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*****************************************************************************************
*                                                                                       *
*                                                                                       *
*                                                                                       *
*            GGGGGGGG     AA     SSSSSSSS  PPPPPPPP     AA     RRRRRRRR    IIIII IIIII  *
*            G      G     AA     S         PP     P     AA     RR     R      I     I    *
*            G           A  A    SSSSSSS   PP     P    A  A    RRRRRRRR      I     I    *
*            G   GGGGG  AAAAAA         S   PPPPPPPP   AAAAAA   RRRR          I     I    *
*            G     G   A      A        S   PP        A      A  RR RR         I     I    *
*            GGGGGGG  A        A SSSSSSS   PP       A        A RR   RR     IIIII IIIII  *
*                                                                                       *
*                                                                                       *
*                                                                                       *
*                                                                                       *
*                                                                                       *
*                   EVALUATION OF RADIATION DOSES FROM RELEASES OF RADIOACTIVITY        *
*                                                                                       *
*                           IN NUCLEAR POWER PLANTS AIRBORNE EFFLUENTS                  *
*                                                                                       *
*                             REVISION DATE:  JSB PC - MARCH 1994                       *
*                                                                                       *
*                                                                                       *
*                                                                                       *
*                                                                                       *
*                                                                                       *
*            GGNS ESP Airborne Effluents                                                *
*                                                                                       *
*                                                                                       *
*                                                                                       *
*                                                                                       *
*                             RELIABILITY AND RISK ASSESSMENT BRANCH                    *
*                                                                                       *
*                             OFFICE OF NUCLEAR REACTOR REGULATION                      *
*                                                                                       *
*                             U.S. NUCLEAR REGULATORY COMMISSION                        *
*                                                                                       *
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*                                WASHINGTON, D.C. 20555                                *
*                                                                                      *
*                                   DATE OF RUN:     29-Apr-2005                       *
*                                                                                      *
*                                                                                      *
*                                                                                      *
****************************************************************************************
1
 GGNS ESP Airborne Effluents

0                           SITE POPULATION DATA (PEOPLE)
                                          DOWNWIND DISTANCE(MILES)
```

DIR	0-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50	TOTAL
N	0.000E+00	3.000E+00	0.000E+00	0.000E+00	0.000E+00	1.000E+01	8.330E+02	5.390E+02	7.490E+02	4.500E+02	2.584E+03
NNE	0.000E+00	1.100E+01	0.000E+00	0.000E+00	0.000E+00	3.000E+00	2.563E+04	2.174E+04	7.823E+03	2.450E+02	5.545E+04
NE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.400E+01	4.000E+00	7.120E+03	7.276E+03	2.379E+03	8.070E+02	1.762E+04
ENE	0.000E+00	1.700E+01	0.000E+00	5.300E+01	3.200E+01	1.210E+02	9.990E+02	2.644E+03	3.321E+04	5.851E+04	9.559E+04
E	0.000E+00	2.000E+01	0.000E+00	1.000E+02	8.100E+01	2.050E+02	1.534E+03	1.804E+03	1.351E+04	9.961E+03	2.721E+04
ESE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.010E+03	1.221E+03	1.423E+03	8.588E+03	9.839E+03	2.208E+04
SE	0.000E+00	0.000E+00	1.200E+01	0.000E+00	2.520E+02	3.930E+03	1.472E+03	1.979E+03	5.092E+03	2.329E+04	3.603E+04
SSE	0.000E+00	7.000E+00	9.000E+00	0.000E+00	5.000E+01	6.090E+02	8.310E+02	5.730E+02	2.093E+03	5.015E+03	9.187E+03
S	0.000E+00	0.000E+00	4.000E+00	0.000E+00	0.000E+00	1.030E+02	4.180E+03	2.382E+03	1.331E+03	1.165E+03	9.165E+03
SSW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.616E+03	1.146E+03	8.602E+03	1.725E+04	1.136E+04	3.998E+04
SW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.000E+00	5.740E+02	1.964E+03	6.540E+03	9.218E+03	1.830E+04
WSW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.050E+02	1.489E+03	1.695E+03	2.569E+03	1.448E+03	7.306E+03
W	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.080E+02	3.580E+02	8.340E+02	4.137E+03	3.701E+03	9.138E+03
