	3.046E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB100M	3.046E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC100	6.595E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR101	5.031E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y101	2.887E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR101	3.309E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB101	4.944E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO101	5.149E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC101	5.149E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
SR102	4.397E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y102	6.722E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR102	1.808E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB102	3.987E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO102	4.579E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC102	4.583E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC102M	3.366E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH102	1.665E-03	1.568E-03	1.477E-03	1.392E-03	1.311E-03	5.039E-04	1.525E-04	1.397E-05	1.280E-06	1.173E-07	6.988E-09
SR103	1.357E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y103	8.787E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR103	6.156E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB103	2.529E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO103	3.875E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC103	3.919E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU103	2.806E+05	5.601E+04	1.118E+04	2.233E+03	4.457E+02	2.838E-09	2.872E-23	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH103M	2.527E+05	5.050E+04	1.008E+04	2.013E+03	4.018E+02	2.559E-09	2.589E-23	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR104	4.965E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y104	6.644E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR104	1.223E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB104	1.067E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO104	2.680E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC104	2.831E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH104	1.561E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH104M	1.130E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y105	3.727E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR105	1.612E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB105	3.237E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO105	1.678E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC105	2.011E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU105	2.028E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH105	1.803E+05	4.642E-14	1.024E-32	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RHI05M	5.680E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR106	2.399E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB106	8.815E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO106	7.608E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC106	1.160E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU106	1.662E+04	1.400E+04	1.179E+04	9.925E+03	8.357E+03	5.339E+02	1.715E+01	1.766E-02	1.830E-05	1.887E-08	5.648E-12
RH106	3.207E+04	1.400E+04	1.179E+04	9.925E+03	8.357E+03	5.339E+02	1.715E+01	1.770E-02	1.830E-05	1.888E-08	5.648E-12
RH106M	7.510E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

ZR107	1.158E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB107	1.306E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO107	2.472E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC107	5.489E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU107	8.518E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH107	8.563E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD107	1.749E-03	1.750E-03	1.750E-03	1.750E-03	1.750E-03	1.750E-03	1.750E-03	1.750E-03	1.750E-03	1.750E-03	1.750E-03
PD107M	6.161E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR108	3.359E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB108	4.181E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO108	9.837E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC108	3.274E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 76

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
RU108	5.508E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH108	5.558E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH108M	5.101E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG108	1.801E-02	2.881E-08	2.877E-08	2.873E-08	2.869E-08	2.807E-08	2.731E-08	2.586E-08	2.449E-08	2.319E-08	2.174E-08
ZR109	2.414E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB109	8.038E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO109	3.688E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC109	1.745E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU109	3.506E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH109	3.614E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH109M	1.807E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD109	3.656E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD109M	1.808E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG109M	3.655E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB110	9.559E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO110	9.713E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC110	5.789E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU110	1.692E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH110	1.790E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH110M	9.891E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG110	1.587E+03	9.249E-02	7.179E-02	5.573E-02	4.326E-02	7.517E-04	4.742E-06	1.887E-10	7.512E-15	2.990E-19	1.921E-24

AG110M	8.958E+00	6.954E+00	5.398E+00	4.190E+00	3.253E+00	5.652E-02	3.565E-04	1.419E-08	5.648E-13	2.248E-17	1.445E-22
NB111	8.149E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO111	2.134E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC111	2.500E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU111	9.403E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH111	1.163E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD111	1.175E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD111M	1.294E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG111	1.128E+04	2.311E+00	4.724E-04	9.655E-08	1.973E-11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG111M	1.170E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD111M	1.727E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO112	3.954E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC112	9.720E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU112	5.439E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH112	7.451E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD112	7.778E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG112	7.798E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO113	2.813E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC113	2.659E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU113	3.445E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH113	6.057E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD113	6.824E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG113	6.151E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG113M	6.884E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD113M	1.405E+00	1.392E+00	1.375E+00	1.359E+00	1.343E+00	1.110E+00	8.757E-01	5.445E-01	3.386E-01	2.105E-01	1.202E-01
MO114	2.887E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC114	6.132E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU114	1.749E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH114	4.117E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD114	5.339E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 77

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
AG114	5.386E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN114	1.065E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO115	1.934E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

TC115	1.299E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU115	8.532E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH115	3.453E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD115	5.625E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG115	4.185E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG115M	1.589E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD115	5.277E+03	2.439E-09	1.122E-21	5.157E-34	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD115M	3.648E+02	8.824E+01	2.134E+01	5.163E+00	1.249E+00	1.715E-10	8.063E-23	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN115M	5.290E+03	6.202E-03	1.500E-03	3.628E-04	8.777E-05	1.205E-14	5.667E-27	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC116	8.064E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU116	1.924E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH116	1.705E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD116	4.476E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG116	2.431E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG116M	2.431E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN116	7.915E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN116M	6.241E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC117	3.460E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU117	3.006E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH117	1.137E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD117	4.293E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG117	2.445E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG117M	2.444E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD117	3.203E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD117M	1.735E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN117	2.954E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN117M	3.742E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN117M	2.053E-01	2.237E-03	2.437E-05	2.655E-07	2.892E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU118	1.900E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH118	1.479E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD118	3.530E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG118	3.355E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG118M	2.231E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD118	4.906E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN118	4.907E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN118M	1.182E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH119	9.588E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD119	2.217E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG119	4.330E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD119	2.415E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD119M	2.416E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN119	1.392E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN119M	3.627E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

SN119M	1.637E+01	1.265E+01	9.766E+00	7.543E+00	5.826E+00	9.341E-02	5.330E-04	1.735E-08	5.649E-13	1.839E-17	9.322E-23
RU120	3.955E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH120	1.787E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD120	1.001E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG120	3.304E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
CD120	4.834E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN120	2.453E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN120M	2.452E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH121	2.824E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD121	3.937E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG121	2.355E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD121	4.831E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN121	4.074E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN121M	1.001E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN121	5.077E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN121M	4.541E-03	4.526E-03	4.510E-03	4.494E-03	4.479E-03	4.237E-03	3.953E-03	3.441E-03	2.996E-03	2.608E-03	2.214E-03
RH122	3.426E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD122	1.214E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG122	1.482E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD122	4.759E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN122	5.037E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN122M	2.798E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB122	4.009E+01	2.650E-09	1.752E-19	1.158E-29	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB122M	3.700E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH123	2.944E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD123	2.777E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG123	7.863E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD123	4.597E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN123	4.142E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN123M	1.654E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN123	4.553E+02	2.790E+02	1.709E+02	1.047E+02	6.414E+01	2.524E-02	1.400E-06	4.302E-15	1.322E-23	4.064E-32	0.000E+00
SN123M	4.819E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE123M	4.215E-03	2.484E-03	1.464E-03	8.625E-04	5.083E-04	1.074E-07	2.738E-12	1.778E-21	1.155E-30	0.000E+00	0.000E+00

PD124	5.056E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG124	3.522E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD124	4.267E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN124	6.699E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB124	1.104E+01	3.858E+00	1.348E+00	4.710E-01	1.646E-01	8.134E-09	5.993E-18	3.254E-36	0.000E+00	0.000E+00	0.000E+00
SB124M	1.469E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG125	1.036E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD125	2.837E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN125	3.863E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN125M	2.746E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN125	3.575E+03	5.031E+00	7.106E-03	1.000E-05	1.407E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN125M	6.051E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB125	5.639E+02	5.620E+02	5.280E+02	4.959E+02	4.659E+02	1.712E+02	4.899E+01	4.012E+00	3.285E-01	2.690E-02	1.404E-03
TE125M	5.744E+01	1.069E+02	1.187E+02	1.176E+02	1.125E+02	4.177E+01	1.195E+01	9.788E-01	8.015E-02	6.563E-03	3.425E-04
PD126	6.941E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG126	3.134E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD126	2.178E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN126	9.133E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN126	2.415E-02	2.415E-02	2.415E-02	2.415E-02	2.415E-02	2.415E-02	2.415E-02	2.415E-02	2.415E-02	2.415E-02	2.414E-02
SB126	1.734E+02	1.054E+00	9.749E-03	3.419E-03	3.381E-03	3.381E-03	3.381E-03	3.381E-03	3.381E-03	3.381E-03	3.380E-03
SB126M	9.783E+01	2.415E-02	2.415E-02	2.415E-02	2.415E-02	2.415E-02	2.415E-02	2.415E-02	2.415E-02	2.415E-02	2.414E-02
CD127	1.048E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN127	4.901E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 79

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
IN127M	4.907E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN127	1.789E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN127M	8.199E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB127	2.755E+04	2.024E-03	1.464E-10	1.059E-17	7.665E-25	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE127	2.518E+04	8.889E+02	4.974E+02	2.783E+02	1.557E+02	1.437E-02	1.301E-07	1.065E-17	8.720E-28	0.000E+00	0.000E+00
TE127M	1.480E+03	9.075E+02	5.078E+02	2.841E+02	1.590E+02	1.468E-02	1.328E-07	1.087E-17	8.902E-28	7.221E-38	0.000E+00
AG128	1.131E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD128	4.088E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN128	8.856E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN128	4.758E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

SB128	3.213E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB128M	5.052E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I128	1.451E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD129	1.743E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN129	7.040E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN129	2.992E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN129M	3.875E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB129	8.772E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE129	8.422E+04	9.716E+02	1.477E+02	2.245E+01	3.413E+00	2.777E-13	1.207E-29	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE129M	9.756E+03	1.493E+03	2.269E+02	3.449E+01	5.244E+00	4.266E-13	1.854E-29	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I129	9.461E-04	9.980E-04	1.005E-03	1.007E-03	1.007E-03	1.007E-03	1.007E-03	1.007E-03	1.007E-03	1.007E-03	1.007E-03
CD130	1.942E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN130	9.188E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN130	1.059E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB130	2.692E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB130M	1.387E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I130	6.994E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I130M	2.717E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD131	3.053E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN131	3.423E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN131	1.010E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB131	2.596E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE131	2.682E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE131M	4.073E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I131	2.923E+05	1.148E+02	4.377E-02	1.669E-05	6.365E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE131M	2.949E+03	4.582E+01	2.362E-01	1.161E-03	5.684E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD132	2.832E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN132	9.548E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN132	6.000E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB132	1.642E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB132M	1.035E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE132	4.344E+05	1.590E-03	5.815E-12	2.127E-20	7.781E-29	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I132	4.390E+05	1.638E-03	5.991E-12	2.192E-20	8.017E-29	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS132	4.829E+00	2.743E-04	1.559E-08	8.856E-13	5.032E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN133	1.010E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN133	1.887E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB133	2.069E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE133	3.806E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE133M	2.579E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I133	6.489E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I133M	1.568E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
XE133	6.273E+05	4.459E+00	2.564E-05	1.474E-10	8.474E-16	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE133M	1.961E+04	9.009E-09	2.524E-21	7.072E-34	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN134	5.467E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN134	2.355E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB134	3.072E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB134M	2.836E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE134	5.934E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I134	7.203E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I134M	5.437E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE134M	3.424E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS134	5.424E+02	4.988E+02	4.586E+02	4.216E+02	3.877E+02	1.010E+02	1.882E+01	6.525E-01	2.263E-02	7.847E-04	1.486E-05
CS134M	1.192E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN135	2.813E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB135	2.036E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE135	3.019E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I135	6.028E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE135	1.654E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE135M	1.175E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS135	1.322E-02	1.350E-02	1.350E-02	1.350E-02	1.350E-02	1.350E-02	1.350E-02	1.350E-02	1.350E-02	1.350E-02	1.350E-02
CS135M	1.682E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA135M	9.777E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN136	2.385E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB136	3.879E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE136	1.701E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I136	2.929E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I136M	1.764E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS136	2.875E+03	2.294E+01	1.831E-01	1.461E-03	1.166E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA136M	4.737E+02	3.780E+00	3.017E-02	2.407E-04	1.921E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB137	5.395E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE137	4.576E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I137	3.017E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE137	5.679E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS137	3.654E+03	3.633E+03	3.612E+03	3.591E+03	3.571E+03	3.255E+03	2.900E+03	2.302E+03	1.827E+03	1.450E+03	1.104E+03
BA137M	3.502E+03	3.437E+03	3.417E+03	3.397E+03	3.378E+03	3.080E+03	2.744E+03	2.178E+03	1.728E+03	1.372E+03	1.044E+03
SB138	6.623E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

TE138	1.171E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I138	1.563E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE138	5.672E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS138	6.189E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS138M	2.525E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB139	4.851E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE139	2.254E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I139	7.206E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE139	4.543E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS139	5.878E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA139	5.997E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE140	2.767E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I140	2.172E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE140	3.121E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS140	5.306E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA140	5.472E+05	3.880E+03	2.752E+01	1.951E-01	1.384E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
LA140	5.510E+05	4.466E+03	3.167E+01	2.246E-01	1.592E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR140	2.974E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE141	1.236E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I141	3.576E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE141	1.086E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS141	4.044E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA141	5.473E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA141	5.495E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE141	4.391E+05	6.311E+04	9.007E+03	1.286E+03	1.835E+02	5.445E-12	6.706E-29	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE142	1.240E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I142	4.672E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE142	3.896E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS142	2.561E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA142	5.296E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA142	5.402E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE142	9.753E-07	9.764E-07	9.764E-07	9.764E-07	9.764E-07	9.764E-07	9.764E-07	9.764E-07	9.764E-07	9.764E-07	9.764E-07
PR142	9.780E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PR142M	2.088E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I143	2.904E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE143	6.133E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS143	1.334E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA143	4.754E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA143	5.289E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE143	5.312E+05	5.461E-15	5.578E-35	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR143	4.842E+05	5.125E+03	4.822E+01	4.538E-01	4.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I144	2.333E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE144	1.068E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS144	3.406E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA144	3.737E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA144	4.756E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE144	1.031E+05	8.250E+04	6.604E+04	5.285E+04	4.230E+04	1.200E+03	1.397E+01	1.893E-03	2.566E-07	3.477E-11	9.484E-16
PR144	1.048E+05	8.251E+04	6.604E+04	5.286E+04	4.230E+04	1.200E+03	1.397E+01	1.893E-03	2.566E-07	3.477E-11	9.484E-16
PR144M	1.241E+03	9.901E+02	7.924E+02	6.343E+02	5.077E+02	1.440E+01	1.676E-01	2.272E-05	3.079E-09	4.173E-13	1.138E-17
XE145	1.027E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS145	8.612E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA145	1.853E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA145	3.360E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE145	3.582E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR145	3.582E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE146	7.050E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS146	1.242E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA146	6.813E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA146	2.159E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE146	2.791E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR146	2.799E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM146	1.187E-02	1.150E-02	1.114E-02	1.080E-02	1.046E-02	6.321E-03	3.366E-03	9.545E-04	2.707E-04	7.676E-05	1.735E-05
XE147	6.188E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS147	2.048E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA147	1.561E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA147	1.040E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE147	2.114E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 82

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1NW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PUREX 1NW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
PR147	2.166E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND147	2.079E+05	6.806E+02	2.226E+00	7.280E-03	2.383E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM147	1.140E+04	1.294E+04	1.212E+04	1.134E+04	1.062E+04	3.690E+03	9.846E+02	7.012E+01	4.993E+00	3.556E-01	1.574E-02
CS148	1.305E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA148	2.678E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA148	3.828E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE148	1.498E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR148	1.656E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM148	2.049E+04	2.790E+01	5.991E+00	1.294E+00	2.794E-01	6.255E-12	3.046E-25	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM148M	2.281E+03	4.925E+02	1.064E+02	2.297E+01	4.961E+00	1.111E-10	5.409E-24	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA149	2.949E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA149	9.180E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE149	8.037E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR149	1.102E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND149	1.123E+05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM149	1.154E+05	4.455E-08	1.664E-20	6.213E-33	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS150	1.215E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA150	2.200E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA150	1.704E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE150	3.454E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR150	6.748E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM150	8.041E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA151	2.164E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE151	1.006E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR151	3.593E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND151	5.059E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM151	5.072E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM151	5.956E+01	6.128E+01	6.116E+01	6.104E+01	6.093E+01	5.908E+01	5.685E+01	5.263E+01	4.873E+01	4.512E+01	4.120E+01
BA152	5.902E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA152	2.506E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE152	2.252E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR152	1.544E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND152	3.373E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM152	3.441E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM152M	5.536E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU152	1.711E-01	1.690E-01	1.668E-01	1.647E-01	1.626E-01	1.326E-01	1.028E-01	6.175E-02	3.710E-02	2.228E-02	1.221E-02
EU152M	1.153E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA153	2.665E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE153	4.103E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR153	4.875E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND153	1.949E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM153	2.185E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

SM153	2.884E+04	2.151E-10	1.601E-24	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD153	7.077E-02	5.448E-02	4.195E-02	3.229E-02	2.486E-02	3.787E-04	2.027E-06	5.802E-11	1.661E-15	4.756E-20	2.071E-25
LA154	1.240E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE154	4.812E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR154	1.102E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND154	8.881E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM154	1.071E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM154M	1.665E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU154	2.879E+01	2.821E+01	2.765E+01	2.710E+01	2.656E+01	1.924E+01	1.286E+01	5.743E+00	2.565E+00	1.146E+00	4.426E-01

OUTPUT UNIT = 6

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
CE155	5.748E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR155	2.250E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND155	3.306E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM155	6.294E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM155	6.975E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU155	8.333E+01	8.053E+01	7.776E+01	7.509E+01	7.251E+01	4.146E+01	2.061E+01	5.094E+00	1.259E+00	3.112E-01	5.981E-02
CE156	5.502E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR156	4.153E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND156	1.055E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM156	3.064E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM156	4.047E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU156	8.266E+03	1.296E+02	2.007E+00	3.107E-02	4.811E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE157	4.422E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR157	7.053E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND157	2.996E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM157	1.389E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM157	2.476E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU157	2.725E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR158	5.573E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND158	4.661E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM158	4.212E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM158	1.250E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU158	1.339E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR159	2.276E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

ND159	5.112E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM159	9.364E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM159	5.462E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU159	6.654E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD159	6.796E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND160	4.936E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM160	1.871E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM160	2.112E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU160	3.130E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB160	3.300E+00	1.375E+00	5.729E-01	2.387E-01	9.948E-02	8.222E-08	2.049E-15	1.272E-30	0.000E+00	0.000E+00	0.000E+00
ND161	3.933E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM161	2.405E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM161	5.884E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU161	1.369E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD161	1.568E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB161	1.484E+02	1.583E-02	1.688E-06	1.800E-10	1.919E-14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM162	1.386E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM162	1.034E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU162	4.878E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD162	8.452E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB162	8.363E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB162M	2.494E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM163	1.383E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU163	1.295E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD163	3.608E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB163	3.862E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM164	1.409E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 84

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
EU164	3.077E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD164	1.586E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB164	1.907E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM165	9.603E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU165	5.552E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD165	6.002E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

TB165	9.052E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY165	1.585E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY165M	7.525E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
DY166	5.481E+00	4.408E-08	3.546E-16	2.852E-24	2.294E-32	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HO166	5.891E+00	6.568E-08	5.283E-16	4.249E-24	3.418E-32	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HO166M	1.795E-06	1.795E-06	1.795E-06	1.795E-06	1.794E-06	1.790E-06	1.785E-06	1.775E-06	1.765E-06	1.754E-06	1.742E-06
ER167M	1.462E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SUMTOT	5.364E+07	9.388E+05	4.204E+05	2.348E+05	1.564E+05	1.986E+04	1.206E+04	8.658E+03	6.766E+03	5.337E+03	4.045E+03
TOTAL	5.364E+07	9.388E+05	4.204E+05	2.348E+05	1.564E+05	1.986E+04	1.206E+04	8.658E+03	6.766E+03	5.337E+03	4.045E+03

OUTPUT UNIT = 6

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

7 SUMMARY TABLE: RADIOACTIVITY, CURIES
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
H	1.843E+01	1.817E+01	1.792E+01	1.767E+01	1.742E+01	1.392E+01	1.051E+01	5.998E+00	3.421E+00	1.952E+00	1.006E+00
C	4.087E-06	4.087E-06	4.086E-06	4.086E-06	4.086E-06	4.084E-06	4.082E-06	4.077E-06	4.072E-06	4.067E-06	4.061E-06
CO	7.675E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI	2.822E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU	1.867E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN	1.762E+03	1.357E-13	8.816E-28	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA	8.679E+03	1.947E-13	1.265E-27	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE	5.365E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS	1.595E+05	1.149E-14	1.148E-31	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE	4.762E+05	1.523E-02	1.523E-02	1.523E-02	1.523E-02	1.523E-02	1.523E-02	1.523E-02	1.522E-02	1.522E-02	1.522E-02
BR	1.056E+06	3.456E-17	7.093E-36	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR	1.870E+06	4.058E+02	3.993E+02	3.929E+02	3.866E+02	2.985E+02	2.160E+02	1.132E+02	5.928E+01	3.105E+01	1.448E+01
RB	2.564E+06	1.348E+00	4.534E-02	1.525E-03	5.216E-05	8.909E-07	8.909E-07	8.909E-07	8.909E-07	8.909E-07	8.909E-07
SR	3.412E+06	8.227E+04	2.571E+04	9.550E+03	4.922E+03	2.800E+03	2.486E+03	1.959E+03	1.544E+03	1.217E+03	9.191E+02
Y	4.450E+06	1.126E+05	4.022E+04	1.568E+04	7.344E+03	2.801E+03	2.486E+03	1.960E+03	1.545E+03	1.217E+03	9.193E+02
ZR	3.096E+06	1.336E+05	4.970E+04	1.848E+04	6.872E+03	7.206E-02	7.114E-02	7.114E-02	7.114E-02	7.114E-02	7.114E-02
NB	4.362E+06	2.052E+05	9.541E+04	3.863E+04	1.489E+04	1.772E-02	2.735E-02	4.341E-02	5.306E-02	5.886E-02	6.280E-02
MO	2.489E+06	5.837E-05	5.897E-15	5.957E-25	6.017E-35	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC	2.593E+06	5.058E-01	5.058E-01	5.058E-01	5.057E-01	5.057E-01	5.057E-01	5.057E-01	5.057E-01	5.057E-01	5.057E-01
RU	7.135E+05	7.001E+04	2.297E+04	1.216E+04	8.803E+03	5.339E+02	1.715E+01	1.766E-02	1.830E-05	1.887E-08	5.648E-12
RH	7.981E+05	6.449E+04	2.187E+04	1.194E+04	8.759E+03	5.339E+02	1.715E+01	1.771E-02	1.958E-05	1.362E-07	6.994E-09
PD	1.082E+05	1.750E-03	1.750E-03	1.750E-03	1.750E-03	1.750E-03	1.750E-03	1.750E-03	1.750E-03	1.750E-03	1.750E-03
AG	1.150E+05	9.357E+00	5.470E+00	4.246E+00	3.296E+00	5.727E-02	3.616E-04	3.308E-07	2.996E-07	2.837E-07	2.660E-07