WNW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.000E+00	2.403E+03	2.031E+03	5.478E+03	7.103E+03	1.702E+04
NW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.500E+01	1.280E+02	2.940E+02	1.740E+03	8.588E+03	1.079E+04
NNW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.730E+02	4.163E+03	1.035E+04	2.581E+03	1.797E+04
TOTAL	0.000E+00	5.800E+01	2.500E+01	1.530E+02	4.490E+02	7.872E+03	5.079E+04	5.994E+04	1.228E+05	1.533E+05	3.954E+05

AVERAGE SITE DENSITY(PEOPLE/M**2) = 1.98E-05

0

SITE ANNUAL MILK PRODUCTION (LITERS/YR)

DOWNWIND DISTANCE(MILES)

DIR	0-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50	TOTAL
N	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NNE	0.000E+00	0.000E+00	0.000E+00	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	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.360E+05	3.360E+05	3.360E+05	1.008E+06
ENE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.360E+05	6.730E+05	6.730E+05	1.682E+06
E	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.550E+05	8.550E+05	8.550E+05	2.565E+06

ESE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.720E+06	1.720E+06	1.720E+06	5.160E+06
SE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.430E+05	1.010E+06	1.180E+07	1.315E+07
SSE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.730E+05	6.730E+05	1.346E+06
S	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.360E+05	3.360E+05	1.010E+06	0.000E+00	1.682E+06
SSW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.680E+06	3.360E+05	3.360E+05	3.360E+05	2.688E+06
SW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
WSW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.040E+05	9.760E+05	1.380E+06
W	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.510E+06	1.510E+06	1.510E+06	4.530E+06
WNW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.510E+06	2.690E+06	4.200E+06
NW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.690E+06	2.690E+06
NNW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.730E+05	6.730E+05
TOTAL	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.016E+06	5.772E+06	1.004E+07	2.493E+07	4.276E+07

AVERAGE SITE DENSITY(LITERS/M**2) = 2.14E-03

1

GGNS ESP Airborne Effluents

0

SITE ANNUAL MEAT PRODUCTION (KG/YR)

DOWNWIND DISTANCE(MILES)

DIR	0-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50	TOTAL
N	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.810E+03	0.000E+00	4.140E+04	6.490E+04	1.100E+05	1.160E+05	3.351E+05
NNE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.810E+03	1.670E+04	3.940E+04	7.190E+04	8.840E+04	2.192E+05
NE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.930E+03	5.460E+03	1.930E+05	7.200E+05	1.220E+06	1.450E+06	3.590E+06
ENE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.600E+03	8.280E+03	3.310E+05	1.050E+06	2.050E+06	2.050E+06	5.499E+06
E	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.280E+03	1.110E+04	4.080E+05	8.140E+05	1.310E+06	1.310E+06	3.861E+06
ESE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.660E+04	1.110E+04	4.080E+05	9.500E+05	8.390E+05	9.770E+05	3.202E+06
SE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.310E+05	4.410E+04	6.100E+04	1.120E+06	1.556E+06
SSE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.260E+04	7.710E+04	4.500E+05	3.400E+05	2.210E+05	6.980E+05	1.799E+06
S	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.280E+03	0.000E+00	4.500E+05	3.400E+05	5.600E+05	2.760E+04	1.386E+06
SSW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.500E+05	3.400E+05	6.920E+05	5.980E+05	2.080E+06
SW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.300E+05	3.640E+04	2.210E+05	1.710E+05	5.584E+05
WSW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.110E+05	1.110E+05	3.260E+05	4.760E+05	1.124E+06
W	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.150E+03	0.000E+00	4.350E+04	1.720E+05	3.080E+05	3.150E+05	8.407E+05
WNW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.110E+04	0.000E+00	1.060E+05	2.430E+05	2.810E+05	5.970E+05	1.238E+06
NW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.110E+04	7.500E+04	7.600E+04	8.780E+04	4.680E+05	7.179E+05
NNW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.380E+05	1.200E+05	1.750E+05	6.620E+05	1.095E+06
TOTAL	0.000E+00	0.000E+00	0.000E+00	0.000E+00	7.335E+04	1.270E+05	3.783E+06	5.461E+06	8.534E+06	1.112E+07	2.910E+07

AVERAGE SITE DENSITY(KG/M**2) = 1.46E-03

0

SITE ANNUAL VEGETATION PRODUCTION (KG/YR)

DOWNWIND DISTANCE(MILES)

DIR	0-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50	TOTAL

| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
N	1.060E+04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.250E+05	4.250E+05	2.550E+05	0.000E+00	1.116E+06
NNE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.060E+04	2.750E+04	3.460E+04	7.590E+04	8.500E+04	2.336E+05
NE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.190E+05	7.650E+04	6.480E+05	1.200E+06	2.144E+06
ENE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.760E+05	2.970E+05	1.060E+06	1.060E+06	2.693E+06
E	0.000E+00	0.000E+00	4.250E+04	8.500E+04	0.000E+00	1.270E+05	4.490E+05	6.720E+04	8.500E+04	1.060E+06	1.916E+06
ESE	0.000E+00	0.000E+00	0.000E+00	4.250E+04	0.000E+00	0.000E+00	3.420E+05	8.500E+04	3.900E+05	2.320E+06	3.180E+06
SE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	6.350E+03	1.940E+05	0.000E+00	2.410E+05	8.580E+05	1.299E+06
SSE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.550E+04	0.000E+00	1.060E+05	1.070E+05	1.040E+05	3.325E+05
S	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.270E+03	2.120E+04	5.950E+04	4.250E+04	1.940E+05	3.185E+05
SSW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	3.170E+03	2.120E+04	6.370E+04	1.270E+05	6.370E+04	2.788E+05
SW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	4.250E+04	6.370E+04	0.000E+00	8.920E+04	1.954E+05