CD	5.048E+04	8.963E+01	2.272E+01	6.522E+00	2.592E+00	1.110E+00	8.757E-01	5.445E-01	3.386E-01	2.105E-01	1.202E-01
IN	1.062E+05	6.202E-03	1.500E-03	3.628E-04	8.777E-05	1.801E-12	1.789E-12	1.789E-12	1.789E-12	1.789E-12	1.789E-12
SN	4.507E+05	2.967E+02	1.807E+02	1.123E+02	6.999E+01	1.470E-01	2.864E-02	2.759E-02	2.714E-02	2.675E-02	2.636E-02
SB	1.154E+06	5.669E+02	5.293E+02	4.964E+02	4.661E+02	1.712E+02	4.902E+01	4.039E+00	3.560E-01	5.443E-02	2.893E-02
TE	2.628E+06	4.367E+03	1.498E+03	7.370E+02	4.359E+02	4.180E+01	1.195E+01	9.788E-01	8.015E-02	6.563E-03	3.425E-04
I	3.800E+06	1.146E+02	4.477E-02	1.023E-03	1.007E-03	1.007E-03	1.007E-03	1.007E-03	1.007E-03	1.007E-03	1.007E-03
XE	2.992E+06	5.028E+01	2.362E-01	1.161E-03	5.684E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS	2.609E+06	4.155E+03	4.071E+03	4.013E+03	3.958E+03	3.357E+03	2.919E+03	2.303E+03	1.827E+03	1.450E+03	1.104E+03
BA	3.349E+06	7.321E+03	3.445E+03	3.398E+03	3.378E+03	3.080E+03	2.744E+03	2.178E+03	1.728E+03	1.372E+03	1.044E+03
LA	3.351E+06	4.466E+03	3.167E+01	2.246E-01	1.592E-03	6.351E-12	6.351E-12	6.351E-12	6.351E-12	6.351E-12	6.351E-12
CE	2.200E+06	1.456E+05	7.504E+04	5.414E+04	4.249E+04	1.200E+03	1.397E+01	1.894E-03	1.233E-06	9.764E-07	9.764E-07
PR	1.847E+06	8.862E+04	6.688E+04	5.349E+04	4.281E+04	1.214E+03	1.414E+01	1.916E-03	2.597E-07	3.519E-11	9.598E-16
ND	4.376E+05	6.806E+02	2.226E+00	7.280E-03	2.383E-05	4.476E-11	4.520E-11	4.520E-11	4.520E-11	4.520E-11	4.520E-11
PM	2.816E+05	1.346E+04	1.223E+04	1.137E+04	1.062E+04	3.690E+03	9.846E+02	7.012E+01	4.993E+00	3.556E-01	1.575E-02
SM	4.448E+04	6.128E+01	6.116E+01	6.104E+01	6.093E+01	5.908E+01	5.685E+01	5.263E+01	4.873E+01	4.512E+01	4.120E+01
EU	1.363E+04	2.385E+02	1.076E+02	1.024E+02	9.924E+01	6.083E+01	3.357E+01	1.090E+01	3.861E+00	1.479E+00	5.147E-01
GD	9.790E+02	5.448E-02	4.195E-02	3.229E-02	2.486E-02	3.787E-04	2.027E-06	5.803E-11	1.275E-14	1.161E-14	1.196E-14
TB	3.046E+02	1.391E+00	5.729E-01	2.387E-01	9.948E-02	8.222E-08	2.049E-15	1.272E-30	0.000E+00	0.000E+00	0.000E+00
DY	2.885E+01	4.408E-08	3.546E-16	2.852E-24	2.294E-32	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HO	5.891E+00	1.861E-06	1.795E-06	1.795E-06	1.794E-06	1.790E-06	1.785E-06	1.775E-06	1.765E-06	1.754E-06	1.742E-06
ER	1.462E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SUMTOT	5.364E+07	9.388E+05	4.204E+05	2.348E+05	1.564E+05	1.986E+04	1.206E+04	8.658E+03	6.766E+03	5.337E+03	4.045E+03
TOTAL	5.364E+07	9.388E+05	4.204E+05	2.348E+05	1.564E+05	1.986E+04	1.206E+04	8.658E+03	6.766E+03	5.337E+03	4.045E+03

CUMULATIVE TABLE TOTALS

AP+FP	5.369E+07	9.426E+05	4.221E+05	2.355E+05	1.568E+05	1.988E+04	1.207E+04	8.660E+03	6.767E+03	5.338E+03	4.046E+03
ACT+FP	7.171E+07	9.397E+05	4.204E+05	2.348E+05	1.564E+05	1.986E+04	1.206E+04	8.659E+03	6.766E+03	5.338E+03	4.045E+03
AP+ACT+FP	7.176E+07	9.435E+05	4.221E+05	2.355E+05	1.568E+05	1.988E+04	1.207E+04	8.661E+03	6.767E+03	5.339E+03	4.046E+03

OUTPUT UNIT = 6 PAGE 86

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
H 3	6.205E-04	6.119E-04	6.033E-04	5.949E-04	5.866E-04	4.687E-04	3.540E-04	2.019E-04	1.152E-04	6.571E-05	3.389E-05
C 14	1.198E-09	1.198E-09	1.198E-09	1.198E-09	1.198E-09	1.198E-09	1.197E-09	1.195E-09	1.194E-09	1.193E-09	1.191E-09
CO 72	2.832E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

NI 72	1.983E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 72	5.232E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 72	3.160E-02	2.053E-16	1.334E-30	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 72	3.977E-01	3.702E-15	2.405E-29	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 73	7.876E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 73	2.778E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 73	5.748E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 73	6.427E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 73	2.060E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 73M	1.810E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CO 74	2.056E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 74	1.489E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 74	1.366E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 74	5.649E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 74	2.360E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 75	9.118E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 75	1.124E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 75	3.327E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 75	1.599E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 75	5.427E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 75M	6.907E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 76	1.995E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 76	1.330E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 76	4.284E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 76	1.331E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 76	6.257E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 77	4.665E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 77	5.106E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 77	9.436E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 77	1.314E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 77	3.616E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 77M	5.045E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 77	1.415E+00	1.618E-17	1.616E-34	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 77M	3.695E-03	4.222E-20	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NI 78	4.577E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 78	2.541E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 78	7.265E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 78	4.400E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 78	6.213E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 78	3.238E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 79	5.511E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 79	7.086E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 79	3.616E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

GE 79	5.599E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 79	2.721E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 79	3.791E-06	3.792E-06	3.792E-06	3.792E-06	3.792E-06	3.791E-06	3.791E-06	3.791E-06	3.790E-06	3.790E-06	3.789E-06
SE 79M	2.942E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 80	8.773E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 87

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
ZN 80	2.113E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 80	6.539E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 80	5.945E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 80	2.144E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 80	7.313E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CU 81	5.963E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 81	8.200E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 81	3.032E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 81	2.431E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 81	1.859E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 81	7.189E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 81M	3.487E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 82	9.402E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 82	1.847E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 82	1.428E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 82	3.874E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 82M	2.378E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 82	2.758E+00	5.693E-19	1.168E-37	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 82M	2.676E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZN 83	1.047E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 83	4.703E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 83	2.577E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 83	5.523E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 83	3.197E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 83M	3.778E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 83	9.226E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 83M	1.145E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GA 84	6.081E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

GE 84	5.956E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 84	9.608E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 84	4.672E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 84	1.546E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 84M	4.543E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 85	2.352E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 85	5.197E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 85	1.026E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 85M	7.736E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 85	6.464E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 85	6.162E-01	6.079E-01	5.981E-01	5.885E-01	5.791E-01	4.471E-01	3.236E-01	1.695E-01	8.880E-02	4.651E-02	2.169E-02
KR 85M	2.592E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 86	4.046E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 86	3.861E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 86	1.527E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 86	2.346E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 86M	2.204E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 86	1.811E-01	6.092E-03	2.049E-04	6.889E-06	2.317E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 86M	5.194E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 87	7.679E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 87	1.787E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 87	2.044E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 87	4.055E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 88

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
KR 87	2.635E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 87M	8.113E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GE 88	2.093E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 88	1.527E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 88	6.985E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 88	2.994E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 88	4.073E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 88	4.763E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS 89	1.414E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 89	2.716E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

BR 89	4.212E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 89	7.029E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 89	7.134E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 89	9.578E+02	2.736E+02	7.812E+01	2.231E+01	6.369E+00	1.244E-08	1.614E-19	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 89M	4.905E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 90	7.987E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 90	3.314E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 90	5.658E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 90	9.094E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 90M	2.183E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 90	3.660E+00	3.639E+00	3.617E+00	3.595E+00	3.574E+00	3.250E+00	2.885E+00	2.274E+00	1.792E+00	1.413E+00	1.067E+00
Y 90	1.782E+01	1.738E+01	1.728E+01	1.717E+01	1.707E+01	1.552E+01	1.378E+01	1.086E+01	8.561E+00	6.747E+00	5.095E+00
Y 90M	1.134E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 91	1.506E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 91	1.054E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 91	5.392E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 91	1.111E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 91	3.880E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 91	1.147E+03	3.932E+02	1.333E+02	4.518E+01	1.531E+01	4.655E-07	1.869E-16	3.011E-35	0.000E+00	0.000E+00	0.000E+00
Y 91M	9.285E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE 92	5.499E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 92	1.074E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 92	2.432E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 92	8.740E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 92	4.610E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 92	5.114E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BR 93	2.088E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 93	1.314E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 93	6.066E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 93	8.356E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 93	4.202E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 93	8.215E-06	8.265E-06	8.265E-06	8.265E-06	8.265E-06	8.265E-06	8.265E-06	8.265E-06	8.265E-06	8.265E-06	8.265E-06
NB 93M	1.067E-07	2.570E-07	4.053E-07	5.518E-07	6.964E-07	2.776E-06	4.845E-06	7.692E-06	9.401E-06	1.043E-05	1.113E-05
BR 94	2.163E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 94	4.276E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 94	4.286E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 94	6.396E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 94	9.134E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 94	2.301E-08	2.301E-08	2.301E-08	2.301E-08	2.301E-08	2.301E-08	2.301E-08	2.300E-08	2.299E-08	2.298E-08	2.297E-08
BR 95	1.321E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 95	6.451E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
RB 95	2.150E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 95	9.335E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 95	7.619E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 95	1.820E+03	6.770E+02	2.517E+02	9.361E+01	3.481E+01	4.653E-06	1.189E-14	7.771E-32	0.000E+00	0.000E+00	0.000E+00
NB 95	1.144E+03	9.797E+02	4.559E+02	1.846E+02	7.116E+01	9.783E-06	2.501E-14	1.634E-31	0.000E+00	0.000E+00	0.000E+00
NB 95M	3.593E+00	1.378E+00	5.123E-01	1.905E-01	7.084E-02	9.469E-09	2.420E-17	1.581E-34	0.000E+00	0.000E+00	0.000E+00
BR 96	8.821E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 96	8.547E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 96	7.733E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 96	4.867E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 96	1.242E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 96	4.572E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 97	6.505E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 97	1.237E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 97	4.375E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 97	8.486E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 97	2.876E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 97	3.697E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 97M	2.303E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR 98	6.474E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 98	3.461E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 98	1.324E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 98	9.453E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 98	2.945E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 98	6.868E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 98M	7.348E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RB 99	2.930E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR 99	5.760E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y 99	4.253E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR 99	7.762E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 99	5.162E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB 99M	2.263E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO 99	1.855E+03	1.875E-07	1.894E-17	1.913E-27	1.933E-37	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC 99	2.426E-04	2.536E-04	2.536E-04	2.536E-04	2.536E-04	2.536E-04	2.536E-04	2.536E-04	2.536E-04	2.536E-04	2.536E-04
TC 99M	4.262E+02	4.740E-08	4.788E-18	4.838E-28	4.860E-38	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

RB100	3.415E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR100	8.316E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y100	3.009E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR100	4.096E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB100	7.186E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB100M	6.290E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC100	5.805E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR101	1.817E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y101	7.894E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR101	6.126E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB101	6.538E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO101	5.882E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC101	2.471E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR102	1.272E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y102	2.683E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR102	2.326E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 90

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
NB102	9.867E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO102	8.441E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC102	4.727E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC102M	6.388E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH102	2.124E-05	2.001E-05	1.885E-05	1.775E-05	1.672E-05	6.428E-06	1.946E-06	1.783E-07	1.633E-08	1.496E-09	8.915E-11
SR103	5.647E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y103	2.885E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR103	1.510E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB103	4.675E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO103	5.270E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC103	2.850E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU103	9.386E+02	1.874E+02	3.741E+01	7.469E+00	1.491E+00	9.496E-12	9.607E-26	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH103M	5.817E+01	1.162E+01	2.320E+00	4.633E-01	9.249E-02	5.890E-13	5.958E-27	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SR104	1.758E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y104	3.003E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR104	2.159E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB104	3.223E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

MO104	1.644E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC104	6.156E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH104	9.227E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH104M	9.380E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Y105	1.468E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR105	4.787E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB105	7.590E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO105	3.099E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC105	2.218E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU105	1.423E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH105	2.467E+02	6.353E-17	1.402E-35	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH105M	4.340E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR106	5.631E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB106	3.138E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO106	8.095E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC106	2.673E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU106	9.883E-01	8.322E-01	7.008E-01	5.901E-01	4.969E-01	3.175E-02	1.020E-03	1.050E-06	1.088E-09	1.122E-12	3.358E-16
RH106	3.076E+02	1.342E+02	1.130E+02	9.519E+01	8.015E+01	5.121E+00	1.645E-01	1.697E-04	1.755E-07	1.811E-10	5.417E-14
RH106M	1.431E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR107	4.116E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB107	3.846E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO107	5.412E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC107	9.113E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU107	7.331E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH107	4.096E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD107	1.037E-07	1.037E-07	1.037E-07	1.037E-07	1.037E-07	1.037E-07	1.037E-07	1.037E-07	1.037E-07	1.037E-07	1.037E-07
PD107M	7.669E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ZR108	9.668E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB108	1.738E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO108	1.569E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC108	8.968E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU108	1.685E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH108	7.683E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH108M	9.613E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 91

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
AG108M	3.139E-09	3.135E-09	3.131E-09	3.126E-09	3.122E-09	3.055E-09	2.972E-09	2.815E-09	2.665E-09	2.524E-09	2.366E-09
ZR109	9.816E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB109	2.809E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO109	1.004E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC109	3.852E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU109	4.950E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH109	2.731E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH109M	2.678E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD109	9.722E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD109M	2.015E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG109M	1.884E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NB110	4.438E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO110	2.020E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC110	1.935E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU110	1.543E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH110	3.834E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH110M	1.487E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG110	1.140E+01	6.644E-04	5.158E-04	4.004E-04	3.108E-04	5.400E-06	3.407E-08	1.356E-12	5.397E-17	2.148E-21	1.380E-26
AG110M	1.496E-01	1.161E-01	9.013E-02	6.997E-02	5.431E-02	9.437E-04	5.953E-06	2.370E-10	9.432E-15	3.754E-19	2.412E-24
NB111	3.272E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO111	6.931E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC111	6.770E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU111	1.807E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH111	1.568E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD111	6.250E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD111M	4.511E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG111	2.526E+01	5.177E-03	1.058E-06	2.163E-10	4.421E-14	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG111M	4.510E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO112	1.016E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC112	3.774E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU112	7.112E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH112	1.799E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD112	7.146E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG112	9.675E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO113	1.069E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC113	8.553E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU113	8.259E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH113	1.082E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD113	8.034E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG113	3.839E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG113M	4.819E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD113M	2.365E-03	2.343E-03	2.315E-03	2.288E-03	2.261E-03	1.869E-03	1.474E-03	9.167E-04	5.700E-04	3.544E-04	2.023E-04

MO114	8.893E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC114	2.719E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU114	3.055E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH114	1.186E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD114	3.713E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG114	6.545E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
MO115	8.275E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC115	4.870E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU115	2.473E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 92

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1MW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PUREX 1MW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
RH115	7.748E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD115	8.599E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG115	4.279E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG115M	1.797E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD115	1.675E+01	7.742E-12	3.560E-24	1.637E-36	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD115M	1.360E+00	3.291E-01	7.961E-02	1.926E-02	4.658E-03	6.396E-13	3.007E-25	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN115M	1.055E+01	1.237E-05	2.991E-06	7.235E-07	1.750E-07	2.404E-17	1.130E-29	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC116	3.949E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU116	4.254E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH116	5.797E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD116	4.163E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG116	4.933E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG116M	5.777E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN116	6.484E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN116M	1.027E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC117	1.440E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU117	1.037E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH117	3.092E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD117	8.573E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG117	3.592E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG117M	3.767E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD117	2.307E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD117M	1.410E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN117	1.331E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

IN117M	1.413E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN117M	3.808E-04	4.148E-06	4.519E-08	4.924E-10	5.365E-12	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RU118	4.987E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH118	5.863E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD118	4.720E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG118	6.333E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG118M	2.808E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD118	1.277E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN118	5.925E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN118M	2.315E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH119	3.021E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD119	5.628E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG119	8.161E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD119	2.648E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD119M	2.955E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN119	1.113E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN119M	3.064E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN119M	8.462E-03	6.536E-03	5.048E-03	3.899E-03	3.011E-03	4.828E-05	2.755E-07	8.969E-12	2.920E-16	9.506E-21	4.818E-26
RU120	1.248E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH120	7.822E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD120	1.751E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG120	5.031E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD120	2.717E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN120	5.680E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN120M	3.928E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH121	1.043E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD121	1.157E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 93

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
AG121	5.392E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD121	8.005E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN121	4.907E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN121M	1.289E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN121	6.139E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN121M	9.099E-06	9.067E-06	9.036E-06	9.005E-06	8.974E-06	8.489E-06	7.920E-06	6.895E-06	6.002E-06	5.224E-06	4.436E-06

RH122	1.619E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD122	2.709E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG122	5.164E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD122	4.087E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN122	1.388E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN122M	5.489E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB122	2.391E-01	1.580E-11	1.045E-21	6.905E-32	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB122M	3.554E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
RH123	1.207E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PD123	9.366E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG123	2.190E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD123	9.177E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN123	5.748E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN123M	2.666E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN123	1.422E+00	8.713E-01	5.338E-01	3.270E-01	2.003E-01	7.885E-05	4.371E-09	1.344E-17	4.130E-26	1.269E-34	0.000E+00
SN123M	1.756E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE123M	6.139E-06	3.618E-06	2.132E-06	1.256E-06	7.402E-07	1.565E-10	3.988E-15	2.590E-24	1.682E-33	0.000E+00	0.000E+00
PD124	1.354E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG124	1.385E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD124	5.784E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN124	1.769E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB124	1.466E-01	5.122E-02	1.790E-02	6.254E-03	2.185E-03	1.080E-10	7.957E-20	4.320E-38	0.000E+00	0.000E+00	0.000E+00
SB124M	3.777E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG125	3.366E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD125	6.795E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN125	7.398E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN125M	5.455E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN125	2.369E+01	3.334E-02	4.709E-05	6.628E-08	9.326E-11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN125M	4.071E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB125	1.763E+00	1.757E+00	1.651E+00	1.550E+00	1.456E+00	5.353E-01	1.532E-01	1.254E-02	1.027E-03	8.409E-05	4.388E-06
TE125M	4.828E-02	8.983E-02	9.973E-02	9.884E-02	9.458E-02	3.511E-02	1.005E-02	8.227E-04	6.737E-05	5.516E-06	2.879E-07
PD126	2.194E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AG126	1.350E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD126	3.822E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN126	2.778E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN126	3.012E-05	3.012E-05	3.012E-05	3.012E-05	3.012E-05	3.012E-05	3.012E-05	3.012E-05	3.012E-05	3.012E-05	3.011E-05
SB126	3.203E+00	1.948E-02	1.801E-04	6.318E-05	6.247E-05	6.248E-05	6.247E-05	6.247E-05	6.247E-05	6.246E-05	6.246E-05
SB126M	1.246E+00	3.075E-04	3.075E-04	3.075E-04	3.075E-04	3.075E-04	3.075E-04	3.075E-04	3.075E-04	3.075E-04	3.074E-04
CD127	2.895E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN127	1.181E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN127M	1.236E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN127	2.590E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN127M	7.912E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