WSW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.550E+04	2.120E+05	1.270E+05	1.700E+05	5.345E+05
W	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.550E+04	0.000E+00	1.700E+05	2.550E+05	2.550E+05	7.055E+05
WNW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.700E+05	6.370E+05	2.120E+05	1.019E+06
NW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.700E+05	3.720E+04	2.072E+05
NNW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	8.500E+04	0.000E+00	0.000E+00	8.440E+05	9.290E+05
TOTAL	1.060E+04	0.000E+00	4.250E+04	1.275E+05	0.000E+00	1.894E+05	2.128E+06	1.830E+06	4.220E+06	8.552E+06	1.710E+07

AVERAGE SITE DENSITY(KG/M**2) = 8.55E-04

0 AGRICULTURAL PRODUCTIVITY

FOOD PRODUCT	ANNUAL USE UNITS/PERSON	TOTAL SITE PRODUCTION	EXPORT	TOTAL POPULATION SERVED
VEGETATION(KG)	1.97E+02	1.71E+07	0.00E+00	8.67E+04
MILK (L)	1.31E+02	4.28E+07	0.00E+00	3.27E+05
MEAT (KG)	8.06E+01	2.91E+07	0.00E+00	3.61E+05

1

GGNS ESP Airborne Effluents

0 JOB CONTROL PARAMETERS

```
JC(1) =  0  :POPULATION/INDIVIDUAL DOSE SELECTION
JC(2) =  2  :NUMBER OF SOURCE RELEASE POINTS
JC(3) =  1  :PRINT CONTROL FOR DOSE ACCUMULATION
JC(4) =  0  :READ CONTROL FOR BLOCK DATA CHANGE RECORDS
JC(5) =  0  :PRINT CONTROL FOR DOSE FACTOR TABLE
JC(6) =  0  :CALCULATION CONTROL FOR UNIT DOSE FACTORS
JC(7) =  0  :READ CONTROL FOR DISPERSION DATA INPUT FILE
JC(8) =  0
JC(9) =  0
JC(10)=  0
```

```
0
    EXPOSURE PATHWAY FRACTIONS

         PARAMETER DESCRIPTION(FRACTION)    VALUE
         ----------------------------------------
         FV   LEAFY VEGETABLE FROM GARDEN    1.00
         FG   OTHER EDIBLES FROM GARDEN       .76
         FP   TIME MILK COWS ON PASTURE      1.00
         FB   TIME BEEF ON PASTURE           1.00
         FGT  TIME MILK GOATS ON PASTURE     1.00
         FPF  MILK COW INTAKE FROM PASTURE   1.00
         FBF  BEEF INTAKE FROM PASTURE       1.00
         FPG  MILK GOAT INTAKE FROM PASTURE  1.00

         HUMIDITY(G/M**3)   8.00
         DISTANCE TO EAST COAST (MILES):  7.00E+02
0
    SOURCE TERM RELEASE NUMBER  1

         RELEASE POINT       Composite Plant Particulate 2
         UML =  1.00E+00   SOURCE TERM MULTIPLICATION FACTOR
         JC1 =  0          NEW OR PREVIOUS MET DATA PARAMETER
         JC2 =  0          NEW OR PREVIOUS SOURCE TERM RELEASE DATA PARAMETER
0          NUCLIDE     CI/YR          NUCLIDE     CI/YR
           -------     -----          -------     -----
           39Y  91   4.81E-04         52TE129M  4.38E-04
           39Y  92   1.24E-03         51SB124   3.62E-04
           39Y  93   2.22E-03         51SB125   1.83E-04
           40ZR 95   3.19E-03         52TE131M  1.51E-04
           41NB 95   1.68E-02         52TE132   3.78E-05
           42MO 99   1.19E-01         55CS134   1.24E-02
           43TC 99M  5.95E-04         55CS136   1.19E-03
           44RU103   7.03E-03         55CS137   1.89E-02
           44RU106   2.34E-04         55CS138   3.41E-04
           47AG110M  4.00E-06         56BA140   5.41E-02
0                  2.389E-01 TOTAL CURIES FOR  20 RADIONUCLIDES
1
  GGNS ESP Airborne Effluents

0                           SITE ANNUAL X/Q DATA (SEC/M**3)
                                          DOWNWIND DISTANCE(MILES)
   DIR    0-1       1-2       2-3       3-4       4-5       5-10     10-20     20-30     30-40     40-50
```

| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
N	2.623E-06	8.275E-07	3.636E-07	2.179E-07	1.500E-07	7.338E-08	2.753E-08	1.339E-08	8.441E-09	6.003E-09
NNE	1.709E-06	5.381E-07	2.357E-07	1.409E-07	9.677E-08	4.714E-08	1.755E-08	8.481E-09	5.320E-09	3.771E-09
NE	1.083E-06	3.380E-07	1.469E-07	8.730E-08	5.971E-08	2.893E-08	1.071E-08	5.166E-09	3.241E-09	2.299E-09
ENE	1.332E-06	4.165E-07	1.821E-07	1.087E-07	7.467E-08	3.645E-08	1.366E-08	6.661E-09	4.209E-09	3.001E-09
E	9.644E-07	3.001E-07	1.306E-07	7.769E-08	5.321E-08	2.586E-08	9.644E-09	4.696E-09	2.968E-09	2.117E-09
ESE	7.770E-07	2.404E-07	1.034E-07	6.097E-08	4.146E-08	1.989E-08	7.260E-09	3.480E-09	2.178E-09	1.542E-09
SE	8.906E-07	2.778E-07	1.207E-07	7.177E-08	4.911E-08	2.382E-08	8.839E-09	4.283E-09	2.697E-09	1.919E-09
SSE	1.401E-06	4.347E-07	1.874E-07	1.106E-07	7.531E-08	3.617E-08	1.322E-08	6.328E-09	3.955E-09	2.797E-09
S	2.129E-06	6.676E-07	2.913E-07	1.736E-07	1.190E-07	5.784E-08	2.150E-08	1.041E-08	6.545E-09	4.650E-09
SSW	3.677E-06	1.165E-06	5.174E-07	3.127E-07	2.167E-07	1.073E-07	4.112E-08	2.036E-08	1.298E-08	9.312E-09
SW	8.883E-06	2.834E-06	1.286E-06	7.902E-07	5.551E-07	2.820E-07	1.125E-07	5.764E-08	3.754E-08	2.736E-08
WSW	1.157E-05	3.702E-06	1.694E-06	1.048E-06	7.400E-07	3.795E-07	1.537E-07	7.961E-08	5.221E-08	3.825E-08
W	1.111E-05	3.553E-06	1.624E-06	1.004E-06	7.087E-07	3.630E-07	1.468E-07	7.593E-08	4.975E-08	3.643E-08
WNW	7.067E-06	2.256E-06	1.026E-06	6.316E-07	4.443E-07	2.263E-07	9.066E-08	4.657E-08	3.039E-08	2.218E-08
NW	4.389E-06	1.392E-06	6.208E-07	3.765E-07	2.617E-07	1.304E-07	5.046E-08	2.519E-08	1.614E-08	1.163E-08
NNW	2.849E-06	9.009E-07	3.982E-07	2.398E-07	1.657E-07	8.162E-08	3.097E-08	1.521E-08	9.644E-09	6.890E-09

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SITE ANNUAL DECAYED X/Q FOR XE-133M (SEC/M**3)

DOWNWIND DISTANCE(MILES)

DIR	0-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
---	---	---	---	---	---	---	---	---	---	---
N	2.613E-06	8.206E-07	3.583E-07	2.134E-07	1.460E-07	7.023E-08	2.519E-08	1.151E-08	6.831E-09	4.582E-09
NNE	1.702E-06	5.335E-07	2.322E-07	1.379E-07	9.415E-08	4.509E-08	1.605E-08	7.289E-09	4.307E-09	2.880E-09
NE	1.079E-06	3.352E-07	1.448E-07	8.554E-08	5.816E-08	2.772E-08	9.825E-09	4.464E-09	2.644E-09	1.773E-09
ENE	1.325E-06	4.125E-07	1.791E-07	1.062E-07	7.241E-08	3.466E-08	1.234E-08	5.607E-09	3.309E-09	2.207E-09
E	9.601E-07	2.973E-07	1.285E-07	7.594E-08	5.165E-08	2.464E-08	8.739E-09	3.969E-09	2.345E-09	1.567E-09