SB127	1.635E+02	1.201E-05	8.688E-13	6.286E-20	4.548E-27	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE127	3.400E+01	1.200E+00	6.716E-01	3.758E-01	2.103E-01	1.941E-05	1.756E-10	1.438E-20	1.197E-30	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 94

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
TE127M	7.958E-01	4.881E-01	2.731E-01	1.528E-01	8.551E-02	7.894E-06	7.143E-11	5.848E-21	4.788E-31	3.884E-41	0.000E+00
AG128	5.290E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD128	8.953E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN128	3.081E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN128	2.296E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB128	6.631E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB128M	8.864E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I128	7.198E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD129	5.607E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN129	1.928E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN129	4.487E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN129M	6.172E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB129	9.801E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE129	3.009E+02	3.471E+00	5.277E-01	8.022E-02	1.219E-02	9.921E-16	4.311E-32	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE129M	1.711E+01	2.617E+00	3.979E-01	6.048E-02	9.194E-03	7.480E-16	3.250E-32	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I129	4.377E-07	4.617E-07	4.651E-07	4.656E-07	4.657E-07	4.657E-07	4.657E-07	4.657E-07	4.657E-07	4.657E-07	4.657E-07
CD130	5.270E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN130	2.926E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN130	8.256E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB130	6.302E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB130M	3.056E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I130	1.007E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I130M	4.954E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CD131	1.340E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN131	1.100E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN131	1.802E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB131	3.758E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE131	1.811E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE131M	3.916E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I131	9.929E+02	3.898E-01	1.487E-04	5.669E-08	2.162E-11	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE131M	2.837E+00	4.408E-02	2.272E-04	1.117E-06	5.468E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

CD132	1.123E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN132	4.802E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN132	7.334E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB132	3.831E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB132M	2.411E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE132	8.605E+02	3.149E-06	1.152E-14	4.214E-23	1.541E-31	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I132	7.216E+03	2.692E-05	9.848E-14	3.602E-22	1.318E-30	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS132	2.085E-02	1.184E-06	6.729E-11	3.823E-15	2.172E-19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN133	4.673E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN133	5.467E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB133	4.538E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE133	3.939E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE133M	4.558E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I133	3.897E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I133M	1.516E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE133	6.719E+02	4.776E-03	2.746E-08	1.579E-13	9.076E-19	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE133M	2.693E+01	1.237E-11	3.467E-24	9.713E-37	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
IN134	2.965E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN134	5.773E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB134	8.977E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
SB134M	8.487E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE134	4.158E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I134	1.387E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I134M	1.118E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE134M	3.865E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS134	5.520E+00	5.077E+00	4.668E+00	4.291E+00	3.945E+00	1.028E+00	1.915E-01	6.641E-03	2.303E-04	7.987E-06	1.512E-07
CS134M	9.550E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN135	9.406E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB135	5.878E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE135	5.558E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I135	6.918E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE135	5.534E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE135M	3.667E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

CS135	4.413E-06	4.504E-06	4.504E-06	4.504E-06	4.504E-06	4.504E-06	4.504E-06	4.504E-06	4.504E-06	4.504E-06	4.504E-06
CS135M	1.614E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA135M	1.545E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SN136	6.925E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB136	1.512E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE136	2.865E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I136	7.388E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I136M	3.998E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS136	3.919E+01	3.127E-01	2.496E-03	1.991E-05	1.589E-07	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA136M	5.728E+00	4.571E-02	3.648E-04	2.911E-06	2.323E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB137	1.870E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE137	1.164E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I137	6.337E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE137	6.608E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS137	4.042E+00	4.019E+00	3.995E+00	3.972E+00	3.950E+00	3.601E+00	3.208E+00	2.546E+00	2.021E+00	1.604E+00	1.221E+00
BA137M	1.375E+01	1.350E+01	1.342E+01	1.334E+01	1.326E+01	1.209E+01	1.077E+01	8.551E+00	6.786E+00	5.386E+00	4.101E+00
SB138	2.924E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE138	2.490E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I138	3.706E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE138	6.055E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS138	1.305E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS138M	1.398E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SB139	1.868E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE139	7.014E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I139	1.804E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE139	7.195E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS139	6.958E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA139	3.340E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE140	6.958E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I140	6.463E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE140	4.150E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS140	1.278E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA140	1.527E+03	1.083E+01	7.678E-02	5.444E-04	3.860E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA140	9.237E+03	7.486E+01	5.308E-01	3.764E-03	2.669E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR140	1.234E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE141	4.403E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I141	1.025E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE141	2.473E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
CS141	7.676E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA141	5.609E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA141	3.227E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE141	6.429E+02	9.240E+01	1.319E+01	1.882E+00	2.687E-01	7.972E-15	9.818E-32	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TE142	3.404E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I142	1.893E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE142	6.612E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS142	6.966E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA142	4.612E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA142	1.144E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR142	5.027E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR142M	3.094E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I143	9.485E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE143	1.631E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS143	2.953E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA143	7.492E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA143	6.183E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE143	2.237E+03	2.300E-17	2.349E-37	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR143	9.021E+02	9.547E+00	8.984E-02	8.454E-04	7.956E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
I144	9.981E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE144	2.027E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS144	1.088E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA144	3.752E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA144	9.717E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE144	6.837E+01	5.473E+01	4.380E+01	3.506E+01	2.806E+01	7.960E-01	9.266E-03	1.256E-06	1.702E-10	2.306E-14	6.291E-19
PR144	7.705E+02	6.065E+02	4.854E+02	3.885E+02	3.110E+02	8.821E+00	1.027E-01	1.392E-05	1.886E-09	2.556E-13	6.971E-18
PR144M	4.246E-01	3.387E-01	2.711E-01	2.170E-01	1.737E-01	4.927E-03	5.736E-05	7.773E-09	1.053E-12	1.428E-16	3.894E-21
XE145	3.065E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS145	2.053E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA145	3.524E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA145	5.135E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE145	3.153E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR145	1.468E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
XE146	1.652E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS146	4.271E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA146	7.835E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA146	5.279E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE146	7.264E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PR146	4.253E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM146	5.986E-05	5.800E-05	5.621E-05	5.446E-05	5.277E-05	3.188E-05	1.698E-05	4.814E-06	1.365E-06	3.871E-07	8.750E-08
XE147	2.097E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS147	5.956E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA147	3.385E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA147	1.773E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE147	2.660E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR147	2.013E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND147	5.015E+02	1.642E+00	5.372E-03	1.756E-05	5.749E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM147	4.088E+00	4.640E+00	4.346E+00	4.068E+00	3.808E+00	1.323E+00	3.532E-01	2.515E-02	1.791E-03	1.275E-04	5.644E-06
SM147	1.546E-10	4.419E-10	7.196E-10	9.795E-10	1.223E-09	3.548E-09	4.456E-09	4.763E-09	4.785E-09	4.787E-09	4.787E-09
CS148	5.078E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA148	4.159E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

ORIGEN2 V2.2 (5-4-2002); Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
LA148	1.044E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE148	8.754E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR148	2.769E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM148	1.578E+02	2.148E-01	4.613E-02	9.963E-03	2.152E-03	4.817E-14	2.346E-27	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM148M	2.892E+01	6.245E+00	1.349E+00	2.912E-01	6.290E-02	1.408E-12	6.858E-26	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA149	7.531E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA149	1.949E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE149	1.198E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR149	9.206E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND149	5.924E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM149	2.579E+02	9.953E-11	3.717E-23	1.388E-35	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS150	5.227E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
BA150	4.447E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA150	5.324E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE150	3.112E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR150	1.285E+03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM150	1.088E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA151	5.644E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE151	1.848E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR151	5.063E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

ND151	4.448E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM151	1.867E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM151	6.983E-03	7.185E-03	7.171E-03	7.157E-03	7.144E-03	6.927E-03	6.665E-03	6.171E-03	5.714E-03	5.290E-03	4.830E-03
BA152	1.467E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA152	9.018E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE152	2.985E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR152	3.649E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND152	1.124E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM152	3.523E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM152M	5.602E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU152	1.294E-03	1.278E-03	1.262E-03	1.246E-03	1.230E-03	1.003E-03	7.776E-04	4.671E-04	2.806E-04	1.685E-04	9.237E-05
EU152M	5.539E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LA153	8.227E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE153	9.268E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR153	9.085E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND153	2.412E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM153	9.715E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM153	5.659E+01	4.220E-13	3.141E-27	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD153	6.393E-05	4.922E-05	3.789E-05	2.917E-05	2.246E-05	3.421E-07	1.831E-09	5.241E-14	1.501E-18	4.296E-23	1.871E-28
LA154	5.025E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE154	8.418E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR154	3.085E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND154	5.680E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM154	1.680E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM154M	2.523E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU154	2.575E-01	2.524E-01	2.473E-01	2.424E-01	2.376E-01	1.721E-01	1.150E-01	5.137E-02	2.294E-02	1.025E-02	3.959E-03
CE155	1.557E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR155	5.181E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND155	5.002E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM155	7.316E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM155	4.069E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

OUTPUT UNIT = 6 PAGE 98

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

* PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

FISSION PRODUCTS

POWER= 1.00000E+00 MW, BURNUP= 1.00000E+00 MWD, FLUX= 1.00E+00 N/CM**2-SEC

9 SUMMARY TABLE: THERMAL POWER, WATTS
PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
EU155	6.061E-02	5.857E-02	5.656E-02	5.462E-02	5.274E-02	3.015E-02	1.499E-02	3.705E-03	9.158E-04	2.264E-04	4.350E-05
CE156	1.249E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

PR156	1.356E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND156	1.079E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM156	5.838E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM156	1.024E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU156	8.531E+01	1.338E+00	2.071E-02	3.207E-04	4.964E-06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CE157	1.403E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR157	2.002E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND157	5.762E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM157	2.162E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM157	2.232E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU157	1.215E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR158	2.087E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND158	7.006E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM158	1.035E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM158	5.239E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU158	1.690E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PR159	7.727E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND159	1.200E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM159	1.918E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM159	6.401E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU159	6.240E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD159	2.216E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ND160	9.865E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM160	5.428E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM160	2.242E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU160	4.210E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB160	2.687E-02	1.120E-02	4.666E-03	1.944E-03	8.103E-04	6.696E-10	1.669E-17	1.036E-32	0.000E+00	0.000E+00	0.000E+00
ND161	1.135E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM161	6.160E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM161	9.577E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU161	1.686E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD161	1.138E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB161	2.974E-01	3.172E-05	3.383E-09	3.607E-13	3.846E-17	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM162	4.781E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM162	1.335E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU162	9.684E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD162	3.071E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB162	8.338E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB162M	2.709E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SM163	2.933E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
EU163	2.310E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
GD163	3.565E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TB163	2.331E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

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SM164      2.453E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
EU164      8.043E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
GD164      1.011E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
TB164      2.671E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
SM165      2.498E-04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
EU165      1.244E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
                                                                                    OUTPUT UNIT =  6                    PAGE   99
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:26

    *  PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240
                                                                                          FISSION PRODUCTS
    POWER= 1.00000E+00 MW,  BURNUP= 1.00000E+00 MWD,  FLUX= 1.00E+00 N/CM**2-SEC

                    9 SUMMARY TABLE:  THERMAL POWER,  WATTS
                          PUREX 1WW SIMULANT  FROM 1 MTU FUEL @ 6% PU-240
           0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
GD165      8.279E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
TB165      9.138E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
DY165      7.337E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
DY165M     5.620E-03 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
DY166      6.400E-03 5.148E-11 4.140E-19 3.330E-27 2.679E-35 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
HO166      2.525E-02 2.815E-10 2.264E-18 1.821E-26 1.465E-34 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
HO166M     1.989E-08 1.989E-08 1.988E-08 1.988E-08 1.988E-08 1.983E-08 1.978E-08 1.966E-08 1.955E-08 1.944E-08 1.930E-08
SUMTOT     6.855E+05 3.578E+03 1.670E+03 9.257E+02 5.981E+02 5.282E+01 3.209E+01 2.451E+01 1.928E+01 1.521E+01 1.152E+01

TOTAL      6.855E+05 3.578E+03 1.670E+03 9.257E+02 5.981E+02 5.282E+01 3.209E+01 2.451E+01 1.928E+01 1.521E+01 1.152E+01
                                                                                    OUTPUT UNIT =  6                    PAGE  100
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:26

    *  PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240
                                                                                          FISSION PRODUCTS
    POWER= 1.00000E+00 MW,  BURNUP= 1.00000E+00 MWD,  FLUX= 1.00E+00 N/CM**2-SEC

                    9 SUMMARY TABLE:  THERMAL POWER,  WATTS
                          PUREX 1WW SIMULANT  FROM 1 MTU FUEL @ 6% PU-240
           0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
 H         6.205E-04 6.119E-04 6.033E-04 5.949E-04 5.866E-04 4.687E-04 3.540E-04 2.019E-04 1.152E-04 6.571E-05 3.389E-05
 C         1.198E-09 1.198E-09 1.198E-09 1.198E-09 1.198E-09 1.198E-09 1.197E-09 1.195E-09 1.194E-09 1.193E-09 1.191E-09
CO         3.825E-02 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
NI         7.413E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
CU         5.748E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
ZN         3.568E+01 2.053E-16 1.334E-30 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
GA         2.307E+02 3.702E-15 2.405E-29 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
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GE	8.624E+02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
AS	3.701E+03	1.618E-17	1.616E-34	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE	7.676E+03	3.792E-06	3.792E-06	3.792E-06	3.792E-06	3.791E-06	3.791E-06	3.791E-06	3.790E-06	3.790E-06	3.789E-06
BR	2.264E+04	5.693E-19	1.168E-37	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
KR	2.931E+04	6.079E-01	5.981E-01	5.885E-01	5.791E-01	4.471E-01	3.236E-01	1.695E-01	8.880E-02	4.651E-02	2.169E-02
RB	5.646E+04	6.092E-03	2.049E-04	6.890E-06	2.324E-07	7.446E-10	7.446E-10	7.446E-10	7.446E-10	7.446E-10	7.446E-10
SR	4.478E+04	2.772E+02	8.173E+01	2.590E+01	9.943E+00	3.250E+00	2.885E+00	2.274E+00	1.792E+00	1.413E+00	1.067E+00
Y	6.688E+04	4.105E+02	1.505E+02	6.235E+01	3.239E+01	1.552E+01	1.378E+01	1.086E+01	8.561E+00	6.747E+00	5.095E+00
ZR	2.973E+04	6.770E+02	2.517E+02	9.361E+01	3.481E+01	1.292E-05	8.265E-06	8.265E-06	8.265E-06	8.265E-06	8.265E-06
NB	5.839E+04	9.811E+02	4.564E+02	1.848E+02	7.123E+01	1.259E-05	4.868E-06	7.715E-06	9.424E-06	1.045E-05	1.115E-05
MO	2.023E+04	1.875E-07	1.894E-17	1.913E-27	1.933E-37	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TC	2.409E+04	2.537E-04	2.536E-04	2.536E-04	2.536E-04	2.536E-04	2.536E-04	2.536E-04	2.536E-04	2.536E-04	2.536E-04
RU	4.314E+03	1.882E+02	3.811E+01	8.059E+00	1.988E+00	3.175E-02	1.020E-03	1.050E-06	1.088E-09	1.122E-12	3.358E-16
RH	3.570E+03	1.459E+02	1.154E+02	9.565E+01	8.025E+01	5.121E+00	1.645E-01	1.699E-04	1.918E-07	1.677E-09	8.920E-11
PD	6.546E+02	1.037E-07	1.037E-07	1.037E-07	1.037E-07	1.037E-07	1.037E-07	1.037E-07	1.037E-07	1.037E-07	1.037E-07
AG	8.764E+02	1.220E-01	9.065E-02	7.037E-02	5.462E-02	9.491E-04	5.991E-06	3.149E-09	2.756E-09	2.610E-09	2.447E-09
CD	5.782E+02	3.314E-01	8.192E-02	2.154E-02	6.918E-03	1.869E-03	1.474E-03	9.167E-04	5.700E-04	3.544E-04	2.023E-04
IN	2.319E+03	1.237E-05	2.991E-06	7.235E-07	1.750E-07	2.590E-15	2.566E-15	2.566E-15	2.566E-15	2.566E-15	2.566E-15
SN	5.699E+03	9.112E-01	5.389E-01	3.309E-01	2.034E-01	1.657E-04	3.832E-05	3.701E-05	3.612E-05	3.534E-05	3.455E-05
SB	2.283E+04	1.828E+00	1.669E+00	1.557E+00	1.459E+00	5.356E-01	1.535E-01	1.291E-02	1.397E-03	4.540E-04	3.743E-04
TE	2.598E+04	7.866E+00	1.970E+00	7.682E-01	4.117E-01	3.514E-02	1.005E-02	8.227E-04	6.737E-05	5.516E-06	2.879E-07
I	5.717E+04	3.898E-01	1.491E-04	5.223E-07	4.657E-07	4.657E-07	4.657E-07	4.657E-07	4.657E-07	4.657E-07	4.657E-07
XE	2.899E+04	4.886E-02	2.273E-04	1.117E-06	5.468E-09	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
CS	5.191E+04	9.408E+00	8.666E+00	8.264E+00	7.895E+00	4.629E+00	3.400E+00	2.553E+00	2.021E+00	1.604E+00	1.221E+00
BA	3.105E+04	2.437E+01	1.349E+01	1.334E+01	1.326E+01	1.209E+01	1.077E+01	8.551E+00	6.786E+00	5.386E+00	4.101E+00
LA	5.329E+04	7.486E+01	5.308E-01	3.764E-03	2.669E-05	4.657E-14	4.657E-14	4.657E-14	4.657E-14	4.657E-14	4.657E-14
CE	1.210E+04	1.471E+02	5.699E+01	3.694E+01	2.833E+01	7.960E-01	9.266E-03	1.256E-06	1.702E-10	2.306E-14	6.291E-19
PR	1.539E+04	6.163E+02	4.858E+02	3.887E+02	3.111E+02	8.826E+00	1.027E-01	1.392E-05	1.887E-09	2.557E-13	6.975E-18
ND	2.016E+03	1.642E+00	5.372E-03	1.756E-05	5.749E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
PM	1.461E+03	1.110E+01	5.741E+00	4.369E+00	3.873E+00	1.323E+00	3.532E-01	2.515E-02	1.792E-03	1.279E-04	5.732E-06
SM	1.448E+02	7.185E-03	7.171E-03	7.157E-03	7.144E-03	6.927E-03	6.665E-03	6.171E-03	5.714E-03	5.290E-03	4.830E-03
EU	1.282E+02	1.650E+00	3.259E-01	2.986E-01	2.915E-01	2.032E-01	1.308E-01	5.554E-02	2.414E-02	1.064E-02	4.095E-03
GD	4.201E+00	4.922E-05	3.789E-05	2.917E-05	2.246E-05	3.421E-07	1.831E-09	5.255E-14	1.460E-16	1.512E-16	1.558E-16
TB	1.777E+00	1.123E-02	4.666E-03	1.944E-03	8.103E-04	6.696E-10	1.669E-17	1.036E-32	0.000E+00	0.000E+00	0.000E+00
DY	8.539E-02	5.148E-11	4.140E-19	3.330E-27	2.679E-35	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
HO	2.525E-02	2.017E-08	1.988E-08	1.988E-08	1.988E-08	1.983E-08	1.978E-08	1.966E-08	1.955E-08	1.944E-08	1.930E-08
SUMTOT	6.855E+05	3.578E+03	1.670E+03	9.257E+02	5.981E+02	5.282E+01	3.209E+01	2.451E+01	1.928E+01	1.521E+01	1.152E+01
TOTAL	6.855E+05	3.578E+03	1.670E+03	9.257E+02	5.981E+02	5.282E+01	3.209E+01	2.451E+01	1.928E+01	1.521E+01	1.152E+01

CUMULATIVE TABLE TOTALS

AP+FP	6.858E+05	3.596E+03	1.678E+03	9.287E+02	5.994E+02	5.291E+01	3.213E+01	2.452E+01	1.929E+01	1.521E+01	1.152E+01

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ACT+FP     7.317E+05 3.581E+03 1.670E+03 9.257E+02 5.981E+02 5.283E+01 3.210E+01 2.451E+01 1.929E+01 1.522E+01 1.152E+01
AP+ACT+FP  7.320E+05 3.598E+03 1.678E+03 9.287E+02 5.994E+02 5.291E+01 3.214E+01 2.452E+01 1.929E+01 1.522E+01 1.152E+01
                                                                                OUTPUT UNIT =  6                      PAGE  101
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:26
                              PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240
                          (ALPHA,N) NEUTRON SOURCE, NEUTRONS/SEC
BASIS=  PUREX 1WW SIMULANT  FROM 1 MTU FUEL @ 6% PU-240
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
 U234     2.404E+02 2.404E+02 2.404E-01 2.405E-01 2.405E-01 2.405E-01 2.406E-01 2.407E-01 2.408E-01 2.409E-01 2.409E-01
 U238     1.045E+02 1.045E+02 1.045E-01 1.045E-01 1.045E-01 1.045E-01 1.045E-01 1.045E-01 1.045E-01 1.045E-01 1.045E-01
PU238     6.260E+03 6.683E+03 6.674E+00 6.664E+00 6.653E+00 6.451E+00 6.201E+00 5.730E+00 5.295E+00 4.893E+00 4.457E+00
PU239     4.200E+04 4.376E+04 4.376E+01 4.376E+01 4.376E+01 4.376E+01 4.375E+01 4.374E+01 4.373E+01 4.371E+01 4.370E+01
PU240     1.089E+04 1.089E+04 1.089E+01 1.089E+01 1.089E+01 1.089E+01 1.088E+01 1.087E+01 1.086E+01 1.085E+01 1.083E+01
AM241     1.028E+02 4.318E+02 7.567E-01 1.078E+00 1.395E+00 5.963E+00 1.052E+01 1.679E+01 2.051E+01 2.264E+01 2.393E+01
CM242     5.653E+03 4.004E+03 2.717E+00 1.844E+00 1.252E+00 4.127E-03 1.564E-03 1.492E-03 1.426E-03 1.362E-03 1.291E-03