ESE	7.739E-07	2.384E-07	1.019E-07	5.976E-08	4.040E-08	1.906E-08	6.666E-09	3.010E-09	1.778E-09	1.189E-09
SE	8.865E-07	2.752E-07	1.188E-07	7.009E-08	4.761E-08	2.264E-08	7.973E-09	3.590E-09	2.105E-09	1.397E-09
SSE	1.396E-06	4.314E-07	1.849E-07	1.086E-07	7.351E-08	3.479E-08	1.223E-08	5.547E-09	3.292E-09	2.214E-09
S	2.121E-06	6.622E-07	2.872E-07	1.701E-07	1.159E-07	5.534E-08	1.964E-08	8.913E-09	5.263E-09	3.515E-09
SSW	3.660E-06	1.155E-06	5.094E-07	3.059E-07	2.106E-07	1.025E-07	3.745E-08	1.738E-08	1.039E-08	7.007E-09
SW	8.839E-06	2.805E-06	1.263E-06	7.706E-07	5.373E-07	2.675E-07	1.012E-07	4.817E-08	2.920E-08	1.983E-08
WSW	1.150E-05	3.653E-06	1.656E-06	1.015E-06	7.097E-07	3.546E-07	1.342E-07	6.338E-08	3.797E-08	2.545E-08
W	1.103E-05	3.506E-06	1.588E-06	9.723E-07	6.797E-07	3.392E-07	1.282E-07	6.047E-08	3.621E-08	2.427E-08
WNW	7.030E-06	2.232E-06	1.007E-06	6.154E-07	4.297E-07	2.143E-07	8.139E-08	3.885E-08	2.360E-08	1.607E-08
NW	4.370E-06	1.379E-06	6.112E-07	3.683E-07	2.544E-07	1.245E-07	4.596E-08	2.150E-08	1.293E-08	8.758E-09
NNW	2.837E-06	8.929E-07	3.922E-07	2.346E-07	1.611E-07	7.796E-08	2.824E-08	1.300E-08	7.747E-09	5.209E-09

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GGNS ESP Airborne Effluents

0 SITE ANNUAL DECAYED (FOR I-131) AND DEPLETED X/Q DATA (SEC/M**3)

DOWNWIND DISTANCE(MILES)

DIR	0-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
N	2.345E-06	7.052E-07	2.940E-07	1.693E-07	1.126E-07	5.154E-08	1.691E-08	7.130E-09	4.015E-09	2.590E-09
NNE	1.527E-06	4.585E-07	1.906E-07	1.094E-07	7.266E-08	3.311E-08	1.078E-08	4.515E-09	2.532E-09	1.628E-09
NE	9.684E-07	2.881E-07	1.188E-07	6.782E-08	4.485E-08	2.033E-08	6.584E-09	2.755E-09	1.546E-09	9.956E-10
ENE	1.190E-06	3.548E-07	1.472E-07	8.439E-08	5.601E-08	2.556E-08	8.360E-09	3.525E-09	1.986E-09	1.281E-09
E	8.621E-07	2.557E-07	1.055E-07	6.031E-08	3.993E-08	1.814E-08	5.908E-09	2.488E-09	1.402E-09	9.054E-10
ESE	6.947E-07	2.049E-07	8.362E-08	4.737E-08	3.115E-08	1.398E-08	4.467E-09	1.857E-09	1.040E-09	6.685E-10
SE	7.960E-07	2.367E-07	9.759E-08	5.571E-08	3.684E-08	1.670E-08	5.408E-09	2.264E-09	1.270E-09	8.167E-10
SSE	1.252E-06	3.706E-07	1.516E-07	8.600E-08	5.660E-08	2.545E-08	8.148E-09	3.389E-09	1.898E-09	1.221E-09
S	1.903E-06	5.690E-07	2.356E-07	1.349E-07	8.940E-08	4.063E-08	1.320E-08	5.535E-09	3.108E-09	2.002E-09
SSW	3.286E-06	9.924E-07	4.182E-07	2.428E-07	1.627E-07	7.532E-08	2.521E-08	1.082E-08	6.160E-09	4.007E-09
SW	7.939E-06	2.413E-06	1.039E-06	6.130E-07	4.162E-07	1.974E-07	6.871E-08	3.045E-08	1.768E-08	1.166E-08
WSW	1.034E-05	3.149E-06	1.366E-06	8.113E-07	5.533E-07	2.644E-07	9.301E-08	4.146E-08	2.411E-08	1.589E-08
W	9.922E-06	3.023E-06	1.310E-06	7.774E-07	5.299E-07	2.530E-07	8.883E-08	3.954E-08	2.297E-08	1.514E-08
WNW	6.316E-06	1.921E-06	8.285E-07	4.898E-07	3.330E-07	1.583E-07	5.530E-08	2.458E-08	1.430E-08	9.442E-09
NW	3.923E-06	1.186E-06	5.018E-07	2.924E-07	1.965E-07	9.150E-08	3.093E-08	1.338E-08	7.662E-09	5.004E-09
NNW	2.547E-06	7.675E-07	3.220E-07	1.862E-07	1.244E-07	5.728E-08	1.900E-08	8.085E-09	4.579E-09	2.966E-09

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SITE ANNUAL DEPOSITION DATA (1/M**2)

DOWNWIND DISTANCE(MILES)

DIR	0-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
N	7.878E-09	2.434E-09	9.686E-10	5.293E-10	3.364E-10	1.445E-10	4.481E-11	1.776E-11	9.484E-12	5.870E-12
NNE	5.525E-09	1.707E-09	6.792E-10	3.711E-10	2.359E-10	1.013E-10	3.142E-11	1.245E-11	6.650E-12	4.116E-12
NE	4.188E-09	1.294E-09	5.148E-10	2.813E-10	1.788E-10	7.681E-11	2.382E-11	9.440E-12	5.041E-12	3.120E-12
ENE	4.259E-09	1.316E-09	5.236E-10	2.861E-10	1.818E-10	7.811E-11	2.422E-11	9.600E-12	5.126E-12	3.173E-12
E	3.596E-09	1.111E-09	4.421E-10	2.416E-10	1.536E-10	6.596E-11	2.045E-11	8.106E-12	4.329E-12	2.679E-12
ESE	2.898E-09	8.954E-10	3.563E-10	1.947E-10	1.237E-10	5.315E-11	1.648E-11	6.533E-12	3.489E-12	2.159E-12
SE	2.792E-09	8.625E-10	3.432E-10	1.876E-10	1.192E-10	5.120E-11	1.588E-11	6.293E-12	3.361E-12	2.080E-12
SSE	6.142E-09	1.897E-09	7.550E-10	4.126E-10	2.622E-10	1.126E-10	3.493E-11	1.384E-11	7.393E-12	4.576E-12
S	7.654E-09	2.365E-09	9.409E-10	5.142E-10	3.268E-10	1.404E-10	4.353E-11	1.725E-11	9.213E-12	5.702E-12
SSW	8.011E-09	2.475E-09	9.849E-10	5.382E-10	3.421E-10	1.469E-10	4.556E-11	1.806E-11	9.643E-12	5.969E-12
SW	1.107E-08	3.421E-09	1.361E-09	7.439E-10	4.728E-10	2.031E-10	6.298E-11	2.496E-11	1.333E-11	8.250E-12
WSW	8.654E-09	2.674E-09	1.064E-09	5.814E-10	3.695E-10	1.587E-10	4.922E-11	1.951E-11	1.042E-11	6.448E-12
W	8.265E-09	2.553E-09	1.016E-09	5.552E-10	3.529E-10	1.516E-10	4.701E-11	1.863E-11	9.949E-12	6.158E-12
WNW	7.327E-09	2.264E-09	9.007E-10	4.922E-10	3.128E-10	1.344E-10	4.167E-11	1.652E-11	8.819E-12	5.459E-12
NW	8.707E-09	2.690E-09	1.070E-09	5.849E-10	3.718E-10	1.597E-10	4.952E-11	1.963E-11	1.048E-11	6.487E-12
NNW	7.488E-09	2.314E-09	9.206E-10	5.031E-10	3.197E-10	1.373E-10	4.259E-11	1.688E-11	9.014E-12	5.579E-12

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GGNS ESP Airborne Effluents

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JS	SPECIAL LOCATION	DIR	MILES	X/Q	X/Q:DEC	X/Q:DCDP	DEPOSITE	REPORT CONTROL FLAGS PL	GD	VT	MT	CM	GM	IN
0	Local Residence	NNE	.64	2.10E-06	2.10E-06	1.90E-06	7.00E-09	0	1	1	1	1	1	0
0	Nearest Garden	ENE	.63	1.70E-06	1.70E-06	1.50E-06	5.40E-09	1	1	0	1	1	1	1
0	Site Boundary	N	.58	3.90E-06	3.90E-06	3.50E-06	1.20E-08	0	1	1	1	1	1	0
0	Nearest Milk Cow	SSW	10.00	7.01E-08	6.58E-08	4.63E-08	8.65E-11	1	1	1	1	0	1	1
0	Nearest Meat Cow	S	4.00	1.41E-07	1.38E-07	1.08E-07	4.01E-10	1	1	1	0	1	1	1

0 REPORTS ARE NOT PRINTED IF JS=1 OR CONTROL FLAGS=1

FLAGS:
PL - PLUME
GD - GROUND
VT - VEGETABLE
MT - MEAT
CM - COW MILK
GM - GOAT MILK
IN - INHALATION

1

GGNS ESP Airborne Effluents
Composite Plant Particulate 2

RELEASE, ENVIRONS INVENTORY, AND ANNUAL PATHWAY INVENTORIES-CI

NUCLIDE	RELEASE	ENVIRON	GROUND	VEGETATION	MILK	MEAT
Y 91	4.81E-04	1.11E-04	5.37E-05	2.98E-10	7.73E-13	2.94E-10
Y 92	1.24E-03	7.25E-07	1.51E-07	0.00E+00	2.14E-23	0.00E+00
Y 93	2.22E-03	3.68E-06	1.18E-06	0.00E+00	7.93E-17	1.57E-25
ZR 95	3.19E-03	8.09E-04	3.91E-04	2.14E-09	2.60E-12	1.49E-08
NB 95	1.68E-02	2.34E-03	1.12E-03	5.81E-09	5.99E-09	4.90E-07
MO 99	1.19E-01	1.29E-03	5.80E-04	7.90E-15	1.13E-08	2.20E-10
TC 99M	5.95E-04	5.89E-07	1.56E-07	0.00E+00	2.12E-16	2.98E-34
RU103	7.03E-03	1.09E-03	5.26E-04	2.85E-09	1.04E-12	3.13E-07
RU106	2.34E-04	3.40E-04	1.65E-04	3.27E-10	4.50E-14	1.74E-08
AG110M	4.00E-06	3.96E-06	1.92E-06	5.54E-12	3.89E-11	1.26E-11
TE129M	4.38E-04	5.81E-05	2.80E-05	1.67E-10	6.61E-11	3.66E-09
SB124	3.62E-04	8.63E-05	4.17E-05	2.31E-10	8.78E-11	1.95E-10
SB125	1.83E-04	7.26E-04	3.52E-04	2.74E-10	5.33E-11	1.40E-10

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 *  TE131M 1.51E-04 7.46E-07 3.07E-07 6.50E-26 2.37E-13 2.78E-15 *
 *  TE132  3.78E-05 4.87E-07 2.21E-07 3.36E-17 6.75E-13 1.79E-12 *
 *  CS134  1.24E-02 3.67E-02 1.78E-02 1.80E-08 2.86E-08 9.39E-09 *
 *  CS136  1.19E-03 6.16E-05 2.94E-05 3.82E-11 1.29E-09 1.85E-10 *
 *  CS137  1.89E-02 3.03E-01 1.47E-01 3.24E-08 4.62E-08 1.54E-08 *
 *  CS138  3.41E-04 3.02E-08 1.88E-09 0.00E+00 0.00E+00 0.00E+00 *
 *  BA140  5.41E-02 2.74E-03 1.30E-03 1.58E-09 1.92E-09 6.48E-09 *
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  GGNS ESP Airborne Effluents

0
    SOURCE TERM RELEASE NUMBER  2

         RELEASE POINT       Composite Plant Particulate 3
         UML =  1.00E+00   SOURCE TERM MULTIPLICATION FACTOR
         JC1 =  1          NEW OR PREVIOUS MET DATA PARAMETER
         JC2 =  0          NEW OR PREVIOUS SOURCE TERM RELEASE DATA PARAMETER
0          NUCLIDE     CI/YR          NUCLIDE     CI/YR
           -------     -----          -------     -----
           57LA140   3.62E-03         30ZN 65   2.22E-02
           58CE141   1.84E-02         37RB 89   8.65E-05
           58CE144   3.78E-05         38SR 89   1.14E-02
           59PR144   3.78E-05         38SR 90   3.60E-03
           74W 187   3.78E-04         39Y  90   9.19E-05
           93NP239   2.38E-02         38SR 91   2.00E-03
           38SR 92   1.57E-03
0                  8.722E-02 TOTAL CURIES FOR  13 RADIONUCLIDES
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  GGNS ESP Airborne Effluents
    Composite Plant Particulate 3

  RELEASE, ENVIRONS  INVENTORY, AND ANNUAL PATHWAY INVENTORIES-CI

   NUCLIDE RELEASE  ENVIRON   GROUND VEGETATION  MILK     MEAT
 +-------------------------------------------------------------+
 *  LA140  3.62E-03 2.40E-05 1.03E-05 9.76E-21 7.03E-14 4.04E-15 *
 *  CE141  1.84E-02 2.36E-03 1.14E-03 5.63E-09 2.56E-10 2.19E-09 *
 *  CE144  3.78E-05 4.25E-05 2.06E-05 4.79E-11 7.04E-13 8.11E-12 *
 *  PR144  3.78E-05 1.79E-09 5.80E-11 0.00E+00 0.00E+00 0.00E+00 *
 *  W 187  3.78E-04 1.49E-06 5.91E-07 2.59E-29 1.23E-13 5.21E-18 *
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 *  NP239  2.38E-02 2.22E-04 9.83E-05 1.14E-16 1.09E-12 4.13E-13 *
 *  ZN 65  2.22E-02 2.14E-02 1.04E-02 3.59E-08 1.82E-07 1.33E-07 *
 *  RB 89  8.65E-05 3.62E-09 1.00E-10 0.00E+00 0.00E+00 0.00E+00 *
 *  SR 89  1.14E-02 2.27E-03 1.10E-03 6.15E-09 1.42E-09 8.58E-10 *
 *  SR 90  3.60E-03 5.70E-02 2.76E-02 6.63E-09 6.08E-10 4.54E-10 *
 *  Y  90  9.19E-05 9.71E-07 4.35E-07 3.91E-18 1.10E-14 8.28E-14 *
 *  SR 91  2.00E-03 3.12E-06 9.80E-07 0.00E+00 3.36E-15 2.10E-27 *
 *  SR 92  1.57E-03 7.01E-07 1.27E-07 0.00E+00 2.90E-24 0.00E+00 *
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GGNS ESP Airborne Effluents
ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (PERSON-REM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
GROUND	3.83E-02	3.83E-02	3.83E-02	3.83E-02	3.83E-02	3.83E-02	3.83E-02	4.46E-02
	66.35%	54.38%	22.79%	52.06%	72.29%	99.95%	63.64%	100.00%
INHAL	1.72E-03	4.71E-03	1.27E-02	2.55E-03	9.91E-04	1.70E-07	1.89E-02	0.00E+00
	2.99%	6.68%	7.59%	3.46%	1.87%	.00%	31.47%	.00%
VEGET	6.11E-03	2.79E-03	8.89E-02	9.18E-03	3.26E-03	1.05E-06	9.70E-04	0.00E+00
	10.59%	3.96%	52.90%	12.49%	6.15%	.00%	1.61%	.00%
COW MILK	8.17E-03	2.30E-03	1.97E-02	1.76E-02	7.13E-03	4.61E-07	1.57E-03	0.00E+00
	14.16%	3.26%	11.71%	23.89%	13.45%	.00%	2.61%	.00%
MEAT	3.42E-03	2.23E-02	8.42E-03	5.96E-03	3.31E-03	1.84E-05	4.06E-04	0.00E+00
	5.92%	31.72%	5.01%	8.10%	6.24%	.05%	.68%	.00%
TOTAL	5.77E-02	7.04E-02	1.68E-01	7.36E-02	5.30E-02	3.83E-02	6.02E-02	4.46E-02

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GGNS ESP Airborne Effluents
NEPA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (PERSON-REM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
GROUND	3.83E-02	3.83E-02	3.83E-02	3.83E-02	3.83E-02	3.83E-02	3.83E-02	4.46E-02
	66.35%	54.38%	22.79%	52.06%	72.29%	99.95%	63.64%	100.00%

INHAL	1.72E-03	4.71E-03	1.27E-02	2.55E-03	9.91E-04	1.70E-07	1.89E-02	0.00E+00
	2.99%	6.68%	7.59%	3.46%	1.87%	.00%	31.47%	.00%
VEGET	6.11E-03	2.79E-03	8.89E-02	9.18E-03	3.26E-03	1.05E-06	9.70E-04	0.00E+00
	10.59%	3.96%	52.90%	12.49%	6.15%	.00%	1.61%	.00%
COW MILK	8.17E-03	2.30E-03	1.97E-02	1.76E-02	7.13E-03	4.61E-07	1.57E-03	0.00E+00
	14.16%	3.26%	11.71%	23.89%	13.45%	.00%	2.61%	.00%
MEAT	3.42E-03	2.23E-02	8.42E-03	5.96E-03	3.31E-03	1.84E-05	4.06E-04	0.00E+00
	5.92%	31.72%	5.01%	8.10%	6.24%	.05%	.68%	.00%
TOTAL	5.77E-02	7.04E-02	1.68E-01	7.36E-02	5.30E-02	3.83E-02	6.02E-02	4.46E-02

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GGNS ESP Airborne Effluents
ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (PERSON-REM)
PATHWAY = *TOTAL*

NUCLIDE	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
Y 91	7.32E-07	6.22E-05	2.53E-05	5.55E-08	5.55E-08	5.55E-08	8.93E-05	6.24E-08