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TOTALS
TABLE     6.529E+04 6.616E+04 6.526E+01 6.469E+01 6.439E+01 6.746E+01 7.174E+01 7.752E+01 8.077E+01 8.248E+01 8.331E+01
ACTUAL    6.529E+04 6.616E+04 6.526E+01 6.469E+01 6.439E+01 6.746E+01 7.174E+01 7.752E+01 8.077E+01 8.248E+01 8.331E+01
                                                                                OUTPUT UNIT =  6                      PAGE  102
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:26
                              PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240
                          SPONTANEOUS FISSION NEUTRON SOURCE, NEUTRONS/SEC
                        BASIS=  PUREX 1WW SIMULANT  FROM 1 MTU FUEL @ 6% PU-240
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
 U238     1.254E+04 1.254E+04 1.254E+01 1.254E+01 1.254E+01 1.254E+01 1.254E+01 1.254E+01 1.254E+01 1.254E+01 1.254E+01
PU238     1.021E+03 1.090E+03 1.088E+00 1.087E+00 1.085E+00 1.052E+00 1.011E+00 9.345E-01 8.635E-01 7.979E-01 7.269E-01
PU240     5.742E+04 5.742E+04 5.742E+01 5.741E+01 5.741E+01 5.739E+01 5.736E+01 5.730E+01 5.724E+01 5.718E+01 5.710E+01
PU242     3.496E+02 3.496E+02 3.496E-01 3.496E-01 3.496E-01 3.496E-01 3.496E-01 3.496E-01 3.496E-01 3.496E-01 3.496E-01
CM242     2.743E+04 1.943E+04 1.318E+01 8.948E+00 6.074E+00 2.003E-02 7.586E-03 7.240E-03 6.917E-03 6.609E-03 6.263E-03
CM244     4.260E+02 4.233E+02 4.192E-01 4.153E-01 4.113E-01 3.529E-01 2.914E-01 1.988E-01 1.356E-01 9.244E-02 5.885E-02

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TOTALS
TABLE     9.921E+04 9.127E+04 8.502E+01 8.078E+01 7.790E+01 7.173E+01 7.159E+01 7.136E+01 7.117E+01 7.100E+01 7.082E+01
ACTUAL    9.921E+04 9.127E+04 8.502E+01 8.078E+01 7.790E+01 7.173E+01 7.159E+01 7.136E+01 7.117E+01 7.100E+01 7.082E+01

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OVERALL
TOTALS
TABLE     1.645E+05 1.574E+05 1.503E+02 1.455E+02 1.423E+02 1.392E+02 1.433E+02 1.489E+02 1.519E+02 1.535E+02 1.541E+02
ACTUAL    1.645E+05 1.574E+05 1.503E+02 1.455E+02 1.423E+02 1.392E+02 1.433E+02 1.489E+02 1.519E+02 1.535E+02 1.541E+02
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OUTPUT UNIT = 6 PAGE 103

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

PHOTON SPECTRUM FOR ACTIVATION PRODUCTS

PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240
POWER= 1.00 MW, BURNUP= 1. MWD, FLUX= 1.00E+00 N/CM**2-SEC

18 GROUP PHOTON RELEASE RATES, PHOTONS/SECOND
BASIS= PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

EMEAN	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
1.000E-02	5.865E+13	1.384E+12	5.722E+11	2.962E+11	1.805E+11	1.172E+10	3.021E+09	3.332E+08	7.114E+07	3.825E+07	3.202E+07
2.500E-02	3.741E+13	4.208E+12	2.875E+12	2.151E+12	1.654E+12	1.855E+11	4.892E+10	4.011E+09	3.328E+08	2.948E+07	3.186E+06
3.750E-02	5.374E+12	1.704E+11	1.460E+11	1.311E+11	1.207E+11	4.363E+10	1.250E+10	1.030E+09	8.655E+07	8.080E+06	1.088E+06
5.750E-02	1.203E+13	4.176E+11	1.072E+11	3.101E+10	1.091E+10	2.129E+08	7.090E+07	1.299E+07	3.264E+06	1.125E+06	5.482E+05
8.500E-02	5.687E+12	1.928E+10	7.857E+09	3.388E+09	1.586E+09	8.242E+07	2.993E+07	5.190E+06	1.203E+06	3.487E+05	1.212E+05
1.250E-01	6.907E+12	5.934E+11	1.378E+11	3.415E+10	1.025E+10	1.002E+09	2.891E+08	2.472E+07	2.310E+06	2.691E+05	3.595E+04
2.250E-01	3.598E+13	4.439E+11	1.167E+11	7.512E+10	5.653E+10	1.535E+10	4.394E+09	3.602E+08	2.959E+07	2.450E+06	1.343E+05
3.750E-01	2.025E+13	5.716E+11	3.295E+11	2.761E+11	2.532E+11	9.236E+10	2.643E+10	2.165E+09	1.776E+08	1.462E+07	7.805E+05
5.750E-01	5.170E+14	1.359E+12	6.195E+11	4.154E+11	3.450E+11	1.187E+11	3.396E+10	2.781E+09	2.277E+08	1.865E+07	9.735E+05
8.500E-01	6.232E+14	1.098E+14	4.713E+13	1.861E+13	7.133E+12	2.784E+09	5.411E+07	1.587E+06	4.234E+05	1.149E+05	2.575E+04
1.250E+00	3.540E+13	5.847E+11	5.593E+11	5.383E+11	5.192E+11	3.053E+11	1.582E+11	4.245E+10	1.139E+10	3.058E+09	6.477E+08
1.750E+00	1.047E+14	3.758E+09	1.517E+09	6.172E+08	2.513E+08	1.663E+02	2.815E+00	2.152E+00	1.696E+00	1.337E+00	1.010E+00
2.250E+00	1.157E+13	2.371E+08	9.386E+06	4.983E+06	3.491E+06	1.618E+06	8.384E+05	2.250E+05	6.039E+04	1.621E+04	3.433E+03
2.750E+00	2.864E+12	2.218E+04	1.353E+04	1.032E+04	9.022E+03	5.008E+03	2.594E+03	6.962E+02	1.869E+02	5.015E+01	1.062E+01
3.500E+00	1.378E+11	8.250E-15	8.250E-15	8.250E-15	8.250E-15	8.250E-15	8.250E-15	8.250E-15	8.250E-15	8.250E-15	8.250E-15
5.000E+00	1.890E+07	2.456E-15	2.456E-15	2.456E-15	2.456E-15	2.456E-15	2.456E-15	2.456E-15	2.456E-15	2.456E-15	2.456E-15
7.000E+00	4.348E+06	1.594E-16	1.594E-16	1.594E-16	1.594E-16	1.594E-16	1.594E-16	1.594E-16	1.594E-16	1.594E-16	1.594E-16
9.500E+00	2.339E+05	1.008E-17	1.008E-17	1.008E-17	1.008E-17	1.008E-17	1.008E-17	1.008E-17	1.008E-17	1.008E-17	1.008E-17
TOTAL	1.477E+15	1.195E+14	5.260E+13	2.256E+13	1.029E+13	7.767E+11	2.879E+11	5.318E+10	1.233E+10	3.171E+09	6.866E+08
MEV/SEC	1.108E+15	9.536E+13	4.137E+13	1.692E+13	7.069E+12	4.969E+11	2.300E+11	5.571E+10	1.446E+10	3.841E+09	8.110E+08

18 GROUP SPECIFIC ENERGY RELEASE RATES, MEV/WATT-SEC
BASIS= PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

EMEAN	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
1.000E-02	5.865E+05	1.384E+04	5.722E+03	2.962E+03	1.805E+03	1.172E+02	3.021E+01	3.332E+00	7.114E-01	3.825E-01	3.202E-01
2.500E-02	9.351E+05	1.052E+05	7.187E+04	5.376E+04	4.135E+04	4.637E+03	1.223E+03	1.003E+02	8.319E+00	7.370E-01	7.965E-02
3.750E-02	2.015E+05	6.388E+03	5.474E+03	4.916E+03	4.525E+03	1.636E+03	4.687E+02	3.863E+01	3.245E+00	3.030E-01	4.081E-02
5.750E-02	6.916E+05	2.401E+04	6.163E+03	1.783E+03	6.274E+02	1.224E+01	4.077E+00	7.471E-01	1.877E-01	6.470E-02	3.152E-02
8.500E-02	4.834E+05	1.639E+03	6.678E+02	2.880E+02	1.348E+02	7.006E+00	2.544E+00	4.412E-01	1.022E-01	2.964E-02	1.030E-02

1.250E-01	8.634E+05	7.418E+04	1.722E+04	4.269E+03	1.281E+03	1.252E+02	3.614E+01	3.090E+00	2.888E-01	3.363E-02	4.493E-03
2.250E-01	8.097E+06	9.988E+04	2.625E+04	1.690E+04	1.272E+04	3.455E+03	9.886E+02	8.104E+01	6.658E+00	5.513E-01	3.023E-02
3.750E-01	7.593E+06	2.144E+05	1.236E+05	1.035E+05	9.493E+04	3.463E+04	9.912E+03	8.120E+02	6.659E+01	5.481E+00	2.927E-01
5.750E-01	2.973E+08	7.815E+05	3.562E+05	2.389E+05	1.984E+05	6.825E+04	1.953E+04	1.599E+03	1.309E+02	1.072E+01	5.598E-01
8.500E-01	5.297E+08	9.330E+07	4.006E+07	1.582E+07	6.063E+06	2.366E+03	4.599E+01	1.349E+00	3.599E-01	9.770E-02	2.189E-02
1.250E+00	4.425E+07	7.309E+05	6.991E+05	6.729E+05	6.491E+05	3.817E+05	1.977E+05	5.307E+04	1.424E+04	3.822E+03	8.096E+02
1.750E+00	1.832E+08	6.577E+03	2.655E+03	1.080E+03	4.397E+02	2.911E-04	4.927E-06	3.766E-06	2.968E-06	2.340E-06	1.767E-06
2.250E+00	2.603E+07	5.334E+02	2.112E+01	1.121E+01	7.856E+00	3.641E+00	1.886E+00	5.063E-01	1.359E-01	3.647E-02	7.724E-03
2.750E+00	7.877E+06	6.101E-02	3.722E-02	2.839E-02	2.481E-02	1.377E-02	7.134E-03	1.915E-03	5.139E-04	1.379E-04	2.921E-05
3.500E+00	4.824E+05	2.888E-20	2.888E-20	2.888E-20	2.888E-20	2.888E-20	2.888E-20	2.888E-20	2.888E-20	2.888E-20	2.888E-20
5.000E+00	9.451E+01	1.228E-20	1.228E-20	1.228E-20	1.228E-20	1.228E-20	1.228E-20	1.228E-20	1.228E-20	1.228E-20	1.228E-20
7.000E+00	3.044E+01	1.116E-21	1.116E-21	1.116E-21	1.116E-21	1.116E-21	1.116E-21	1.116E-21	1.116E-21	1.116E-21	1.116E-21
9.500E+00	2.223E+00	9.575E-23	9.575E-23	9.575E-23	9.575E-23	9.575E-23	9.575E-23	9.575E-23	9.575E-23	9.575E-23	9.575E-23
TOTAL	1.108E+09	9.536E+07	4.137E+07	1.692E+07	7.069E+06	4.969E+05	2.300E+05	5.571E+04	1.446E+04	3.841E+03	8.110E+02
GAM POW	1.777E+02	1.529E+01	6.632E+00	2.712E+00	1.133E+00	7.966E-02	3.686E-02	8.930E-03	2.318E-03	6.157E-04	1.300E-04

OUTPUT UNIT = 6

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

PRINCIPAL PHOTON SOURCES IN GROUP 1,PHOTONS/SEC
MEAN ENERGY= 0.010MEV

NUCLIDE	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y

PRINCIPAL PHOTON SOURCES IN GROUP 2,PHOTONS/SEC
MEAN ENERGY= 0.025MEV

NUCLIDE	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y

PRINCIPAL PHOTON SOURCES IN GROUP 3,PHOTONS/SEC
MEAN ENERGY= 0.038MEV

NUCLIDE	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y

PRINCIPAL PHOTON SOURCES IN GROUP 4,PHOTONS/SEC
MEAN ENERGY= 0.058MEV

NUCLIDE	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y

```
                PRINCIPAL PHOTON SOURCES IN GROUP  5,PHOTONS/SEC
                 MEAN ENERGY= 0.085MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP  6,PHOTONS/SEC
                 MEAN ENERGY= 0.125MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP  7,PHOTONS/SEC
                 MEAN ENERGY= 0.225MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP  8,PHOTONS/SEC
                 MEAN ENERGY= 0.375MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
                                                                          OUTPUT UNIT =  6                          PAGE  105
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:26

                PRINCIPAL PHOTON SOURCES IN GROUP  9,PHOTONS/SEC
                 MEAN ENERGY= 0.575MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 10,PHOTONS/SEC
                 MEAN ENERGY= 0.850MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 11,PHOTONS/SEC
                 MEAN ENERGY= 1.250MEV

NUCLIDE
```

```
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
CO 60     5.894E+11 5.703E+11 5.519E+11 5.340E+11 5.168E+11 3.053E+11 1.582E+11 4.245E+10 1.139E+10 3.058E+09 6.477E+08

                  PRINCIPAL PHOTON SOURCES IN GROUP 12,PHOTONS/SEC
                   MEAN ENERGY= 1.750MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                  PRINCIPAL PHOTON SOURCES IN GROUP 13,PHOTONS/SEC
                   MEAN ENERGY= 2.250MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
CO 60     3.124E+06 3.023E+06 2.925E+06 2.830E+06 2.739E+06 1.618E+06 8.384E+05 2.250E+05 6.039E+04 1.621E+04 3.433E+03

                  PRINCIPAL PHOTON SOURCES IN GROUP 14,PHOTONS/SEC
                   MEAN ENERGY= 2.750MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
CO 60     9.666E+03 9.353E+03 9.051E+03 8.758E+03 8.475E+03 5.008E+03 2.594E+03 6.962E+02 1.869E+02 5.015E+01 1.062E+01

                  PRINCIPAL PHOTON SOURCES IN GROUP 15,PHOTONS/SEC
                   MEAN ENERGY= 3.500MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                  PRINCIPAL PHOTON SOURCES IN GROUP 16,PHOTONS/SEC
                   MEAN ENERGY= 5.000MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
PB204     2.456E-15 2.456E-15 2.456E-15 2.456E-15 2.456E-15 2.456E-15 2.456E-15 2.456E-15 2.456E-15 2.456E-15 2.456E-15
                                                                                OUTPUT UNIT =  6                          PAGE  106
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:26

                  PRINCIPAL PHOTON SOURCES IN GROUP 17,PHOTONS/SEC
                   MEAN ENERGY= 7.000MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
```

```
PB204      1.594E-16 1.594E-16 1.594E-16 1.594E-16 1.594E-16 1.594E-16 1.594E-16 1.594E-16 1.594E-16 1.594E-16 1.594E-16

                PRINCIPAL PHOTON SOURCES IN GROUP 18,PHOTONS/SEC
                 MEAN ENERGY= 9.500MEV

NUCLIDE
           0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
                                                                                OUTPUT UNIT =  6                          PAGE  107
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:26
          PHOTON SPECTRUM FOR ACTINIDES + DAUGHTERS

                          PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240
                             POWER=   1.00 MW, BURNUP=      1. MWD, FLUX= 1.00E+00 N/CM**2-SEC

                           18 GROUP PHOTON RELEASE RATES, PHOTONS/SECOND
                           BASIS=  PUREX 1WW SIMULANT  FROM 1 MTU FUEL @ 6% PU-240
 EMEAN
           0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
1.000E-02  3.676E+17 5.691E+11 2.779E+09 4.596E+08 2.871E+08 3.048E+08 3.418E+08 3.919E+08 4.206E+08 4.361E+08 4.443E+08
2.500E-02  1.847E+15 1.010E+10 2.286E+08 1.015E+07 2.290E+06 6.105E+06 1.055E+07 1.666E+07 2.028E+07 2.236E+07 2.363E+07
3.750E-02  1.861E+16 1.002E+09 8.047E+07 6.195E+06 8.835E+05 8.121E+05 1.171E+06 1.663E+06 1.951E+06 2.114E+06 2.210E+06
5.750E-02  7.744E+15 1.494E+11 6.662E+08 6.410E+07 2.504E+07 8.712E+07 1.525E+08 2.424E+08 2.956E+08 3.261E+08 3.447E+08
8.500E-02  2.013E+17 6.728E+10 1.064E+09 7.646E+07 7.198E+06 1.468E+06 1.469E+06 1.493E+06 1.508E+06 1.516E+06 1.520E+06
1.250E-01  1.596E+17 1.161E+11 1.233E+08 9.878E+06 1.447E+06 7.258E+05 7.246E+05 7.223E+05 7.195E+05 7.163E+05 7.123E+05
2.250E-01  1.110E+17 8.768E+10 9.113E+07 7.362E+06 1.314E+06 6.980E+05 6.426E+05 5.982E+05 5.739E+05 5.590E+05 5.486E+05
3.750E-01  1.106E+16 5.460E+09 1.795E+08 1.669E+07 1.851E+06 3.386E+05 3.384E+05 3.405E+05 3.426E+05 3.445E+05 3.465E+05
5.750E-01  1.721E+15 3.550E+07 2.982E+07 2.288E+06 2.883E+05 6.050E+04 4.311E+04 4.151E+04 4.260E+04 4.334E+04 4.392E+04
8.500E-01  3.121E+15 7.145E+07 7.069E+07 5.226E+06 4.867E+05 8.321E+04 7.483E+04 7.381E+04 7.415E+04 7.438E+04 7.455E+04
1.250E+00  1.052E+14 6.676E+07 6.676E+07 4.893E+06 4.183E+05 6.761E+04 6.720E+04 6.729E+04 6.746E+04 6.764E+04 6.785E+04
1.750E+00  5.886E+11 1.139E+07 1.138E+07 8.421E+05 7.938E+04 1.355E+04 1.198E+04 1.181E+04 1.193E+04 1.207E+04 1.223E+04
2.250E+00  2.551E+04 2.388E+04 5.580E+01 2.683E+01 2.520E+01 4.131E+01 6.331E+01 1.075E+02 1.520E+02 1.968E+02 2.501E+02
2.750E+00  3.845E+04 7.673E+04 1.031E+05 9.447E+04 8.635E+04 2.097E+04 4.370E+03 1.222E+03 1.050E+03 9.554E+02 8.553E+02
3.500E+00  1.304E+04 1.219E+04 1.150E+01 1.104E+01 1.073E+01 1.014E+01 1.022E+01 1.038E+01 1.052E+01 1.066E+01 1.082E+01
5.000E+00  5.528E+03 5.161E+03 4.867E+00 4.668E+00 4.533E+00 4.250E+00 4.252E+00 4.252E+00 4.249E+00 4.243E+00 4.236E+00
7.000E+00  6.284E+02 5.859E+02 5.521E-01 5.292E-01 5.136E-01 4.808E-01 4.806E-01 4.800E-01 4.793E-01 4.785E-01 4.775E-01
9.500E+00  7.184E+01 6.691E+01 6.301E-02 6.036E-02 5.857E-02 5.474E-02 5.469E-02 5.458E-02 5.448E-02 5.438E-02 5.426E-02

  TOTAL    8.837E+17 1.006E+12 5.391E+09 6.637E+08 3.285E+08 4.023E+08 5.094E+08 6.560E+08 7.418E+08 7.900E+08 8.181E+08

MEV/SEC    7.482E+16 5.676E+10 4.494E+08 3.802E+07 7.662E+06 9.011E+06 1.319E+07 1.901E+07 2.245E+07 2.442E+07 2.561E+07

                           18 GROUP SPECIFIC ENERGY RELEASE RATES, MEV/WATT-SEC
                           BASIS=  PUREX 1WW SIMULANT  FROM 1 MTU FUEL @ 6% PU-240
```