	.00%	.09%	.02%	.00%	.00%	.00%	.15%	.00%
Y 92	4.93E-09	1.87E-06	5.14E-09	4.93E-09	4.93E-09	4.93E-09	3.07E-07	5.85E-09
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
Y 93	2.22E-08	3.78E-05	3.20E-08	2.19E-08	2.19E-08	2.19E-08	4.99E-06	3.00E-08
	.00%	.05%	.00%	.00%	.00%	.00%	.00%	.00%
ZR 95	9.21E-05	6.41E-04	1.22E-04	9.52E-05	1.01E-04	8.41E-05	6.60E-04	9.76E-05
	.16%	.91%	.07%	.13%	.19%	.22%	1.10%	.22%
NB 95	2.55E-04	1.07E-02	2.76E-04	2.62E-04	2.61E-04	2.47E-04	1.10E-03	2.90E-04
	.44%	15.14%	.16%	.36%	.49%	.64%	1.83%	.65%
MO 99	6.24E-05	2.35E-03	4.55E-05	1.23E-04	2.18E-04	4.55E-05	1.06E-03	5.27E-05
	.11%	3.33%	.03%	.17%	.41%	.12%	1.76%	.12%
TC 99M	4.07E-09	7.06E-08	4.07E-09	4.07E-09	4.07E-09	4.07E-09	1.65E-08	4.66E-09

	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
RU103	1.13E-04	6.89E-03	1.57E-04	8.15E-05	3.44E-04	8.15E-05	4.47E-04	9.51E-05
	.20%	9.79%	.09%	.11%	.65%	.21%	.74%	.21%
RU106	1.90E-05	3.21E-03	7.65E-05	1.07E-05	1.27E-04	1.07E-05	2.50E-04	1.28E-05
	.03%	4.56%	.05%	.01%	.24%	.03%	.42%	.03%
AG110M	1.50E-06	4.80E-06	1.51E-06	1.50E-06	1.52E-06	1.49E-06	3.35E-06	1.74E-06
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TE129M	1.03E-05	2.42E-04	6.08E-05	2.17E-05	2.29E-04	2.10E-05	5.56E-05	1.08E-06
	.02%	.34%	.04%	.03%	.43%	.05%	.09%	.00%
SB124	2.46E-05	7.53E-05	2.67E-05	2.34E-05	2.33E-05	2.33E-05	1.17E-04	2.69E-05
	.04%	.11%	.02%	.03%	.04%	.06%	.20%	.06%
SB125	4.75E-05	5.75E-05	4.94E-05	4.70E-05	4.70E-05	4.70E-05	8.12E-05	5.31E-05
	.08%	.08%	.03%	.06%	.09%	.12%	.13%	.12%
TE131M	1.02E-07	5.43E-06	1.03E-07	1.02E-07	1.08E-07	1.03E-07	1.81E-06	1.19E-07
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TE132	2.13E-08	1.55E-06	2.54E-08	2.14E-08	6.85E-08	2.23E-08	1.01E-06	1.84E-08
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
CS134	1.60E-02	9.35E-03	1.52E-02	2.15E-02	1.31E-02	9.20E-03	1.06E-02	1.07E-02
	27.77%	13.27%	9.05%	29.20%	24.76%	24.01%	17.56%	24.04%
CS136	6.76E-05	2.41E-05	3.95E-05	8.89E-05	5.76E-05	1.88E-05	2.44E-05	2.14E-05
	.12%	.03%	.02%	.12%	.11%	.05%	.04%	.05%
CS137	3.32E-02	2.68E-02	4.00E-02	4.22E-02	3.19E-02	2.66E-02	2.84E-02	3.10E-02
	57.56%	38.07%	23.79%	57.43%	60.12%	69.42%	47.26%	69.51%
CS138	2.00E-10	1.51E-10	2.03E-10	2.46E-10	2.22E-10	1.44E-10	1.52E-10	1.64E-10
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
BA140	1.50E-04	1.51E-03	6.38E-04	1.18E-04	1.17E-04	1.17E-04	7.14E-03	1.34E-04
	.26%	2.14%	.38%	.16%	.22%	.31%	11.87%	.30%
LA140	6.22E-06	1.18E-04	6.32E-06	6.26E-06	6.21E-06	6.21E-06	4.68E-05	7.04E-06

	.01%	.17%	.00%	.00%	.01%	.02%	.08%	.02%
CE141	3.00E-05	4.09E-04	6.81E-05	5.27E-05	3.87E-05	2.69E-05	7.41E-04	3.03E-05
	.05%	.58%	.04%	.07%	.07%	.07%	1.23%	.07%
CE144	1.08E-06	1.24E-05	1.51E-05	6.00E-06	3.62E-06	2.84E-07	3.24E-05	3.28E-07
	.00%	.02%	.00%	.00%	.00%	.00%	.05%	.00%
PR144	2.79E-14	2.16E-13	2.81E-14	2.80E-14	2.80E-14	2.79E-14	6.36E-12	3.21E-14
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
W 187	7.03E-08	3.54E-06	7.05E-08	7.05E-08	7.03E-08	7.03E-08	8.59E-07	8.16E-08
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
NP239	3.86E-06	2.10E-04	4.37E-06	4.27E-06	3.98E-06	3.84E-06	8.65E-05	4.44E-06
	.00%	.30%	.00%	.00%	.00%	.01%	.14%	.00%
ZN 65	5.39E-03	5.03E-03	4.13E-03	8.90E-03	6.43E-03	1.79E-03	3.70E-03	2.05E-03
	9.34%	7.14%	2.46%	12.09%	12.13%	4.66%	6.15%	4.60%
RB 89	5.19E-12	3.32E-12	3.32E-12	5.99E-12	3.32E-12	3.32E-12	3.32E-12	3.98E-12
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 89	1.34E-04	7.59E-04	4.68E-03	2.64E-08	2.64E-08	2.64E-08	1.74E-03	3.07E-08
	.23%	1.08%	2.79%	.00%	.00%	.00%	2.88%	.00%
SR 90	2.06E-03	1.93E-03	1.02E-01	0.00E+00	0.00E+00	0.00E+00	3.78E-03	0.00E+00
	3.56%	2.75%	60.95%	.00%	.00%	.00%	6.29%	.00%
Y 90	5.43E-10	3.45E-06	1.88E-08	3.95E-11	3.95E-11	3.95E-11	1.47E-06	4.67E-11
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 91	2.23E-07	1.49E-05	2.29E-07	2.23E-07	2.23E-07	2.23E-07	3.39E-06	2.61E-07
	.00%	.02%	.00%	.00%	.00%	.00%	.00%	.00%
SR 92	1.92E-08	1.25E-06	1.93E-08	1.92E-08	1.92E-08	1.92E-08	2.88E-07	2.14E-08
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TOTAL	5.77E-02	7.04E-02	1.68E-01	7.36E-02	5.30E-02	3.83E-02	6.02E-02	4.46E-02

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GGNS ESP Airborne Effluents
ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (PERSON-REM)
PATHWAY = GROUND

NUCLIDE	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
Y 91	5.55E-08	5.55E-08	5.55E-08	5.55E-08	5.55E-08	5.55E-08	5.55E-08	6.24E-08
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
Y 92	4.93E-09	4.93E-09	4.93E-09	4.93E-09	4.93E-09	4.93E-09	4.93E-09	5.85E-09
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
Y 93	2.19E-08	2.19E-08	2.19E-08	2.19E-08	2.19E-08	2.19E-08	2.19E-08	3.00E-08
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
ZR 95	8.41E-05	8.41E-05	8.41E-05	8.41E-05	8.41E-05	8.41E-05	8.41E-05	9.76E-05
	.22%	.22%	.22%	.22%	.22%	.22%	.22%	.22%
NB 95	2.47E-04	2.47E-04	2.47E-04	2.47E-04	2.47E-04	2.47E-04	2.47E-04	2.90E-04
	.64%	.64%	.64%	.64%	.64%	.64%	.64%	.65%
MO 99	4.55E-05	4.55E-05	4.55E-05	4.55E-05	4.55E-05	4.55E-05	4.55E-05	5.27E-05
	.12%	.12%	.12%	.12%	.12%	.12%	.12%	.12%
TC 99M	4.07E-09	4.07E-09	4.07E-09	4.07E-09	4.07E-09	4.07E-09	4.07E-09	4.66E-09
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
RU103	8.15E-05	8.15E-05	8.15E-05	8.15E-05	8.15E-05	8.15E-05	8.15E-05	9.51E-05
	.21%	.21%	.21%	.21%	.21%	.21%	.21%	.21%
RU106	1.07E-05	1.07E-05	1.07E-05	1.07E-05	1.07E-05	1.07E-05	1.07E-05	1.28E-05
	.03%	.03%	.03%	.03%	.03%	.03%	.03%	.03%
AG110M	1.49E-06	1.49E-06	1.49E-06	1.49E-06	1.49E-06	1.49E-06	1.49E-06	1.74E-06
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TE129M	9.26E-07	9.26E-07	9.26E-07	9.26E-07	9.26E-07	9.26E-07	9.26E-07	1.08E-06