EMEAN

	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
1.000E-02	3.676E+09	5.691E+03	2.779E+01	4.596E+00	2.871E+00	3.048E+00	3.418E+00	3.919E+00	4.206E+00	4.361E+00	4.443E+00
2.500E-02	4.619E+07	2.525E+02	5.714E+00	2.537E-01	5.726E-02	1.526E-01	2.637E-01	4.166E-01	5.071E-01	5.591E-01	5.906E-01
3.750E-02	6.980E+08	3.756E+01	3.018E+00	2.323E-01	3.313E-02	3.045E-02	4.390E-02	6.235E-02	7.316E-02	7.928E-02	8.287E-02
5.750E-02	4.453E+08	8.590E+03	3.831E+01	3.686E+00	1.440E+00	5.009E+00	8.767E+00	1.394E+01	1.700E+01	1.875E+01	1.982E+01
8.500E-02	1.711E+10	5.719E+03	9.044E+01	6.499E+00	6.118E-01	1.248E-01	1.249E-01	1.269E-01	1.282E-01	1.289E-01	1.292E-01
1.250E-01	1.995E+10	1.451E+04	1.541E+01	1.235E+00	1.808E-01	9.073E-02	9.058E-02	9.029E-02	8.993E-02	8.953E-02	8.904E-02
2.250E-01	2.497E+10	1.973E+04	2.050E+01	1.656E+00	2.956E-01	1.571E-01	1.446E-01	1.346E-01	1.291E-01	1.258E-01	1.234E-01
3.750E-01	4.147E+09	2.047E+03	6.730E+01	6.259E+00	6.941E-01	1.270E-01	1.269E-01	1.277E-01	1.285E-01	1.292E-01	1.300E-01
5.750E-01	9.898E+08	2.041E+01	1.715E+01	1.316E+00	1.658E-01	3.479E-02	2.479E-02	2.387E-02	2.449E-02	2.492E-02	2.525E-02
8.500E-01	2.653E+09	6.073E+01	6.009E+01	4.442E+00	4.137E-01	7.073E-02	6.361E-02	6.274E-02	6.303E-02	6.323E-02	6.337E-02
1.250E+00	1.315E+08	8.345E+01	8.345E+01	6.116E+00	5.229E-01	8.451E-02	8.400E-02	8.411E-02	8.432E-02	8.455E-02	8.481E-02
1.750E+00	1.030E+06	1.993E+01	1.991E+01	1.474E+00	1.389E-01	2.371E-02	2.096E-02	2.066E-02	2.089E-02	2.112E-02	2.141E-02
2.250E+00	5.739E-02	5.373E-02	1.255E-04	6.036E-05	5.671E-05	9.294E-05	1.424E-04	2.419E-04	3.421E-04	4.429E-04	5.628E-04
2.750E+00	1.058E-01	2.110E-01	2.836E-01	2.598E-01	2.375E-01	5.766E-02	1.202E-02	3.360E-03	2.889E-03	2.627E-03	2.352E-03
3.500E+00	4.563E-02	4.265E-02	4.027E-05	3.865E-05	3.756E-05	3.548E-05	3.578E-05	3.633E-05	3.683E-05	3.731E-05	3.787E-05
5.000E+00	2.764E-02	2.580E-02	2.434E-05	2.334E-05	2.266E-05	2.125E-05	2.126E-05	2.126E-05	2.124E-05	2.122E-05	2.118E-05
7.000E+00	4.399E-03	4.101E-03	3.865E-06	3.704E-06	3.596E-06	3.366E-06	3.364E-06	3.360E-06	3.355E-06	3.349E-06	3.343E-06
9.500E+00	6.824E-04	6.357E-04	5.986E-07	5.734E-07	5.564E-07	5.201E-07	5.195E-07	5.185E-07	5.175E-07	5.166E-07	5.155E-07
TOTAL	7.482E+10	5.676E+04	4.494E+02	3.802E+01	7.662E+00	9.011E+00	1.319E+01	1.901E+01	2.245E+01	2.442E+01	2.561E+01
GAM POW	1.199E+04	9.099E-03	7.203E-05	6.095E-06	1.228E-06	1.444E-06	2.114E-06	3.047E-06	3.599E-06	3.915E-06	4.105E-06

OUTPUT UNIT = 6 PAGE 108

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

PRINCIPAL PHOTON SOURCES IN GROUP 1,PHOTONS/SEC
MEAN ENERGY= 0.010MEV

NUCLIDE

0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y

PRINCIPAL PHOTON SOURCES IN GROUP 2,PHOTONS/SEC
MEAN ENERGY= 0.025MEV

NUCLIDE

0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y

PRINCIPAL PHOTON SOURCES IN GROUP 3,PHOTONS/SEC
MEAN ENERGY= 0.038MEV

NUCLIDE

```
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                  PRINCIPAL PHOTON SOURCES IN GROUP  4,PHOTONS/SEC
                   MEAN ENERGY= 0.058MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                  PRINCIPAL PHOTON SOURCES IN GROUP  5,PHOTONS/SEC
                   MEAN ENERGY= 0.085MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                  PRINCIPAL PHOTON SOURCES IN GROUP  6,PHOTONS/SEC
                   MEAN ENERGY= 0.125MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                  PRINCIPAL PHOTON SOURCES IN GROUP  7,PHOTONS/SEC
                   MEAN ENERGY= 0.225MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                  PRINCIPAL PHOTON SOURCES IN GROUP  8,PHOTONS/SEC
                   MEAN ENERGY= 0.375MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
                                                                          OUTPUT UNIT =  6                          PAGE  109
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:26

                  PRINCIPAL PHOTON SOURCES IN GROUP  9,PHOTONS/SEC
                   MEAN ENERGY= 0.575MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                  PRINCIPAL PHOTON SOURCES IN GROUP 10,PHOTONS/SEC
                   MEAN ENERGY= 0.850MEV
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```
NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                  PRINCIPAL PHOTON SOURCES IN GROUP 11,PHOTONS/SEC
                   MEAN ENERGY= 1.250MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                  PRINCIPAL PHOTON SOURCES IN GROUP 12,PHOTONS/SEC
                   MEAN ENERGY= 1.750MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                  PRINCIPAL PHOTON SOURCES IN GROUP 13,PHOTONS/SEC
                   MEAN ENERGY= 2.250MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                  PRINCIPAL PHOTON SOURCES IN GROUP 14,PHOTONS/SEC
                   MEAN ENERGY= 2.750MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                  PRINCIPAL PHOTON SOURCES IN GROUP 15,PHOTONS/SEC
                   MEAN ENERGY= 3.500MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                  PRINCIPAL PHOTON SOURCES IN GROUP 16,PHOTONS/SEC
                   MEAN ENERGY= 5.000MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
                                                                          OUTPUT UNIT =  6                          PAGE  110
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:26

                  PRINCIPAL PHOTON SOURCES IN GROUP 17,PHOTONS/SEC
                   MEAN ENERGY= 7.000MEV
```

```
NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                   PRINCIPAL PHOTON SOURCES IN GROUP 18,PHOTONS/SEC
                    MEAN ENERGY= 9.500MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
                                                                          OUTPUT UNIT =  6                          PAGE  111
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:26
             PHOTON SPECTRUM FOR FISSION PRODUCTS

                              PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240
                                 POWER=   1.00 MW, BURNUP=      1. MWD, FLUX= 1.00E+00 N/CM**2-SEC

                              18 GROUP PHOTON RELEASE RATES, PHOTONS/SECOND
                              BASIS=  PUREX 1WW SIMULANT  FROM 1 MTU FUEL @ 6% PU-240
 EMEAN
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
1.000E-02 1.054E+17 6.746E+14 3.437E+14 2.265E+14 1.684E+14 1.356E+13 7.262E+12 5.491E+12 4.303E+12 3.386E+12 2.556E+12
2.500E-02 4.999E+16 3.193E+14 1.130E+14 6.491E+13 4.728E+13 6.838E+12 2.611E+12 1.174E+12 8.521E+11 6.650E+11 5.015E+11
3.750E-02 5.996E+16 8.343E+14 3.773E+14 2.615E+14 2.047E+14 1.554E+13 8.168E+12 6.066E+12 4.752E+12 3.753E+12 2.849E+12
5.750E-02 2.253E+16 1.240E+14 6.842E+13 4.676E+13 3.542E+13 2.720E+12 1.395E+12 1.041E+12 8.083E+11 6.333E+11 4.768E+11
8.500E-02 3.009E+16 1.489E+14 9.692E+13 7.338E+13 5.777E+13 3.074E+12 1.060E+12 6.822E+11 5.044E+11 3.892E+11 2.918E+11
1.250E-01 6.055E+16 1.703E+15 4.946E+14 2.709E+14 1.988E+14 6.730E+12 9.217E+11 5.284E+11 3.685E+11 2.727E+11 1.983E+11
2.250E-01 1.838E+17 9.499E+13 4.604E+13 3.063E+13 2.297E+13 1.933E+12 8.720E+11 5.862E+11 4.495E+11 3.510E+11 2.637E+11
3.750E-01 1.366E+17 1.012E+14 3.085E+13 2.236E+13 1.815E+13 3.076E+12 9.985E+11 3.162E+11 2.106E+11 1.626E+11 1.225E+11
5.750E-01 2.697E+17 2.281E+15 7.068E+14 3.832E+14 2.967E+14 1.323E+14 1.067E+14 8.325E+13 6.599E+13 5.237E+13 3.987E+13
8.500E-01 3.029E+17 1.121E+16 4.790E+15 1.897E+15 7.331E+14 3.908E+12 9.130E+11 1.757E+11 8.774E+10 5.311E+10 3.262E+10
1.250E+00 1.878E+17 4.293E+13 2.524E+13 1.844E+13 1.453E+13 1.188E+12 3.341E+11 1.357E+11 6.745E+10 3.592E+10 1.881E+10
1.750E+00 6.670E+16 1.467E+14 2.811E+12 1.478E+12 1.220E+12 7.990E+10 1.247E+10 5.756E+09 3.388E+09 2.158E+09 1.382E+09
2.250E+00 3.715E+16 2.590E+13 1.895E+13 1.517E+13 1.216E+13 3.578E+11 4.639E+09 1.866E+06 4.516E+05 3.553E+05 2.683E+05
2.750E+00 1.591E+16 5.578E+12 1.178E+11 6.633E+10 5.532E+10 3.326E+09 1.034E+08 1.050E+05 1.083E+02 1.118E-01 4.515E-05
3.500E+00 8.882E+15 5.737E+10 1.065E+10 8.703E+09 7.326E+09 4.681E+08 1.504E+07 1.551E+04 1.604E+01 1.656E-02 1.358E-05
5.000E+00 4.720E+15 1.955E-06 1.994E-06 2.031E-06 2.066E-06 2.395E-06 2.523E-06 2.567E-06 2.570E-06 2.570E-06 2.570E-06
7.000E+00 3.802E+13 1.269E-07 1.294E-07 1.318E-07 1.340E-07 1.554E-07 1.637E-07 1.665E-07 1.667E-07 1.668E-07 1.668E-07
9.500E+00 3.739E+09 8.021E-09 8.183E-09 8.334E-09 8.475E-09 9.826E-09 1.035E-08 1.053E-08 1.054E-08 1.055E-08 1.055E-08

  TOTAL   1.543E+18 1.771E+16 7.115E+15 3.313E+15 1.811E+15 1.913E+14 1.313E+14 9.945E+13 7.840E+13 6.207E+13 4.718E+13

MEV/SEC   1.055E+18 1.156E+16 4.674E+15 1.965E+15 8.959E+14 8.555E+13 6.389E+13 4.895E+13 3.867E+13 3.064E+13 2.330E+13
```

18 GROUP SPECIFIC ENERGY RELEASE RATES, MEV/WATT-SEC
BASIS= PUREX 1WW SIMULANT FROM 1 MTU FUEL @ 6% PU-240

EMEAN	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y
1.000E-02	1.054E+09	6.746E+06	3.437E+06	2.265E+06	1.684E+06	1.356E+05	7.262E+04	5.491E+04	4.303E+04	3.386E+04	2.556E+04
2.500E-02	1.250E+09	7.982E+06	2.825E+06	1.623E+06	1.182E+06	1.709E+05	6.527E+04	2.934E+04	2.130E+04	1.662E+04	1.254E+04
3.750E-02	2.249E+09	3.129E+07	1.415E+07	9.808E+06	7.676E+06	5.827E+05	3.063E+05	2.275E+05	1.782E+05	1.408E+05	1.069E+05
5.750E-02	1.296E+09	7.129E+06	3.934E+06	2.689E+06	2.036E+06	1.564E+05	8.020E+04	5.984E+04	4.648E+04	3.641E+04	2.742E+04
8.500E-02	2.558E+09	1.266E+07	8.238E+06	6.237E+06	4.911E+06	2.613E+05	9.014E+04	5.799E+04	4.287E+04	3.308E+04	2.480E+04
1.250E-01	7.568E+09	2.129E+08	6.182E+07	3.386E+07	2.485E+07	8.413E+05	1.152E+05	6.605E+04	4.606E+04	3.408E+04	2.479E+04
2.250E-01	4.136E+10	2.137E+07	1.036E+07	6.892E+06	5.169E+06	4.349E+05	1.962E+05	1.319E+05	1.011E+05	7.898E+04	5.933E+04
3.750E-01	5.121E+10	3.795E+07	1.157E+07	8.384E+06	6.807E+06	1.154E+06	3.744E+05	1.186E+05	7.896E+04	6.096E+04	4.593E+04
5.750E-01	1.551E+11	1.311E+09	4.064E+08	2.204E+08	1.706E+08	7.605E+07	6.137E+07	4.787E+07	3.795E+07	3.011E+07	2.292E+07
8.500E-01	2.575E+11	9.528E+09	4.072E+09	1.613E+09	6.232E+08	3.322E+06	7.760E+05	1.493E+05	7.458E+04	4.515E+04	2.772E+04
1.250E+00	2.347E+11	5.366E+07	3.155E+07	2.305E+07	1.816E+07	1.485E+06	4.176E+05	1.696E+05	8.431E+04	4.490E+04	2.351E+04
1.750E+00	1.167E+11	2.567E+08	4.918E+06	2.586E+06	2.135E+06	1.398E+05	2.183E+04	1.007E+04	5.929E+03	3.776E+03	2.418E+03
2.250E+00	8.358E+10	5.827E+07	4.264E+07	3.414E+07	2.736E+07	8.051E+05	1.044E+04	4.198E+00	1.016E+00	7.994E-01	6.037E-01
2.750E+00	4.375E+10	1.534E+07	3.239E+05	1.824E+05	1.521E+05	9.147E+03	2.845E+02	2.887E-01	2.979E-04	3.073E-07	1.242E-10
3.500E+00	3.109E+10	2.008E+05	3.728E+04	3.046E+04	2.564E+04	1.638E+03	5.262E+01	5.430E-02	5.615E-05	5.796E-08	4.754E-11
5.000E+00	2.360E+10	9.775E-12	9.972E-12	1.016E-11	1.033E-11	1.197E-11	1.262E-11	1.283E-11	1.285E-11	1.285E-11	1.285E-11
7.000E+00	2.662E+08	8.880E-13	9.058E-13	9.225E-13	9.382E-13	1.088E-12	1.146E-12	1.166E-12	1.167E-12	1.167E-12	1.167E-12
9.500E+00	3.552E+04	7.620E-14	7.774E-14	7.917E-14	8.051E-14	9.335E-14	9.836E-14	1.000E-13	1.002E-13	1.002E-13	1.002E-13
TOTAL	1.055E+12	1.156E+10	4.674E+09	1.965E+09	8.959E+08	8.555E+07	6.389E+07	4.895E+07	3.867E+07	3.064E+07	2.330E+07
GAM POW	1.691E+05	1.853E+03	7.492E+02	3.150E+02	1.436E+02	1.371E+01	1.024E+01	7.846E+00	6.199E+00	4.912E+00	3.736E+00

OUTPUT UNIT = 6

ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10 at 06:33:26

PRINCIPAL PHOTON SOURCES IN GROUP 1,PHOTONS/SEC
MEAN ENERGY= 0.010MEV

NUCLIDE	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y

PRINCIPAL PHOTON SOURCES IN GROUP 2,PHOTONS/SEC
MEAN ENERGY= 0.025MEV

NUCLIDE	0.00 Y	0.25 Y	0.50 Y	0.75 Y	1.00 Y	5.00 Y	10.0 Y	20.0 Y	30.0 Y	40.0 Y	51.8 Y

PRINCIPAL PHOTON SOURCES IN GROUP 3,PHOTONS/SEC
MEAN ENERGY= 0.038MEV

```
NUCLIDE
        0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP  4,PHOTONS/SEC
                 MEAN ENERGY= 0.058MEV

NUCLIDE
        0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP  5,PHOTONS/SEC
                 MEAN ENERGY= 0.085MEV

NUCLIDE
        0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP  6,PHOTONS/SEC
                 MEAN ENERGY= 0.125MEV

NUCLIDE
        0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP  7,PHOTONS/SEC
                 MEAN ENERGY= 0.225MEV

NUCLIDE
        0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP  8,PHOTONS/SEC
                 MEAN ENERGY= 0.375MEV

NUCLIDE
        0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
                                                                          OUTPUT UNIT =  6                          PAGE  113
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:26

                PRINCIPAL PHOTON SOURCES IN GROUP  9,PHOTONS/SEC
                 MEAN ENERGY= 0.575MEV

NUCLIDE
        0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 10,PHOTONS/SEC
```

```
                MEAN ENERGY= 0.850MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 11,PHOTONS/SEC
                MEAN ENERGY= 1.250MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 12,PHOTONS/SEC
                MEAN ENERGY= 1.750MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 13,PHOTONS/SEC
                MEAN ENERGY= 2.250MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 14,PHOTONS/SEC
                MEAN ENERGY= 2.750MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 15,PHOTONS/SEC
                MEAN ENERGY= 3.500MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
RH106     2.812E+10 1.227E+10 1.033E+10 8.701E+09 7.326E+09 4.681E+08 1.504E+07 1.551E+04 1.604E+01 1.655E-02 4.951E-06

                PRINCIPAL PHOTON SOURCES IN GROUP 16,PHOTONS/SEC
                MEAN ENERGY= 5.000MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
                                                                                OUTPUT UNIT =  6                          PAGE  114
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:26
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                PRINCIPAL PHOTON SOURCES IN GROUP 17,PHOTONS/SEC
                 MEAN ENERGY= 7.000MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y

                PRINCIPAL PHOTON SOURCES IN GROUP 18,PHOTONS/SEC
                 MEAN ENERGY= 9.500MEV

NUCLIDE
          0.00 Y    0.25 Y    0.50 Y    0.75 Y    1.00 Y    5.00 Y    10.0 Y    20.0 Y    30.0 Y    40.0 Y    51.8 Y
RB 94     3.739E+09 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
```

Strontium

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*************************************************************
*                                                           *
*   OOOOO  RRRR   IIIII   GGGGG   EEEEE  N    N   22222    *
*   O   O  R   R    I    G       E      NN   N  22   22   *
*   O   O  RRRR     I    G    GG EEEE   N NN N      22    *
*   O   O  R   R    I    G     G E      N   NN   22       *
*   OOOOO  R   R  IIIII   GGGGGG  EEEEE  N    N  2222222   *
*                                                           *
*                  Version 2.2 (5-4-2002)                   *
*                                                           *
*                                                           *
*                  OOOOO    AA    K   K                    *
*                  O   O   A  A   K  K                     *
*                  O   O   AAAA   KKK                      *
*                  O   O   A  A   K  K                     *
*                  OOOOO   A  A   K   K                    *
*                                                           *
*          RRRR   III   DDDDD     GGGGG    EEEEE           *
*          R   R   I    D    D   G         E               *
*          RRRR    I    D    D   G    GG   EEEE            *
*          R   R   I    D    D   G     G   E               *
*          R   R  III   DDDDD     GGGGGG   EEEEE           *
*                                                           *
*   N    N   AA   TTTTT  III  OOOOO  N    N   AA   L       *
*   NN   N  A  A    T     I   O   O  NN   N  A  A  L       *
*   N NN N  AAAA    T     I   O   O  N NN N  AAAA  L       *
*   N   NN  A  A    T     I   O   O  N   NN  A  A  L       *
*   N    N  A  A    T    III  OOOOO  N    N  A  A  LLLLL   *
*                                                           *
* L     AA  BBBB  OOOO RRRR    AA  TTTTT OOOO RRRR  Y   Y  *
* L    A  A B   B O  O R   R  A  A   T   O  O R   R  Y Y   *
* L    AAAA BBBB  O  O RRRR   AAAA   T   O  O RRRR    Y    *
* L    A  A B   B O  O R   R  A  A   T   O  O R   R   Y    *
* LLLL A  A BBBB  OOOO R   R  A  A   T   OOOO R   R   Y    *
*                                                           *
*                                                           *
*          RSIC CODE PACKAGE NUMBER (CCC-371)               *
*                                                           *
*  ORIGEN2 VERSION 2.2 (5-4-2002) UPDATES THE FOLLOWING:    *
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*                                                          *
*          CCC-371(A) - MAINFRAMES                         *
*          CCC-371(E) - ALL PCS WITH WINDOWS               *
*                                                          *
*    ORIGEN2 RUN  DATE: 07/27/10    TIME 06:33:54          *
*                                                          *
*                                                          *
************************************************************
                                                  OUTPUT UNIT =  6                    PAGE    1
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:54