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SB124	2.33E-05	2.33E-05	2.33E-05	2.33E-05	2.33E-05	2.33E-05	2.33E-05	2.69E-05
	.06%	.06%	.06%	.06%	.06%	.06%	.06%	.06%

SB125	4.70E-05	4.70E-05	4.70E-05	4.70E-05	4.70E-05	4.70E-05	4.70E-05	5.31E-05
	.12%	.12%	.12%	.12%	.12%	.12%	.12%	.12%
TE131M	1.01E-07	1.01E-07	1.01E-07	1.01E-07	1.01E-07	1.01E-07	1.01E-07	1.19E-07
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TE132	1.56E-08	1.56E-08	1.56E-08	1.56E-08	1.56E-08	1.56E-08	1.56E-08	1.84E-08
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
CS134	9.20E-03	9.20E-03	9.20E-03	9.20E-03	9.20E-03	9.20E-03	9.20E-03	1.07E-02
	24.02%	24.02%	24.02%	24.02%	24.02%	24.02%	24.02%	24.04%
CS136	1.88E-05	1.88E-05	1.88E-05	1.88E-05	1.88E-05	1.88E-05	1.88E-05	2.14E-05
	.05%	.05%	.05%	.05%	.05%	.05%	.05%	.05%
CS137	2.66E-02	2.66E-02	2.66E-02	2.66E-02	2.66E-02	2.66E-02	2.66E-02	3.10E-02
	69.45%	69.45%	69.45%	69.45%	69.45%	69.45%	69.45%	69.51%
CS138	1.44E-10	1.44E-10	1.44E-10	1.44E-10	1.44E-10	1.44E-10	1.44E-10	1.64E-10
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
BA140	1.17E-04	1.17E-04	1.17E-04	1.17E-04	1.17E-04	1.17E-04	1.17E-04	1.34E-04
	.31%	.31%	.31%	.31%	.31%	.31%	.31%	.30%
LA140	6.21E-06	6.21E-06	6.21E-06	6.21E-06	6.21E-06	6.21E-06	6.21E-06	7.04E-06
	.02%	.02%	.02%	.02%	.02%	.02%	.02%	.02%
CE141	2.69E-05	2.69E-05	2.69E-05	2.69E-05	2.69E-05	2.69E-05	2.69E-05	3.03E-05
	.07%	.07%	.07%	.07%	.07%	.07%	.07%	.07%
CE144	2.84E-07	2.84E-07	2.84E-07	2.84E-07	2.84E-07	2.84E-07	2.84E-07	3.28E-07
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
PR144	2.79E-14	2.79E-14	2.79E-14	2.79E-14	2.79E-14	2.79E-14	2.79E-14	3.21E-14
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
W 187	7.03E-08	7.03E-08	7.03E-08	7.03E-08	7.03E-08	7.03E-08	7.03E-08	8.16E-08
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
NP239	3.84E-06	3.84E-06	3.84E-06	3.84E-06	3.84E-06	3.84E-06	3.84E-06	4.44E-06
	.01%	.01%	.01%	.01%	.01%	.01%	.01%	.00%

ZN 65	1.79E-03	1.79E-03	1.79E-03	1.79E-03	1.79E-03	1.79E-03	1.79E-03	2.05E-03
	4.66%	4.66%	4.66%	4.66%	4.66%	4.66%	4.66%	4.60%
RB 89	3.32E-12	3.32E-12	3.32E-12	3.32E-12	3.32E-12	3.32E-12	3.32E-12	3.98E-12
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 89	2.64E-08	2.64E-08	2.64E-08	2.64E-08	2.64E-08	2.64E-08	2.64E-08	3.07E-08
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
Y 90	3.95E-11	3.95E-11	3.95E-11	3.95E-11	3.95E-11	3.95E-11	3.95E-11	4.67E-11
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 91	2.23E-07	2.23E-07	2.23E-07	2.23E-07	2.23E-07	2.23E-07	2.23E-07	2.61E-07
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 92	1.92E-08	1.92E-08	1.92E-08	1.92E-08	1.92E-08	1.92E-08	1.92E-08	2.14E-08
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TOTAL	3.83E-02	3.83E-02	3.83E-02	3.83E-02	3.83E-02	3.83E-02	3.83E-02	4.46E-02

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GGNS ESP Airborne Effluents
ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (PERSON-REM)
PATHWAY = INHAL

NUCLIDE	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
Y 91	6.73E-07	1.56E-05	2.52E-05	0.00E+00	0.00E+00	0.00E+00	8.92E-05	0.00E+00
	.04%	.33%	.20%	.00%	.00%	.00%	.47%	.00%
Y 92	6.01E-12	1.86E-06	2.07E-10	0.00E+00	0.00E+00	0.00E+00	3.02E-07	0.00E+00
	.00%	.04%	.00%	.00%	.00%	.00%	.00%	.00%
Y 93	2.78E-10	3.78E-05	1.01E-08	0.00E+00	0.00E+00	0.00E+00	4.97E-06	0.00E+00
	.00%	.80%	.00%	.00%	.00%	.00%	.03%	.00%
ZR 95	7.87E-06	3.96E-05	3.73E-05	1.09E-05	1.67E-05	0.00E+00	5.76E-04	0.00E+00
	.46%	.84%	.29%	.43%	1.68%	.00%	3.04%	.00%
NB 95	7.41E-06	1.41E-04	2.52E-05	1.29E-05	1.26E-05	0.00E+00	8.53E-04	0.00E+00
	.43%	2.99%	.20%	.51%	1.27%	.00%	4.50%	.00%

MO 99	2.63E-07	2.18E-03	0.00E+00	1.29E-06	3.08E-06	0.00E+00	1.01E-03	0.00E+00
	.02%	46.35%	.00%	.05%	.31%	.00%	5.35%	.00%
TC 99M	6.24E-13	6.65E-08	1.78E-14	4.62E-14	6.93E-13	0.00E+00	1.24E-08	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
RU103	4.92E-07	6.37E-05	1.18E-06	0.00E+00	4.03E-06	0.00E+00	3.65E-04	0.00E+00
	.03%	1.35%	.00%	.00%	.41%	.00%	1.93%	.00%
RU106	2.31E-07	1.81E-05	1.84E-06	0.00E+00	3.24E-06	0.00E+00	2.39E-04	0.00E+00
	.01%	.38%	.01%	.00%	.33%	.00%	1.26%	.00%
AG110M	2.51E-09	9.77E-08	4.55E-09	3.94E-09	7.64E-09	0.00E+00	1.87E-06	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TE129M	7.73E-08	1.41E-05	4.80E-07	2.12E-07	1.64E-06	1.65E-07	5.47E-05	0.00E+00
	.00%	.30%	.00%	.00%	.17%	96.87%	.29%	.00%
SB124	4.77E-07	1.21E-05	1.25E-06	2.14E-08	0.00E+00	2.91E-09	9.27E-05	0.00E+00
	.03%	.26%	.00%	.00%	.00%	1.72%	.49%	.00%
SB125	2.49E-07	1.53E-06	1.09E-06	1.10E-08	0.00E+00	1.06E-09	3.33E-05	0.00E+00
	.01%	.03%	.00%	.00%	.00%	.63%	.18%	.00%
TE131M	3.50E-10	5.30E-06	8.66E-10	4.93E-10	3.47E-09	6.61E-10	1.70E-06	0.00E+00
	.00%	.11%	.00%	.00%	.00%	.39%	.00%	.00%
TE132	5.78E-10	1.36E-06	9.65E-10	7.26E-10	4.87E-09	6.79E-10	9.99E-07	0.00E+00
	.00%	.03%	.00%	.00%	.00%	.40%	.00%	.00%
CS134	7.13E-04	1.06E-05	5.05E-04	1.05E-03	3.52E-04	0.00E+00	1.24E-04	0.00E+00
	41.33%	.22%	3.96%	41.16%	35.47%	.00%	.65%	.00%
CS136	1.23E-05	1.10E-06	4.84E-06	1.67E-05	9.67E-06	0.00E+00	1.41E-06	0.00E+00
	.71%	.02%	.04%	.66%	.98%	.00%	.00%	.00%
CS137	6.36E-04	1.33E-05	1.01E-03	1.20E-03	4.26E-04	0.00E+00	1.50E-04	0.00E+00
	36.86%	.28%	7.96%	47.15%	42.99%	.00%	.79%	.00%
CS138	5.65E-11	7.24E-12	5.96E-11	1.02E-10	7.83E-11	0.00E+00	8.25E-12	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%

BA140	1.46E-05	9.68E-04	2.30E-04	2.63E-07	8.87E-08	0.00E+00	7.02E-03	0.00E+00
	.85%	20.57%	1.80%	.01%	.00%	.00%	37.09%	.00%
LA140	1.41E-08	1.11E-04	1.10E-07	5.03E-08	0.00E+00	0.00E+00	4.06E-05	0.00E+00
	.00%	2.36%	.00%	.00%	.00%	.00%	.21%	.00%
CE141	3.12E-06	1.85E-04	4.12E-05	2.57E-05	1.18E-05	0.00E+00	7.14E-04	0.00E+00
	.18%	3.93%	.32%	1.01%	1.19%	.00%	3.77%	.00%
CE144	7.89E-07	2.62E-06	1.47E-05	5.70E-06	3.33E-06	0.00E+00	3.21E-05	0.00E+00