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***************************** ORIGEN2:  A REVISED AND UPDATED VERSION OF THE ORIGEN COMPUTER CODE ******************************
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INTRODUCTION
   THIS TEXT IS INTENDED TO BE A BRIEF OUTLINE OF THE ORIGEN2 COMPUTER CODE, WHICH IS A REVISED AND UPDATED VERSION OF THE
   ORIGEN DOCUMENTED IN REPORT ORNL-4628 (MAY 1973).  INCLUDED HERE ARE A BRIEF DESCRIPTION OF THE FUNCTIONS OF ORIGEN2, A
   LISTING OF THE MAJOR DATA SOURCES, A LISTING OF THE PUBLISHED DOCUMENTATION CONCERNING ORIGEN2, AND AN OUTLINE OF THE ORIGEN2
   OUTPUT ORGANIZATION.  ORIGEN2 IS AVAILABLE FROM THE ORNL RADIATION SHIELDING INFORMATION CENTER (RSIC) AT THE FOLLOWING
   ADDRESS:
                          CODES COORDINATOR
                          RADIATION SHIELDING INFORMATION CENTER
                          BLDG. 6025
                          OAK RIDGE NATIONAL LABORATORY
                          OAK RIDGE, TENNESSEE  37830
                          PHONE: (615) 574-6176
   QUESTIONS CONCERNING ORIGEN2 SHOULD BE ADDRESSED TO RSIC.
DESCRIPTION
   ORIGEN2 IS A REVISION AND UPDATE OF THE ORIGEN COMPUTER CODE. SPECIFICALLY, THE INPUT, OUTPUT, CONTROL, AND DATA BASE ASPECTS
    OF ORIGEN HAVE BEEN SIGNIFICANTLY REVISED AND UPDATED TO REFLECT CURRENT INFORMATION AND NEEDS.  IT SHOULD BE NOTED THAT THE
   MATHEMATICAL METHODS USED TO SOLVE THE NUCLIDE BUILDUP, DEPLETION, AND DECAY EQUATIONS ARE ESSENTIALLY UNCHANGED FROM THAT IN
   ORIGEN.  ORIGEN2 IS A COMPUTER CODE DESIGNED TO CALCULATE THE COMPOSITION AND CHARACTERISTICS OF NUCLEAR MATERIALS AS A
   FUNCTION OF DECAY TIME AND THE CHANGES THE MATERIALS UNDERGO DURING VARIOUS FUEL CYCLE OPERATIONS.  INPUT AND OUTPUT FEATURES
   HAVE BEEN DESIGNED TO FACILITATE FLEXIBILITY IN THE TYPE OF CASES THAT CAN BE CONSIDERED AND IN CONTROLLING THE DETAIL OF THE
   OUTPUT.  FOR FURTHER INFORMATION, THE USER IS REFERRED TO THE DOCUMENTATION LISTED BELOW.
MAJOR DATA SOURCES
   VIRTUALLY ALL ASPECTS OF THE DATA INPUT TO ORIGEN2 HAVE BEEN UPDATED OR REVISED TO REFLECT CURRENT INFORMATION.  THE
   PRINCIPAL SOURCES OF CROSS SECTION DATA WERE THE ENDF/B-IV, ENDF/B-V, AND LENDL COMPILATIONS.  DECAY AND PHOTON INFORMATION
   WERE PRIMARILY BASED ON THE EVALUATED NUCLEAR STRUCTURE DATA FILE (ENSDF) AT ORNL AND ENDF/B-IV.  DATA CONCERNING REACTOR
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   AND FUEL CHARACTERISTICS WERE OBTAINED FROM REFERENCE SAFETY ANALYSIS REPORTS AND, WHERE POSSIBLE, THE COMMERCIAL REACTOR
   VENDORS.
DOCUMENTATION
   THE FOLLOWING ITEMS CONSTITUTE THE ORIGEN2 DOCUMENTATION PUBLISHED AS OF THE DATE OF THIS CODE PACKAGE:
        A.G. CROFF, "ORIGEN2 - A REVISED AND UPDATED VERSION OF THE OAK RIDGE ISOTOPE GENERATION AND DEPLETION CODE", ORNL-5621
        (JULY 1980).
        A.G. CROFF, "A USER'S MANUAL FOR THE ORIGEN2 COMPUTER CODE",  ORNL/TM-7175 (JULY 1980).
        A.G. CROFF, M.A. BJERKE, G.W.MORRISON, AND L.M. PETRIE, "REVISED URANIUM-PLUTONIUM CYCLE PWR AND BWR MODELS FOR THE
        ORIGEN COMPUTER CODE", ORNL/TM-6051 (SEPTEMBER 1978).
        A.G. CROFF AND M.A. BJERKE, "ALTERNATIVE FUEL CYCLE PWR MODELS FOR THE ORIGEN COMPUTER CODE", ORNL/TM-7005 (FEB 1980).
        A.G. CROFF, R.L. HAESE, AND N.B. GOVE, "UPDATED DECAY AND PHOTON LIBRARIES FOR THE ORIGEN CODE", ORNL/TM-6055 (FEB 1979)
        A.G. CROFF, "ORIGEN2: A REVISED AND UPDATED VERSION OF ORIGEN", TRANS. AM. NUCL. SOC., VOL. 34, P. 349-50 (JUNE 1980).
                                                                                OUTPUT UNIT =  6                    PAGE    2
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:54

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***************************** ORIGEN2:  A REVISED AND UPDATED VERSION OF THE ORIGEN COMPUTER CODE ******************************
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ORGANIZATION OF ORIGEN2 OUTPUT
   PAST EXPERIENCE HAS INDICATED THAT MANY USERS ENCOUNTER CONSIDERABLE DIFFICULTY IN FINDING THE DESIRED INFORMATION IN A
   ORIGEN2 OUT PUT WHICH IS SOMETIMES RATHER MASSIVE.  THIS SECTION IS INTENDED AS A BRIEF OUTLINE OF THE ORGANIZATION OF
   ORIGEN2 OUTPUT.  FOR DETAILS REFER TO THE USER'S MANUAL (ORNL/TM-7175, SECT. 8.2).  THE ORIGEN2 OUTPUT IS EXTREMELY
   HIERARCHICAL, AND IS ORGANIZED AS FOLLOWS:

        CARD INPUT ECHO
        MISCELLANEOUS INPUT DATA (NEUTRON YIELDS, REPROCESSING LOSSES,ELEMENT CHEMICAL TOXICITIES
        LISTING OF ORIGEN2 COMMANDS CURRENTLY BEING EXECUTED
        LISTING OF ORIGEN2 DATA LIBRARIES (IF SPECIFIED)
          DECAY LIBRARY
            ACTIVATION PRODUCTS
            ACTINIDES
            FISSION PRODUCTS
          CROSS SECTION/FISSION PRODUCT YIELD LIBRARY
            ACTIVATION PRODUCTS, ACTINIDES, AND FISSION PRODUCTS
          PHOTON LIBRARY
            ACTIVATION PRODUCTS, ACTINIDES, AND FISSION PRODUCTS
        OUTPUT 1
          REACTIVITY AND BURNUP DATA
          ACTIVATION PRODUCT TABLES
            GRAM TABLES (NUCLIDE, ELEMENT, NUCLIDE SUMMARY, ELEMENT SUMMARY)
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```
      CURIE TABLES (NUCLIDE, ELEMENT, NUCLIDE SUMMARY, ELEMENT SUMMARY)
      ETC. (DEPENDING ON THE OUTPUT OPTIONS SPECIFIED, MANY OF THESE TABLES MAY BE OMITTED
        .
        .
    ACTINIDE TABLES
      SAME SUBHEADINGS POSSIBLE AS UNDER ACTIVATION PRODUCT TABLES
    FISSION PRODUCT TABLES
      SAME SUBHEADINGS POSSIBLE AS UNDER ACTIVATION PRODUCT TABLES
    NEUTRON PRODUCTION RATE TABLES: (ALPHA,N) AND SPONTANEOUS FISSION
    PHOTON TABLES
      ACTIVATION PRODUCTS (SUMMATION AND PRINCIPAL CONTRIBUTORS)
      ACTINIDES (SUMMATION AND PRINCIPAL CONTRIBUTORS)
      FISSION PRODUCTS (SUMMATION AND PRINCIPAL CONTRIBUTORS)
  OUTPUT 2
    SAME GENERAL CONTENT AND ORDER AS OUTPUT 1
    .
    .
    .
  OUTPUT N
    SAME GENERAL CONTENT AND ORDER AS OUTPUT 1
  TABLE OF CONTENTS (UNIT 12) FOR THE ABOVE (UNIT 6) OUTPUT
  VARIABLE CROSS SECTION INFORMATION OUTPUT (UNIT 16)
  DEBUGGING AND OTHER INTERNAL INFORMATION OUTPUT (UNIT 15)

THE SCENARIO LISTED ABOVE CONSTITUTES A TYPICAL ORIGEN2 OUTPUT FOR MANY CASES.  ONE POSSIBLE MODIFICATION IS THE USE OF AN
STP COMMAND TO EXECUTE AN ADDITIONAL SET OF INSTRUCTIONS AFTER THE FIRST SET HAS BEEN EXECUTED.  IF THIS IS DONE, THE OUTPUT
WILL BEGIN WITH "MISCELLANEOUS INPUT DATA" IF NSTP=1, "ORIGEN2COMMANDS CURRENTLY BEING EXECUTED" IF NSTP=2, OR "OUTPUT 1"
FOR NSTP=3.  ANOTHER OFTEN-USED OPTION IS TO EMPLOY BOTH THE PRIMARY (UNIT 6) AND ALTERNATE (UNIT 11) OUTPUT UNITS.  IF BOTH
ARE ROUTED TO PAPER, THE TABLE OF CONTENTS FOR UNIT 11, WHICH IS ON UNIT 13, WILL IMMEDIATELY FOLLOW THE DEBUGGING AND
INTERNAL INFORMATION (UNIT 15) OUTPUT.  THE "OUTPUT N" TABLES FOR UNIT 11 WILL BE PRINTED FOLLOWING THE TABLE OF CONTENTS.
                                                                                                                  PAGE    3
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:54
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                    CARD IMAGE
UNIT    UNIT     NUMBER
   5      50          1      38 1 1.0
   5      50          2      39 1 1.0
   5      50          3      92 1 0.0
   5      50          4      94 1 0.0
   5      50          5      -1
   5      50          6      -1
   5      50          7      -1
```

```
5    50    8    TIT    SR FROM 1 MTU FUEL % 6% PU-240
5    50    9    RDA
5    50   10    RDA    READ DATA LIBRARIES
5    50   11    RDA
5    50   12    LIP    0 0 0
5    50   13    LIB    0 1 2 3 0 0 0 9 3 0 0 0
5    50   14    PHO    101 102 103 10
5    50   15    RDA
5    50   16    RDA    INPUT SR FROM 1 MTU FUEL % 6% PU-240
5    50   17    RDA
5    50   18    BAS    SR FROM 1 MTU FUEL % 6% PU-240
5    50   19    INP   -1  1 -1 -1  1  1
5    50   20    MOV   -1  1  0  1
5    50   21    RDA
5    50   22    RDA    DECAY SR FROM 1 MTU FUEL % 6% PU-240
5    50   23    RDA
5    50   24    DEC    0.250    1  2  5  2
5    50   25    DEC    0.500    2  3  5  0
5    50   26    PRO              3  3 -1  1
5    50   27    DEC    0.750    3  4  5  0
5    50   28    DEC    1.000    4  5  5  0
5    50   29    DEC    5.000    5  6  5  0
5    50   30    DEC    10.00    6  7  5  0
5    50   31    DEC    20.00    7  8  5  0
5    50   32    DEC    30.00    8  9  5  0
5    50   33    DEC    40.00    9 10  5  0
5    50   34    DEC    51.80   10 11  5  0
5    50   35    RDA
5    50   36    RDA    GENERATE OUTPUT
5    50   37    RDA
5    50   38    CUT    5 1.0E-10  7 1.0E-10  9 1.0E-10  23 1.0E-10  27 1.0  -1
5    50   39    OPTL   8 8 8 8 7  8 7 8 7 8  8 8 8 8 8  8 8 8 8 8  8 8 8 8
5    50   40    OPTA   8 8 8 8 7  8 7 8 7 8  8 8 8 8 8  8 8 8 8 8  8 8 8 8
5    50   41    OPTF   8 8 8 8 7  8 7 8 7 8  8 8 8 8 8  8 8 8 8 8  8 8 8 8
5    50   42    HED     1  0.00 Y
5    50   43    HED     2  0.25 Y
5    50   44    HED     3  0.50 Y
5    50   45    HED     4  0.75 Y
5    50   46    HED     5  1.00 Y
5    50   47    HED     6  5.00 Y
5    50   48    HED     7  10.0 Y
5    50   49    HED     8  20.0 Y
```

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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:54
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE     CARD                                  CARD IMAGE
UNIT    UNIT      NUMBER
   5      50         50      HED      9  30.0 Y
   5      50         51      HED     10  40.0 Y
   5      50         52      HED     11  51.8 Y
   5      50         53      OUT     11  1 -1  0
   5      50         54      END
   5      50         55      1   10010 3.836E+00 0 0.00
   5      50         56      1   10020 1.560E-03 0 0.00
   5      50         57      1   10030 1.546E-05 0 0.00
   5      50         58      1   10040 1.944E-17 0 0.00
   5      50         59      1   20030 7.433E-08 0 0.00
   5      50         60      1   20040 1.237E-02 0 0.00
   5      50         61      1   20060 5.174E-11 0 0.00
   5      50         62      1   30060 3.608E-04 0 0.00
   5      50         63      1   30070 1.710E-02 0 0.00
   5      50         64      1   30080 1.320E-14 0 0.00
   5      50         65      1   40080 2.946E-16 0 0.00
   5      50         66      1   40090 9.999E+00 0 0.00
   5      50         67      1   40100 2.099E-05 0 0.00
   5      50         68      1   50100 2.865E-02 0 0.00
   5      50         69      1   50110 2.362E-01 0 0.00
   5      50         70      1   50120 7.083E-16 0 0.00
   5      50         71      1   60120 5.633E+02 0 0.00
   5      50         72      1   60130 6.850E+00 0 0.00
   5      50         73      1   60140 2.739E-02 0 0.00
   5      50         74      1   60150 1.186E-16 0 0.00
   5      50         75      1   70140 8.052E+01 0 0.00
   5      50         76      1   70150 3.180E-01 0 0.00
   5      50         77      1   70160 1.339E-15 0 0.00
   5      50         78      1   90200 6.295E-13 0 0.00
   5      50         79      1  100210 1.276E-05 0 0.00
   5      50         80      1  100220 1.917E-05 0 0.00
   5      50         81      1  100230 3.020E-11 0 0.00
   5      50         82      1  110230 1.468E+00 0 0.00
   5      50         83      1  110240 3.933E-06 0 0.00
   5      50         84      1  110241 2.921E-13 0 0.00
   5      50         85      1  110250 2.491E-11 0 0.00
   5      50         86      1  120240 2.063E+01 0 0.00
   5      50         87      1  120250 2.721E+00 0 0.00
```

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  5      50        88      1  120260 3.115E+00 0 0.00
  5      50        89      1  120270 1.109E-07 0 0.00
  5      50        90      1  130270 8.054E+02 0 0.00
  5      50        91      1  130280 6.477E-07 0 0.00
  5      50        92      1  130290 5.155E-10 0 0.00
  5      50        93      1  130300 4.872E-15 0 0.00
  5      50        94      1  140280 1.207E+02 0 0.00
  5      50        95      1  140290 6.331E+00 0 0.00
  5      50        96      1  140300 4.346E+00 0 0.00
  5      50        97      1  140310 1.199E-07 0 0.00
  5      50        98      1  140320 8.569E-12 0 0.00
  5      50        99      1  150310 7.758E-05 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:54
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE   CARD                                CARD IMAGE
UNIT    UNIT    NUMBER
  5      50       100      1  150320 3.224E-10 0 0.00
  5      50       101      1  200450 1.042E-08 0 0.00
  5      50       102      1  210460 1.123E-06 0 0.00
  5      50       103      1  210470 1.316E-07 0 0.00
  5      50       104      1  210480 7.050E-09 0 0.00
  5      50       105      1  210490 1.257E-10 0 0.00
  5      50       106      1  210500 7.860E-14 0 0.00
  5      50       107      1  220460 2.906E-01 0 0.00
  5      50       108      1  220470 2.682E-01 0 0.00
  5      50       109      1  220480 2.707E+00 0 0.00
  5      50       110      1  220490 2.057E-01 0 0.00
  5      50       111      1  220500 1.992E-01 0 0.00
  5      50       112      1  220510 2.456E-10 0 0.00
  5      50       113      1  230500 8.964E-03 0 0.00
  5      50       114      1  230510 3.668E+00 0 0.00
  5      50       115      1  230520 1.006E-07 0 0.00
  5      50       116      1  230530 9.900E-12 0 0.00
  5      50       117      1  230540 5.801E-14 0 0.00
  5      50       118      1  240500 5.770E+00 0 0.00
  5      50       119      1  240510 4.443E-03 0 0.00
  5      50       120      1  240520 1.158E+02 0 0.00
  5      50       121      1  240530 1.342E+01 0 0.00
  5      50       122      1  240540 3.424E+00 0 0.00
  5      50       123      1  240550 6.827E-09 0 0.00
  5      50       124      1  250540 5.662E-04 0 0.00
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  5      50        125      1  250550 2.860E+01 0 0.00
  5      50        126      1  250560 1.052E-04 0 0.00
  5      50        127      1  250570 2.991E-11 0 0.00
  5      50        128      1  250580 6.817E-14 0 0.00
  5      50        129      1  260540 2.518E+01 0 0.00
  5      50        130      1  260550 1.981E-02 0 0.00
  5      50        131      1  260560 4.126E+02 0 0.00
  5      50        132      1  260570 1.001E+01 0 0.00
  5      50        133      1  260580 1.355E+00 0 0.00
  5      50        134      1  260590 1.208E-04 0 0.00
  5      50        135      1  270580 1.500E-03 0 0.00
  5      50        136      1  270590 7.276E-01 0 0.00
  5      50        137      1  270600 7.043E-03 0 0.00
  5      50        138      1  270601 3.965E-07 0 0.00
  5      50        139      1  270610 5.228E-09 0 0.00
  5      50        140      1  270620 2.823E-11 0 0.00
  5      50        141      1  280580 9.450E+01 0 0.00
  5      50        142      1  280590 9.690E-02 0 0.00
  5      50        143      1  280600 3.740E+01 0 0.00
  5      50        144      1  280610 1.662E+00 0 0.00
  5      50        145      1  280620 5.304E+00 0 0.00
  5      50        146      1  280630 1.500E-02 0 0.00
  5      50        147      1  280640 1.417E+00 0 0.00
  5      50        148      1  280650 4.903E-07 0 0.00
  5      50        149      1  280660 5.510E-11 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:54
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                        CARD IMAGE
UNIT    UNIT     NUMBER
  5      50        150      1  290630 5.387E+01 0 0.00
  5      50        151      1  290640 3.047E-04 0 0.00
  5      50        152      1  290650 2.475E+01 0 0.00
  5      50        153      1  290660 4.533E-07 0 0.00
  5      50        154      1  290670 3.204E-10 0 0.00
  5      50        155      1  300640 1.505E-02 0 0.00
  5      50        156      1  300650 1.033E-06 0 0.00
  5      50        157      1  300660 9.059E-03 0 0.00
  5      50        158      1  380870 6.002E-05 0 0.00
  5      50        159      1  380880 5.500E-03 0 0.00
  5      50        160      1  380890 2.089E-04 0 0.00
  5      50        161      1  380900 2.079E-08 0 0.00
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5     50     162     1  380910 4.605E-07 0 0.00
5     50     163     1  380930 2.139E-11 0 0.00
5     50     164     1  390890 2.093E-04 0 0.00
5     50     165     1  390891 1.937E-14 0 0.00
5     50     166     1  390900 5.847E-04 0 0.00
5     50     167     1  390910 5.922E-04 0 0.00
5     50     168     1  390920 1.952E-06 0 0.00
5     50     169     1  390930 1.728E-09 0 0.00
5     50     170     1  390940 1.140E-08 0 0.00
5     50     171     1  390960 9.013E-12 0 0.00
5     50     172     1  400890 3.410E-10 0 0.00
5     50     173     1  400900 3.660E+04 0 0.00
5     50     174     1  400910 8.046E+03 0 0.00
5     50     175     1  400920 1.243E+04 0 0.00
5     50     176     1  400930 9.131E-01 0 0.00
5     50     177     1  400940 1.292E+04 0 0.00
5     50     178     1  400950 1.640E-01 0 0.00
5     50     179     1  400960 2.122E+03 0 0.00
5     50     180     1  400970 5.795E-03 0 0.00
5     50     181     1  410920 2.129E-07 0 0.00
5     50     182     1  410930 4.193E-09 0 0.00
5     50     183     1  410931 6.388E-08 0 0.00
5     50     184     1  410940 1.302E-07 0 0.00
5     50     185     1  410950 6.009E-02 0 0.00
5     50     186     1  410951 6.603E-05 0 0.00
5     50     187     1  410960 1.103E-06 0 0.00
5     50     188     1  410970 4.120E-04 0 0.00
5     50     189     1  410971 5.410E-06 0 0.00
5     50     190     1  410980 1.557E-15 0 0.00
5     50     191     1  420920 5.205E-01 0 0.00
5     50     192     1  420930 1.372E-05 0 0.00
5     50     193     1  420931 1.799E-09 0 0.00
5     50     194     1  420940 3.341E-01 0 0.00
5     50     195     1  420950 6.386E-01 0 0.00
5     50     196     1  420960 6.163E-01 0 0.00
5     50     197     1  420970 9.322E-01 0 0.00
5     50     198     1  420980 9.032E-01 0 0.00
5     50     199     1  420990 1.291E-05 0 0.00
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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:54
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE     CARD                          CARD IMAGE
```

UNIT	UNIT	NUMBER					
5	50	200	1	421000	3.669E-01	0	0.00
5	50	201	1	421010	1.211E-08	0	0.00
5	50	202	1	430990	3.950E-05	0	0.00
5	50	203	1	431000	1.266E-12	0	0.00
5	50	204	1	431010	1.176E-08	0	0.00
5	50	205	1	441010	8.424E-05	0	0.00
5	50	206	1	471080	1.122E-13	0	0.00
5	50	207	1	471081	1.656E-10	0	0.00
5	50	208	1	471091	8.694E-13	0	0.00
5	50	209	1	471100	2.192E-14	0	0.00
5	50	210	1	471101	9.806E-11	0	0.00
5	50	211	1	481060	3.511E-03	0	0.00
5	50	212	1	481070	1.913E-09	0	0.00
5	50	213	1	481080	2.448E-03	0	0.00
5	50	214	1	481090	8.801E-07	0	0.00
5	50	215	1	481100	3.492E-02	0	0.00
5	50	216	1	481110	3.613E-02	0	0.00
5	50	217	1	481111	4.410E-10	0	0.00
5	50	218	1	481120	6.892E-02	0	0.00
5	50	219	1	481130	1.301E-05	0	0.00
5	50	220	1	481140	1.187E-01	0	0.00
5	50	221	1	481150	3.737E-06	0	0.00
5	50	222	1	481151	4.665E-06	0	0.00
5	50	223	1	481160	2.217E-02	0	0.00
5	50	224	1	481170	5.998E-09	0	0.00
5	50	225	1	481171	2.748E-10	0	0.00
5	50	226	1	481190	8.521E-13	0	0.00
5	50	227	1	481210	5.983E-15	0	0.00
5	50	228	1	491130	8.764E-03	0	0.00
5	50	229	1	491131	5.259E-06	0	0.00
5	50	230	1	491140	1.473E-09	0	0.00
5	50	231	1	491141	2.085E-05	0	0.00
5	50	232	1	491150	5.054E-06	0	0.00
5	50	233	1	491160	1.050E-11	0	0.00
5	50	234	1	491161	4.013E-10	0	0.00
5	50	235	1	491170	2.391E-09	0	0.00
5	50	236	1	491171	4.233E-09	0	0.00
5	50	237	1	491180	9.888E-13	0	0.00
5	50	238	1	491190	2.120E-11	0	0.00
5	50	239	1	491191	1.632E-12	0	0.00
5	50	240	1	491210	1.073E-14	0	0.00
5	50	241	1	501120	1.002E+01	0	0.00

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   5      50        242      1  501130 8.758E-03 0 0.00
   5      50        243      1  501131 1.050E-06 0 0.00
   5      50        244      1  501140 6.844E+00 0 0.00
   5      50        245      1  501150 3.889E+00 0 0.00
   5      50        246      1  501160 1.527E+02 0 0.00
   5      50        247      1  501170 8.130E+01 0 0.00
   5      50        248      1  501171 1.204E-02 0 0.00
   5      50        249      1  501180 2.569E+02 0 0.00
```



```
ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:54
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                  CARD IMAGE
UNIT    UNIT     NUMBER
   5      50        250      1  501190 9.172E+01 0 0.00
   5      50        251      1  501191 3.595E-02 0 0.00
   5      50        252      1  501200 3.484E+02 0 0.00
   5      50        253      1  501210 5.581E-04 0 0.00
   5      50        254      1  501211 2.060E-04 0 0.00
   5      50        255      1  501220 5.029E+01 0 0.00
   5      50        256      1  501230 2.745E-03 0 0.00
   5      50        257      1  501231 5.587E-09 0 0.00
   5      50        258      1  501240 6.220E+01 0 0.00
   5      50        259      1  501250 1.808E-03 0 0.00
   5      50        260      1  501251 9.995E-07 0 0.00
   5      50        261      1  511210 3.466E-02 0 0.00
   5      50        262      1  511220 1.127E-05 0 0.00
   5      50        263      1  511221 1.059E-10 0 0.00
   5      50        264      1  511230 9.753E-04 0 0.00
   5      50        265      1  511240 1.411E-06 0 0.00
   5      50        266      1  511241 2.187E-13 0 0.00
   5      50        267      1  511250 2.157E-02 0 0.00
   5      50        268      1  511260 3.327E-06 0 0.00
   5      50        269      1  511261 4.418E-10 0 0.00
   5      50        270      1  521220 1.386E-04 0 0.00
   5      50        271      1  521231 5.416E-08 0 0.00
   5      50        272      1  521250 7.268E-04 0 0.00
   5      50        273      1  521251 1.290E-04 0 0.00
   5      50        274      1  521260 9.296E-06 0 0.00
   5      50        275      1  521270 3.454E-11 0 0.00
   5      50        276      1  521271 1.584E-10 0 0.00
   5      50        277      1  711750 5.984E-04 0 0.00
   5      50        278      1  711761 3.355E-08 0 0.00
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  5      50        279      1  711770 5.425E-08 0 0.00
  5      50        280      1  711771 5.813E-10 0 0.00
  5      50        281      1  721740 2.143E-02 0 0.00
  5      50        282      1  721750 8.644E-04 0 0.00
  5      50        283      1  721760 7.295E-01 0 0.00
  5      50        284      1  721770 1.986E+00 0 0.00
  5      50        285      1  721780 4.361E+00 0 0.00
  5      50        286      1  721781 1.253E-09 0 0.00
  5      50        287      1  721790 2.317E+00 0 0.00
  5      50        288      1  721791 6.940E-07 0 0.00
  5      50        289      1  721800 5.255E+00 0 0.00
  5      50        290      1  721801 1.621E-06 0 0.00
  5      50        291      1  721810 7.537E-03 0 0.00
  5      50        292      1  721820 2.677E-05 0 0.00
  5      50        293      1  731810 9.124E-03 0 0.00
  5      50        294      1  731820 7.187E-05 0 0.00
  5      50        295      1  731821 2.147E-11 0 0.00
  5      50        296      1  731830 4.734E-06 0 0.00
  5      50        297      1  741800 4.633E-03 0 0.00
  5      50        298      1  741810 2.716E-05 0 0.00
  5      50        299      1  741820 9.318E-01 0 0.00
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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:54
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                   CARD IMAGE
UNIT    UNIT     NUMBER
  5      50        300      1  741830 5.384E-01 0 0.00
  5      50        301      1  741831 5.593E-11 0 0.00
  5      50        302      1  741840 1.133E+00 0 0.00
  5      50        303      1  741850 5.223E-04 0 0.00
  5      50        304      1  741851 1.546E-11 0 0.00
  5      50        305      1  741860 1.037E+00 0 0.00
  5      50        306      1  741870 3.458E-04 0 0.00
  5      50        307      1  741880 2.291E-05 0 0.00
  5      50        308      1  751850 3.229E-04 0 0.00
  5      50        309      1  751860 1.378E-06 0 0.00
  5      50        310      1  751870 2.425E-02 0 0.00
  5      50        311      1  751880 5.250E-06 0 0.00
  5      50        312      1  751881 9.008E-08 0 0.00
  5      50        313      1  751890 2.143E-11 0 0.00
  5      50        314      1  761860 8.636E-06 0 0.00
  5      50        315      1  761880 2.658E-04 0 0.00
```

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5      50        316      1  822040 1.012E-01 0 0.00
5      50        317      1  822050 1.488E-05 0 0.00
5      50        318      1  822060 1.752E+00 0 0.00
5      50        319      1  822070 1.627E+00 0 0.00
5      50        320      1  822080 3.861E+00 0 0.00
5      50        321      1  822090 5.185E-10 0 0.00
5      50        322      2   20040 1.004E-04 0 0.00
5      50        323      2  812070 2.008E-18 0 0.00
5      50        324      2  812080 2.300E-15 0 0.00
5      50        325      2  822090 2.451E-17 0 0.00
5      50        326      2  822100 9.479E-15 0 0.00
5      50        327      2  822110 1.553E-17 0 0.00
5      50        328      2  822120 1.357E-12 0 0.00
5      50        329      2  822140 2.699E-18 0 0.00
5      50        330      2  832100 5.838E-18 0 0.00
5      50        331      2  832110 9.164E-19 0 0.00
5      50        332      2  832120 1.287E-13 0 0.00
5      50        333      2  832130 5.756E-18 0 0.00
5      50        334      2  832140 2.004E-18 0 0.00
5      50        335      2  842100 2.091E-17 0 0.00
5      50        336      2  842110 1.124E-23 0 0.00
5      50        337      2  842120 6.805E-24 0 0.00
5      50        338      2  842130 8.634E-27 0 0.00
5      50        339      2  842140 6.688E-25 0 0.00
5      50        340      2  842150 1.300E-23 0 0.00
5      50        341      2  842160 4.261E-18 0 0.00
5      50        342      2  842180 3.104E-19 0 0.00
5      50        343      2  852170 6.918E-23 0 0.00
5      50        344      2  862190 2.948E-20 0 0.00
5      50        345      2  862200 2.044E-15 0 0.00
5      50        346      2  862220 5.753E-16 0 0.00
5      50        347      2  872210 6.282E-19 0 0.00
5      50        348      2  872230 2.987E-19 0 0.00
5      50        349      2  882230 7.486E-15 0 0.00
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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:54
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                  CARD IMAGE
UNIT    UNIT     NUMBER
   5      50        350      2  882240 1.184E-11 0 0.00
   5      50        351      2  882250 3.804E-15 0 0.00
   5      50        352      2  882260 8.950E-11 0 0.00
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5	50	353	2	892250	1.918E-15	0	0.00
5	50	354	2	892270	1.158E-11	0	0.00
5	50	355	2	902270	1.704E-14	0	0.00
5	50	356	2	902280	2.294E-09	0	0.00
5	50	357	2	902290	3.157E-10	0	0.00
5	50	358	2	902300	6.214E-05	0	0.00
5	50	359	2	902310	6.945E-08	0	0.00
5	50	360	2	902320	5.613E-06	0	0.00
5	50	361	2	902340	1.387E-05	0	0.00
5	50	362	2	912310	3.828E-06	0	0.00
5	50	363	2	912320	7.356E-09	0	0.00
5	50	364	2	912330	2.815E-07	0	0.00
5	50	365	2	912340	2.295E-10	0	0.00
5	50	366	2	912341	4.677E-10	0	0.00
5	50	367	2	922320	1.661E-06	0	0.00
5	50	368	2	922330	5.939E-05	0	0.00
5	50	369	2	922340	6.925E+01	0	0.00
5	50	370	2	922350	8.726E+03	0	0.00
5	50	371	2	922360	6.889E+02	0	0.00
5	50	372	2	922370	1.423E+00	0	0.00
5	50	373	2	922380	9.883E+05	0	0.00
5	50	374	2	922390	2.683E-01	0	0.00
5	50	375	2	922400	1.285E-05	0	0.00
5	50	376	2	932350	2.230E-08	0	0.00
5	50	377	2	932360	2.170E-06	0	0.00
5	50	378	2	932361	1.994E-07	0	0.00
5	50	379	2	932370	1.244E+01	0	0.00
5	50	380	2	932380	2.633E-02	0	0.00
5	50	381	2	932390	3.864E+01	0	0.00
5	50	382	2	932400	4.866E-04	0	0.00
5	50	383	2	932401	1.404E-05	0	0.00
5	50	384	2	942360	3.144E-06	0	0.00
5	50	385	2	942370	3.727E-07	0	0.00
5	50	386	2	942380	3.842E-01	0	0.00
5	50	387	2	942390	9.273E+02	0	0.00
5	50	388	2	942400	6.306E+01	0	0.00
5	50	389	2	942410	8.354E+00	0	0.00
5	50	390	2	942420	2.074E-01	0	0.00
5	50	391	2	942430	3.139E-05	0	0.00
5	50	392	2	952410	3.122E-02	0	0.00
5	50	393	2	952420	6.708E-05	0	0.00
5	50	394	2	952421	1.522E-04	0	0.00
5	50	395	2	952430	2.243E-03	0	0.00

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   5      50        396      2  952440 6.535E-08 0 0.00
   5      50        397      2  952441 5.339E-08 0 0.00
   5      50        398      2  962420 1.273E-03 0 0.00
   5      50        399      2  962430 2.149E-06 0 0.00
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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:54
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                  CARD IMAGE
UNIT    UNIT     NUMBER
   5      50        400      2  962440 3.831E-05 0 0.00
   5      50        401      2  962450 1.365E-07 0 0.00
   5      50        402      3   10030 1.909E-03 0 0.00
   5      50        403      3   30060 1.391E-05 0 0.00
   5      50        404      3   30070 3.525E-07 0 0.00
   5      50        405      3   40090 6.798E-07 0 0.00
   5      50        406      3   40100 4.532E-06 0 0.00
   5      50        407      3   60140 9.165E-07 0 0.00
   5      50        408      3  270720 4.359E-13 0 0.00
   5      50        409      3  270730 1.302E-13 0 0.00
   5      50        410      3  270740 2.563E-14 0 0.00
   5      50        411      3  280720 1.610E-10 0 0.00
   5      50        412      3  280730 2.219E-11 0 0.00
   5      50        413      3  280740 2.513E-11 0 0.00
   5      50        414      3  280750 2.860E-12 0 0.00
   5      50        415      3  280760 1.154E-12 0 0.00
   5      50        416      3  280770 7.468E-14 0 0.00
   5      50        417      3  280780 1.165E-14 0 0.00
   5      50        418      3  290720 7.204E-10 0 0.00
   5      50        419      3  290730 7.161E-10 0 0.00
   5      50        420      3  290740 1.545E-10 0 0.00
   5      50        421      3  290750 2.143E-10 0 0.00
   5      50        422      3  290760 5.041E-11 0 0.00
   5      50        423      3  290770 3.135E-11 0 0.00
   5      50        424      3  290780 4.707E-12 0 0.00
   5      50        425      3  290790 1.467E-12 0 0.00
   5      50        426      3  290800 1.002E-13 0 0.00
   5      50        427      3  290810 5.900E-15 0 0.00
   5      50        428      3  300720 2.230E-05 0 0.00
   5      50        429      3  300730 6.713E-09 0 0.00
   5      50        430      3  300740 5.476E-08 0 0.00
   5      50        431      3  300750 1.024E-08 0 0.00
   5      50        432      3  300760 1.195E-08 0 0.00
```

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  5      50        433      3  300770 3.597E-09 0 0.00
  5      50        434      3  300780 6.650E-09 0 0.00
  5      50        435      3  300790 6.077E-10 0 0.00
  5      50        436      3  300800 4.422E-10 0 0.00
  5      50        437      3  300810 1.768E-11 0 0.00
  5      50        438      3  300820 2.317E-12 0 0.00
  5      50        439      3  300830 1.324E-13 0 0.00
  5      50        440      3  310720 6.775E-06 0 0.00
  5      50        441      3  310730 5.175E-06 0 0.00
  5      50        442      3  310740 2.922E-07 0 0.00
  5      50        443      3  310750 1.480E-07 0 0.00
  5      50        444      3  310760 8.417E-08 0 0.00
  5      50        445      3  310770 7.683E-08 0 0.00
  5      50        446      3  310780 5.483E-08 0 0.00
  5      50        447      3  310790 3.487E-08 0 0.00
  5      50        448      3  310800 2.364E-08 0 0.00
  5      50        449      3  310810 5.779E-09 0 0.00
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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:54
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                    CARD IMAGE
UNIT    UNIT     NUMBER
  5      50        450      3  310820 4.588E-10 0 0.00
  5      50        451      3  310830 1.207E-10 0 0.00
  5      50        452      3  310840 8.834E-12 0 0.00
  5      50        453      3  320720 7.458E-04 0 0.00
  5      50        454      3  320730 1.738E-03 0 0.00
  5      50        455      3  320731 1.562E-10 0 0.00
  5      50        456      3  320740 3.576E-03 0 0.00
  5      50        457      3  320750 6.486E-06 0 0.00
  5      50        458      3  320751 2.724E-09 0 0.00
  5      50        459      3  320760 1.941E-02 0 0.00
  5      50        460      3  320770 9.770E-05 0 0.00
  5      50        461      3  320771 3.049E-07 0 0.00
  5      50        462      3  320780 7.342E-05 0 0.00
  5      50        463      3  320790 1.326E-06 0 0.00
  5      50        464      3  320800 1.658E-06 0 0.00
  5      50        465      3  320810 9.157E-07 0 0.00
  5      50        466      3  320820 3.900E-07 0 0.00
  5      50        467      3  320830 1.205E-07 0 0.00
  5      50        468      3  320840 2.070E-08 0 0.00
  5      50        469      3  320850 1.153E-09 0 0.00
```

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   5      50        470      3  320860 2.423E-10 0 0.00
   5      50        471      3  320870 1.759E-11 0 0.00
   5      50        472      3  320880 6.044E-13 0 0.00
   5      50        473      3  330750 7.779E-03 0 0.00
   5      50        474      3  330760 4.508E-07 0 0.00
   5      50        475      3  330770 9.572E-04 0 0.00
   5      50        476      3  330780 7.791E-05 0 0.00
   5      50        477      3  330790 1.974E-05 0 0.00
   5      50        478      3  330800 1.352E-06 0 0.00
   5      50        479      3  330810 4.316E-06 0 0.00
   5      50        480      3  330820 2.858E-06 0 0.00
   5      50        481      3  330821 6.642E-07 0 0.00
   5      50        482      3  330830 3.476E-06 0 0.00
   5      50        483      3  330840 1.193E-06 0 0.00
   5      50        484      3  330850 2.661E-07 0 0.00
   5      50        485      3  330860 6.563E-08 0 0.00
   5      50        486      3  330870 1.182E-08 0 0.00
   5      50        487      3  330880 3.301E-10 0 0.00
   5      50        488      3  330890 3.319E-11 0 0.00
   5      50        489      3  340760 1.451E-05 0 0.00
   5      50        490      3  340770 4.020E-02 0 0.00
   5      50        491      3  340771 2.977E-10 0 0.00
   5      50        492      3  340780 8.419E-02 0 0.00
   5      50        493      3  340790 2.185E-01 0 0.00
   5      50        494      3  340791 8.536E-06 0 0.00
   5      50        495      3  340800 4.941E-01 0 0.00
   5      50        496      3  340810 1.576E-04 0 0.00
   5      50        497      3  340811 1.409E-05 0 0.00
   5      50        498      3  340820 1.322E+00 0 0.00
   5      50        499      3  340830 1.784E-04 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:54
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                    CARD IMAGE
UNIT    UNIT     NUMBER
   5      50        500      3  340831 1.484E-05 0 0.00
   5      50        501      3  340840 1.237E-04 0 0.00
   5      50        502      3  340850 1.516E-05 0 0.00
   5      50        503      3  340851 5.345E-06 0 0.00
   5      50        504      3  340860 1.336E-05 0 0.00
   5      50        505      3  340870 3.512E-06 0 0.00
   5      50        506      3  340880 3.698E-07 0 0.00
```

5	50	507	3	340890	2.907E-08	0	0.00
5	50	508	3	340900	1.298E-08	0	0.00
5	50	509	3	340910	5.776E-10	0	0.00
5	50	510	3	340920	3.364E-11	0	0.00
5	50	511	3	350790	5.120E-07	0	0.00
5	50	512	3	350800	1.139E-09	0	0.00
5	50	513	3	350801	1.072E-08	0	0.00
5	50	514	3	350810	8.536E-01	0	0.00
5	50	515	3	350820	1.546E-04	0	0.00
5	50	516	3	350821	1.544E-07	0	0.00
5	50	517	3	350830	2.997E-03	0	0.00
5	50	518	3	350840	1.220E-03	0	0.00
5	50	519	3	350841	5.604E-06	0	0.00
5	50	520	3	350850	1.357E-04	0	0.00
5	50	521	3	350860	3.256E-05	0	0.00
5	50	522	3	350861	2.603E-06	0	0.00
5	50	523	3	350870	7.619E-05	0	0.00
5	50	524	3	350880	2.538E-05	0	0.00
5	50	525	3	350890	5.256E-06	0	0.00
5	50	526	3	350900	1.257E-06	0	0.00
5	50	527	3	350910	1.595E-07	0	0.00
5	50	528	3	350920	6.623E-09	0	0.00
5	50	529	3	350930	8.896E-10	0	0.00
5	50	530	3	350940	3.971E-11	0	0.00
5	50	531	3	350950	2.917E-12	0	0.00
5	50	532	3	350960	1.132E-13	0	0.00
5	50	533	3	360800	4.291E-06	0	0.00
5	50	534	3	360810	1.620E-07	0	0.00
5	50	535	3	360820	3.988E-03	0	0.00
5	50	536	3	360830	2.085E+00	0	0.00
5	50	537	3	360831	2.295E-03	0	0.00
5	50	538	3	360840	4.114E+00	0	0.00
5	50	539	3	360850	1.048E+00	0	0.00
5	50	540	3	360851	1.286E-02	0	0.00
5	50	541	3	360860	7.884E+00	0	0.00
5	50	542	3	360870	7.400E-03	0	0.00
5	50	543	3	360880	2.361E-02	0	0.00
5	50	544	3	360890	5.561E-04	0	0.00
5	50	545	3	360900	9.494E-05	0	0.00
5	50	546	3	360910	1.933E-05	0	0.00
5	50	547	3	360920	1.930E-06	0	0.00
5	50	548	3	360930	4.835E-07	0	0.00
5	50	549	3	360940	3.262E-08	0	0.00

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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:54
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                    CARD IMAGE
UNIT    UNIT     NUMBER
   5      50       550      3  360950 7.777E-09 0 0.00
   5      50       551      3  360960 1.113E-09 0 0.00
   5      50       552      3  360970 2.002E-11 0 0.00
   5      50       553      3  360980 3.727E-12 0 0.00
   5      50       554      3  370850 3.916E+00 0 0.00
   5      50       555      3  370860 4.924E-04 0 0.00
   5      50       556      3  370861 7.282E-09 0 0.00
   5      50       557      3  370870 1.017E+01 0 0.00
   5      50       558      3  370880 2.493E-03 0 0.00
   5      50       559      3  370890 2.793E-03 0 0.00
   5      50       560      3  370900 4.655E-04 0 0.00
   5      50       561      3  370901 1.694E-04 0 0.00
   5      50       562      3  370910 2.163E-04 0 0.00
   5      50       563      3  370920 1.442E-05 0 0.00
   5      50       564      3  370930 1.421E-05 0 0.00
   5      50       565      3  370940 3.421E-06 0 0.00
   5      50       566      3  370950 2.431E-07 0 0.00
   5      50       567      3  370960 3.722E-08 0 0.00
   5      50       568      3  370970 5.830E-09 0 0.00
   5      50       569      3  370980 1.043E-09 0 0.00
   5      50       570      3  370990 5.471E-11 0 0.00
   5      50       571      3  371000 6.070E-12 0 0.00
   5      50       572      3  380860 9.230E-04 0 0.00
   5      50       573      3  380870 2.699E-05 0 0.00
   5      50       574      3  380871 2.754E-08 0 0.00
   5      50       575      3  380880 1.461E+01 0 0.00
   5      50       576      3  380890 9.532E+00 0 0.00
   5      50       577      3  380900 2.311E+01 0 0.00
   5      50       578      3  380910 1.335E-01 0 0.00
   5      50       579      3  380920 4.029E-02 0 0.00
   5      50       580      3  380930 2.045E-03 0 0.00
   5      50       581      3  380940 3.217E-04 0 0.00
   5      50       582      3  380950 1.044E-04 0 0.00
   5      50       583      3  380960 1.130E-05 0 0.00
   5      50       584      3  380970 3.030E-07 0 0.00
   5      50       585      3  380980 5.176E-07 0 0.00
   5      50       586      3  380990 9.172E-08 0 0.00
```

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   5      50        587      3  381000 3.280E-08 0 0.00
   5      50        588      3  381010 1.134E-09 0 0.00
   5      50        589      3  381020 1.648E-10 0 0.00
   5      50        590      3  381030 1.716E-12 0 0.00
   5      50        591      3  381040 8.807E-14 0 0.00
   5      50        592      3  390890 9.705E+00 0 0.00
   5      50        593      3  390891 1.143E-11 0 0.00
   5      50        594      3  390900 5.908E-03 0 0.00
   5      50        595      3  390901 2.492E-07 0 0.00
   5      50        596      3  390910 1.302E+01 0 0.00
   5      50        597      3  390911 6.756E-03 0 0.00
   5      50        598      3  390920 5.276E-02 0 0.00
   5      50        599      3  390930 1.683E-01 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:54
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                    CARD IMAGE
UNIT    UNIT     NUMBER
   5      50        600      3  390940 5.232E-03 0 0.00
   5      50        601      3  390950 3.051E-03 0 0.00
   5      50        602      3  390960 6.357E-04 0 0.00
   5      50        603      3  390970 4.410E-06 0 0.00
   5      50        604      3  390980 8.678E-07 0 0.00
   5      50        605      3  390990 1.347E-06 0 0.00
   5      50        606      3  391000 5.839E-07 0 0.00
   5      50        607      3  391010 2.522E-07 0 0.00
   5      50        608      3  391020 1.656E-08 0 0.00
   5      50        609      3  391030 2.935E-09 0 0.00
   5      50        610      3  391040 8.828E-11 0 0.00
   5      50        611      3  391050 6.019E-12 0 0.00
   5      50        612      3  400900 1.196E-01 0 0.00
   5      50        613      3  400910 1.118E+01 0 0.00
   5      50        614      3  400920 2.550E+01 0 0.00
   5      50        615      3  400930 2.813E+01 0 0.00
   5      50        616      3  400940 2.774E+01 0 0.00
   5      50        617      3  400950 1.672E+01 0 0.00
   5      50        618      3  400960 2.937E+01 0 0.00
   5      50        619      3  400970 2.886E-01 0 0.00
   5      50        620      3  400980 1.481E-04 0 0.00
   5      50        621      3  400990 1.142E-05 0 0.00
   5      50        622      3  401000 3.175E-05 0 0.00
   5      50        623      3  401010 9.773E-06 0 0.00
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  5      50        624      3  401020 4.677E-05 0 0.00
  5      50        625      3  401030 9.943E-07 0 0.00
  5      50        626      3  401040 4.264E-07 0 0.00
  5      50        627      3  401050 8.377E-09 0 0.00
  5      50        628      3  401060 2.208E-09 0 0.00
  5      50        629      3  401070 2.727E-11 0 0.00
  5      50        630      3  401080 1.310E-11 0 0.00
  5      50        631      3  401090 3.233E-13 0 0.00
  5      50        632      3  410930 2.750E-07 0 0.00
  5      50        633      3  410931 2.130E-06 0 0.00
  5      50        634      3  410940 1.205E-05 0 0.00
  5      50        635      3  410941 5.952E-10 0 0.00
  5      50        636      3  410950 6.097E+00 0 0.00
  5      50        637      3  410951 6.787E-03 0 0.00
  5      50        638      3  410960 1.966E-04 0 0.00
  5      50        639      3  410970 2.065E-02 0 0.00
  5      50        640      3  410971 2.698E-04 0 0.00
  5      50        641      3  410980 1.353E-05 0 0.00
  5      50        642      3  410981 1.025E-04 0 0.00
  5      50        643      3  410990 7.015E-05 0 0.00
  5      50        644      3  410991 2.408E-05 0 0.00
  5      50        645      3  411000 6.477E-06 0 0.00
  5      50        646      3  411001 6.504E-06 0 0.00
  5      50        647      3  411010 3.097E-05 0 0.00
  5      50        648      3  411020 1.081E-05 0 0.00
  5      50        649      3  411030 3.616E-05 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:54
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                  CARD IMAGE
UNIT    UNIT     NUMBER
  5      50        650      3  411040 9.832E-07 0 0.00
  5      50        651      3  411050 5.420E-07 0 0.00
  5      50        652      3  411060 4.431E-08 0 0.00
  5      50        653      3  411070 8.289E-09 0 0.00
  5      50        654      3  411080 8.881E-10 0 0.00
  5      50        655      3  411090 2.221E-10 0 0.00
  5      50        656      3  411100 1.172E-11 0 0.00
  5      50        657      3  411110 1.251E-12 0 0.00
  5      50        658      3  420950 6.571E+00 0 0.00
  5      50        659      3  420960 2.273E-02 0 0.00
  5      50        660      3  420970 2.803E+01 0 0.00
```

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5    50    661    3  420980 2.872E+01 0 0.00
5    50    662    3  420990 1.204E+00 0 0.00
5    50    663    3  421000 3.184E+01 0 0.00
5    50    664    3  421010 4.042E-03 0 0.00
5    50    665    3  421020 2.756E-03 0 0.00
5    50    666    3  421030 2.122E-04 0 0.00
5    50    667    3  421040 2.371E-04 0 0.00
5    50    668    3  421050 8.432E-05 0 0.00
5    50    669    3  421060 6.431E-06 0 0.00
5    50    670    3  421070 1.498E-06 0 0.00
5    50    671    3  421080 1.412E-07 0 0.00
5    50    672    3  421090 3.679E-08 0 0.00
5    50    673    3  421100 1.791E-08 0 0.00
5    50    674    3  421110 8.222E-10 0 0.00
5    50    675    3  421120 2.704E-10 0 0.00
5    50    676    3  421130 5.552E-12 0 0.00
5    50    677    3  421140 9.374E-13 0 0.00
5    50    678    3  421150 2.286E-14 0 0.00
5    50    679    3  430980 1.322E-05 0 0.00
5    50    680    3  430990 2.852E+01 0 0.00
5    50    681    3  430991 9.612E-02 0 0.00
5    50    682    3  431000 9.232E-07 0 0.00
5    50    683    3  431010 3.926E-03 0 0.00
5    50    684    3  431020 2.187E-05 0 0.00
5    50    685    3  431021 7.939E-07 0 0.00
5    50    686    3  431030 1.788E-04 0 0.00
5    50    687    3  431040 2.849E-03 0 0.00
5    50    688    3  431050 8.980E-04 0 0.00
5    50    689    3  431060 4.030E-05 0 0.00
5    50    690    3  431070 1.509E-05 0 0.00
5    50    691    3  431080 1.629E-06 0 0.00
5    50    692    3  431090 8.596E-06 0 0.00
5    50    693    3  431100 4.683E-08 0 0.00
5    50    694    3  431110 3.285E-08 0 0.00
5    50    695    3  431120 3.427E-09 0 0.00
5    50    696    3  431130 1.220E-09 0 0.00
5    50    697    3  431140 1.074E-10 0 0.00
5    50    698    3  431150 2.946E-11 0 0.00
5    50    699    3  431160 8.802E-13 0 0.00
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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10    at 06:33:54
LISTING OF INPUT DATA ON UNIT = 5
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INPUT UNIT	WRITE UNIT	CARD NUMBER	CARD IMAGE
5	50	700	3 431170 4.849E-14 0 0.00
5	50	701	3 440990 1.501E-05 0 0.00
5	50	702	3 441000 1.764E-01 0 0.00
5	50	703	3 441010 2.676E+01 0 0.00
5	50	704	3 441020 2.371E+01 0 0.00
5	50	705	3 441030 8.690E+00 0 0.00
5	50	706	3 441040 1.362E+01 0 0.00
5	50	707	3 441050 3.015E-02 0 0.00
5	50	708	3 441060 4.966E+00 0 0.00
5	50	709	3 441070 2.035E-04 0 0.00
5	50	710	3 441080 1.423E-04 0 0.00
5	50	711	3 441090 1.185E-05 0 0.00
5	50	712	3 441100 2.638E-06 0 0.00
5	50	713	3 441110 1.426E-06 0 0.00
5	50	714	3 441120 3.778E-08 0 0.00
5	50	715	3 441130 9.541E-08 0 0.00
5	50	716	3 441140 8.928E-08 0 0.00
5	50	717	3 441150 6.341E-09 0 0.00
5	50	718	3 441160 2.779E-09 0 0.00
5	50	719	3 441170 9.625E-11 0 0.00
5	50	720	3 441180 1.224E-09 0 0.00
5	50	721	3 441200 1.233E-13 0 0.00
5	50	722	3 451020 1.377E-06 0 0.00
5	50	723	3 451030 1.041E+01 0 0.00
5	50	724	3 451031 7.766E-03 0 0.00
5	50	725	3 451040 6.083E-06 0 0.00
5	50	726	3 451041 2.712E-06 0 0.00
5	50	727	3 451050 2.135E-01 0 0.00
5	50	728	3 451051 2.378E-05 0 0.00
5	50	729	3 451060 9.007E-06 0 0.00
5	50	730	3 451061 5.586E-04 0 0.00
5	50	731	3 451070 1.057E-03 0 0.00
5	50	732	3 451080 8.935E-06 0 0.00
5	50	733	3 451081 1.728E-06 0 0.00
5	50	734	3 451090 3.181E-05 0 0.00
5	50	735	3 451091 8.725E-06 0 0.00
5	50	736	3 451100 5.060E-06 0 0.00
5	50	737	3 451101 2.892E-08 0 0.00
5	50	738	3 451110 7.204E-06 0 0.00
5	50	739	3 451120 3.475E-07 0 0.00
5	50	740	3 451130 5.458E-08 0 0.00

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  5      50        741      3  451140 7.070E-08 0 0.00
  5      50        742      3  451150 2.119E-07 0 0.00
  5      50        743      3  451160 1.460E-08 0 0.00
  5      50        744      3  451170 1.268E-08 0 0.00
  5      50        745      3  451180 4.566E-09 0 0.00
  5      50        746      3  451190 4.526E-10 0 0.00
  5      50        747      3  451200 3.086E-11 0 0.00
  5      50        748      3  451210 6.690E-12 0 0.00
  5      50        749      3  451220 3.899E-13 0 0.00
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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:54
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                    CARD IMAGE
UNIT    UNIT     NUMBER
  5      50        750      3  451230 4.283E-14 0 0.00
  5      50        751      3  461040 3.442E-01 0 0.00
  5      50        752      3  461050 8.029E+00 0 0.00
  5      50        753      3  461060 1.533E+00 0 0.00
  5      50        754      3  461070 3.400E+00 0 0.00
  5      50        755      3  461071 1.244E-10 0 0.00
  5      50        756      3  461080 2.171E+00 0 0.00
  5      50        757      3  461090 1.711E-02 0 0.00
  5      50        758      3  461091 4.913E-05 0 0.00
  5      50        759      3  461100 8.137E-01 0 0.00
  5      50        760      3  461110 1.526E-04 0 0.00
  5      50        761      3  461111 2.520E-05 0 0.00
  5      50        762      3  461120 5.585E-03 0 0.00
  5      50        763      3  461130 6.149E-06 0 0.00
  5      50        764      3  461140 7.766E-06 0 0.00
  5      50        765      3  461150 2.178E-06 0 0.00
  5      50        766      3  461160 6.441E-07 0 0.00
  5      50        767      3  461170 2.225E-07 0 0.00
  5      50        768      3  461180 1.144E-07 0 0.00
  5      50        769      3  461190 4.002E-08 0 0.00
  5      50        770      3  461200 4.546E-08 0 0.00
  5      50        771      3  461210 2.626E-09 0 0.00
  5      50        772      3  461220 1.666E-09 0 0.00
  5      50        773      3  461230 9.381E-11 0 0.00
  5      50        774      3  461240 3.111E-11 0 0.00
  5      50        775      3  461260 2.224E-13 0 0.00
  5      50        776      3  471070 4.998E-08 0 0.00
  5      50        777      3  471080 2.451E-11 0 0.00
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  5      50        778      3  471081 1.243E-08 0 0.00
  5      50        779      3  471090 1.371E+00 0 0.00
  5      50        780      3  471091 1.398E-05 0 0.00
  5      50        781      3  471100 3.805E-07 0 0.00
  5      50        782      3  471101 1.885E-03 0 0.00
  5      50        783      3  471110 7.138E-02 0 0.00
  5      50        784      3  471111 7.482E-06 0 0.00
  5      50        785      3  471120 8.721E-04 0 0.00
  5      50        786      3  471130 1.175E-03 0 0.00
  5      50        787      3  471131 4.549E-07 0 0.00
  5      50        788      3  471140 2.459E-07 0 0.00
  5      50        789      3  471150 5.117E-05 0 0.00
  5      50        790      3  471151 2.752E-07 0 0.00
  5      50        791      3  471160 4.017E-06 0 0.00
  5      50        792      3  471161 2.598E-07 0 0.00
  5      50        793      3  471170 1.855E-06 0 0.00
  5      50        794      3  471171 1.343E-07 0 0.00
  5      50        795      3  471180 1.298E-07 0 0.00
  5      50        796      3  471181 6.532E-08 0 0.00
  5      50        797      3  471190 2.739E-07 0 0.00
  5      50        798      3  471200 4.110E-08 0 0.00
  5      50        799      3  471210 7.575E-08 0 0.00
```



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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:54
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE    CARD                                    CARD IMAGE
UNIT    UNIT     NUMBER
  5      50        800      3  471220 1.602E-09 0 0.00
  5      50        801      3  471230 7.393E-09 0 0.00
  5      50        802      3  471240 1.039E-09 0 0.00
  5      50        803      3  471250 4.385E-10 0 0.00
  5      50        804      3  471260 5.440E-11 0 0.00
  5      50        805      3  471280 1.313E-12 0 0.00
  5      50        806      3  481080 4.250E-07 0 0.00
  5      50        807      3  481100 3.880E-02 0 0.00
  5      50        808      3  481110 4.943E-01 0 0.00
  5      50        809      3  481111 4.963E-10 0 0.00
  5      50        810      3  481120 4.118E-01 0 0.00
  5      50        811      3  481130 4.314E-02 0 0.00
  5      50        812      3  481131 6.476E-03 0 0.00
  5      50        813      3  481140 6.408E-01 0 0.00
  5      50        814      3  481150 1.035E-02 0 0.00
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  5      50        815      3  481151 1.432E-02 0 0.00
  5      50        816      3  481160 2.911E-01 0 0.00
  5      50        817      3  481170 3.108E-04 0 0.00
  5      50        818      3  481171 2.201E-04 0 0.00
  5      50        819      3  481180 1.548E-04 0 0.00
  5      50        820      3  481190 1.436E-05 0 0.00
  5      50        821      3  481191 4.890E-06 0 0.00
  5      50        822      3  481200 2.611E-06 0 0.00
  5      50        823      3  481210 6.630E-07 0 0.00
  5      50        824      3  481220 2.829E-07 0 0.00
  5      50        825      3  481230 4.210E-07 0 0.00
  5      50        826      3  481240 8.049E-07 0 0.00
  5      50        827      3  481250 5.097E-08 0 0.00
  5      50        828      3  481260 9.159E-08 0 0.00
  5      50        829      3  481270 7.773E-09 0 0.00
  5      50        830      3  481280 5.980E-09 0 0.00
  5      50        831      3  481290 6.727E-10 0 0.00
  5      50        832      3  481300 1.172E-09 0 0.00
  5      50        833      3  481310 4.227E-11 0 0.00
  5      50        834      3  481320 4.796E-12 0 0.00
  5      50        835      3  491130 4.790E-05 0 0.00
  5      50        836      3  491140 7.734E-12 0 0.00
  5      50        837      3  491150 2.623E-01 0 0.00
  5      50        838      3  491151 8.344E-04 0 0.00
  5      50        839      3  491160 1.147E-07 0 0.00
  5      50        840      3  491161 2.084E-05 0 0.00
  5      50        841      3  491170 8.085E-05 0 0.00
  5      50        842      3  491171 2.709E-04 0 0.00
  5      50        843      3  491180 2.565E-07 0 0.00
  5      50        844      3  491181 3.300E-09 0 0.00
  5      50        845      3  491190 2.201E-06 0 0.00
  5      50        846      3  491191 4.130E-05 0 0.00
  5      50        847      3  491200 1.158E-06 0 0.00
  5      50        848      3  491201 8.029E-08 0 0.00
  5      50        849      3  491210 1.223E-06 0 0.00
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ORIGEN2 V2.2 (5-4-2002), Run on 07/27/10     at 06:33:54
LISTING OF INPUT DATA ON UNIT = 5

INPUT   WRITE     CARD                                  CARD IMAGE
UNIT    UNIT      NUMBER
  5      50        850      3  491211 2.125E-06 0 0.00
  5      50        851      3  491220 5.445E-07 0 0.00
```

5	50	852	3	491221	4.537E-09	0	0.00
5	50	853	3	491230	2.695E-07	0	0.00
5	50	854	3	491231	8.654E-07	0	0.00
5	50	855	3	491240	2.355E-07	0	0.00
5	50	856	3	491250	9.968E-08	0	0.00
5	50	857	3	491251	3.650E-07	0	0.00
5	50	858	3	491260	1.560E-07	0	0.00
5	50	859	3	491270	1.103E-07	0	0.00
5	50	860	3	491271	2.010E-07	0	0.00
5	50	861	3	491280	3.716E-07	0	0.00
5	50	862	3	491290	6.437E-08	0	0.00
5	50	863	3	491300	5.609E-08	0	0.00
5	50	864	3	491310	1.192E-08	0	0.00
5	50	865	3	491320	1.340E-09	0	0.00
5	50	866	3	491330	1.356E-10	0	0.00
5	50	867	3	491340	5.033E-12	0	0.00
5	50	868	3	501140	2.127E-07	0	0.00
5	50	869	3	501150	1.115E-02	0	0.00
5	50	870	3	501160	4.549E-02	0	0.00
5	50	871	3	501170	2.966E-01	0	0.00
5	50	872	3	501171	2.575E-06	0	0.00
5	50	873	3	501180	2.990E-01	0	0.00
5	50	874	3	501190	2.924E-01	0	0.00
5	50	875	3	501191	3.654E-03	0	0.00
5	50	876	3	501200	3.033E-01	0	0.00
5	50	877	3	501210	5.251E-03	0	0.00
5	50	878	3	501211	7.678E-05	0	0.00
5	50	879	3	501220	3.359E-01	0	0.00
5	50	880	3	501230	5.538E-02	0	0.00
5	50	881	3	501231	1.263E-04	0	0.00
5	50	882	3	501240	4.512E-01	0	0.00
5	50	883	3	501250	3.298E-02	0	0.00
5	50	884	3	501251	3.828E-05	0	0.00
5	50	885	3	501260	8.510E-01	0	0.00
5	50	886	3	501270	1.522E-03	0	0.00
5	50	887	3	501271	2.288E-05	0	0.00
5	50	888	3	501280	1.910E-03	0	0.00
5	50	889	3	501290	1.539E-04	0	0.00
5	50	890	3	501291	6.643E-05	0	0.00
5	50	891	3	501300	2.723E-04	0	0.00
5	50	892	3	501310	7.382E-05	0	0.00
5	50	893	3	501320	2.807E-05	0	0.00
5	50	894	3	501330	3.269E-07	0	0.00