	.05%	.06%	.12%	.22%	.34%	.00%	.17%	.00%
PR144	9.87E-18	1.88E-13	1.95E-16	7.48E-17	4.17E-17	0.00E+00	6.33E-12	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
W 187	6.92E-11	3.47E-06	2.44E-10	1.86E-10	0.00E+00	0.00E+00	7.89E-07	0.00E+00
	.00%	.07%	.00%	.00%	.00%	.00%	.00%	.00%
NP239	2.79E-08	2.06E-04	5.30E-07	4.29E-07	1.46E-07	0.00E+00	8.26E-05	0.00E+00
	.00%	4.39%	.00%	.02%	.01%	.00%	.44%	.00%
ZN 65	1.09E-04	9.50E-05	7.20E-05	2.24E-04	1.47E-04	0.00E+00	1.92E-03	0.00E+00
	6.29%	2.02%	.57%	8.78%	14.85%	.00%	10.12%	.00%
RB 89	1.87E-12	3.22E-15	0.00E+00	2.67E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 89	1.12E-05	3.36E-04	3.91E-04	0.00E+00	0.00E+00	0.00E+00	1.74E-03	0.00E+00
	.65%	7.14%	3.07%	.00%	.00%	.00%	9.16%	.00%
SR 90	2.08E-04	2.21E-04	1.04E-02	0.00E+00	0.00E+00	0.00E+00	3.78E-03	0.00E+00
	12.06%	4.69%	81.43%	.00%	.00%	.00%	19.98%	.00%
Y 90	5.04E-10	3.44E-06	1.87E-08	0.00E+00	0.00E+00	0.00E+00	1.47E-06	0.00E+00
	.00%	.07%	.00%	.00%	.00%	.00%	.00%	.00%
SR 91	2.25E-10	1.47E-05	5.67E-09	0.00E+00	0.00E+00	0.00E+00	3.17E-06	0.00E+00
	.00%	.31%	.00%	.00%	.00%	.00%	.02%	.00%
SR 92	4.88E-12	1.23E-06	1.16E-10	0.00E+00	0.00E+00	0.00E+00	2.69E-07	0.00E+00
	.00%	.03%	.00%	.00%	.00%	.00%	.00%	.00%

TOTAL	1.72E-03	4.71E-03	1.27E-02	2.55E-03	9.91E-04	1.70E-07	1.89E-02	0.00E+00

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GGNS ESP Airborne Effluents
ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (PERSON-REM)
PATHWAY = VEGET

NUCLIDE	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
Y 91	1.86E-09	2.35E-05	6.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.84%	.00%	.00%	.00%	.00%	.00%	.00%
ZR 95	2.11E-08	6.41E-05	1.01E-07	2.79E-08	4.21E-08	0.00E+00	0.00E+00	0.00E+00
	.00%	2.30%	.00%	.00%	.00%	.00%	.00%	.00%
NB 95	1.60E-08	1.16E-04	5.50E-08	2.66E-08	2.58E-08	0.00E+00	0.00E+00	0.00E+00
	.00%	4.15%	.00%	.00%	.00%	.00%	.00%	.00%
MO 99	1.04E-11	8.13E-11	0.00E+00	4.88E-11	1.08E-10	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
RU103	3.43E-07	6.01E-05	8.39E-07	0.00E+00	2.68E-06	0.00E+00	0.00E+00	0.00E+00
	.00%	2.16%	.00%	.00%	.08%	.00%	.00%	.00%
RU106	1.87E-07	5.89E-05	1.49E-06	0.00E+00	2.46E-06	0.00E+00	0.00E+00	0.00E+00
	.00%	2.11%	.00%	.00%	.08%	.00%	.00%	.00%
AG110M	7.15E-10	3.13E-07	1.30E-09	1.07E-09	2.06E-09	0.00E+00	0.00E+00	0.00E+00
	.00%	.01%	.00%	.00%	.00%	.00%	.00%	.00%
TE129M	4.97E-07	9.81E-06	3.17E-06	1.04E-06	1.14E-05	1.05E-06	0.00E+00	0.00E+00
	.00%	.35%	.00%	.01%	.35%	99.70%	.00%	.00%
SB124	3.86E-07	1.79E-05	1.03E-06	1.66E-08	0.00E+00	2.38E-09	7.08E-07	0.00E+00
	.00%	.64%	.00%	.00%	.00%	.23%	.07%	.00%
SB125	1.76E-07	5.25E-06	7.84E-07	7.50E-09	0.00E+00	7.60E-10	5.38E-07	0.00E+00
	.00%	.19%	.00%	.00%	.00%	.07%	.06%	.00%
TE131M	7.13E-23	5.75E-21	1.84E-22	7.73E-23	7.73E-22	1.36E-22	0.00E+00	0.00E+00

	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TE132	7.76E-14	2.36E-12	1.36E-13	7.48E-14	7.10E-13	9.17E-14	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
CS134	1.98E-03	4.47E-05	1.74E-03	3.56E-03	1.13E-03	0.00E+00	3.94E-04	0.00E+00
	32.37%	1.60%	1.96%	38.81%	34.81%	.00%	40.66%	.00%
CS136	8.90E-07	1.06E-07	3.78E-07	1.29E-06	7.07E-07	0.00E+00	1.02E-07	0.00E+00
	.01%	.00%	.00%	.01%	.02%	.00%	.01%	.00%
CS137	2.08E-03	6.74E-05	4.18E-03	4.90E-03	1.64E-03	0.00E+00	5.74E-04	0.00E+00
	33.96%	2.42%	4.70%	53.39%	50.36%	.00%	59.19%	.00%
BA140	3.23E-06	6.68E-05	5.21E-05	5.61E-08	1.88E-08	0.00E+00	3.33E-08	0.00E+00
	.05%	2.40%	.06%	.00%	.00%	.00%	.00%	.00%
LA140	4.94E-21	9.21E-16	3.92E-20	1.69E-20	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
CE141	6.56E-09	1.38E-04	8.69E-08	5.14E-08	2.34E-08	0.00E+00	0.00E+00	0.00E+00
	.00%	4.94%	.00%	.00%	.00%	.00%	.00%	.00%
CE144	2.07E-09	8.01E-06	3.86E-08	1.42E-08	8.22E-09	0.00E+00	0.00E+00	0.00E+00
	.00%	.29%	.00%	.00%	.00%	.00%	.00%	.00%
W 187	1.22E-27	7.81E-25	4.36E-27	3.14E-27	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
NP239	1.19E-17	2.85E-12	2.28E-16	1.94E-17	5.89E-17	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
ZN 65	3.65E-04	3.21E-04	2.37E-04	7.14E-04	4.66E-04	0.00E+00	0.00E+00	0.00E+00
	5.97%	11.52%	.27%	7.78%	14.30%	.00%	.00%	.00%
SR 89	8.98E-05	3.08E-04	3.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	1.47%	11.06%	3.53%	.00%	.00%	.00%	.00%	.00%
SR 90	1.60E-03	1.48E-03	7.95E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	26.14%	53.00%	89.48%	.00%	.00%	.00%	.00%	.00%
Y 90	1.67E-18	4.15E-13	6.22E-17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TOTAL	6.11E-03	2.79E-03	8.89E-02	9.18E-03	3.26E-03	1.05E-06	9.70E-04	0.00E+00

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GGNS ESP Airborne Effluents
ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (PERSON-REM)
PATHWAY = COW MILK

NUCLIDE	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
Y 91	5.35E-12	6.11E-08	2.00E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
Y 92	9.58E-25	8.30E-19	3.32E-23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
Y 93	1.07E-17	8.74E-12	3.90E-16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
ZR 95	2.80E-11	7.74E-08	1.36E-10	3.64E-11	5.44E-11	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
NB 95	1.80E-08	1.18E-04	6.22E-08	2.93E-08	2.83E-08	0.00E+00	0.00E+00	0.00E+00
	.00%	5.12%	.00%	.00%	.00%	.00%	.00%	.00%
MO 99	1.64E-05	1.17E-04	0.00E+00	7.55E-05	1.67E-04	0.00E+00	0.00E+00	0.00E+00
	.20%	5.08%	.00%	.43%	2.34%	.00%	.00%	.00%
TC 99M	3.04E-15	1.25E-13	8.88E-17	2.11E-16	3.13E-15	0.00E+00	1.07E-16	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
RU103	1.37E-10	2.17E-08	3.37E-10	0.00E+00	1.04E-09	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
RU106	2.85E-11	8.13E-09	2.27E-10	0.00E+00	3.67E-10	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
AG110M	5.47E-09	2.16E-06	9.98E-09	8.03E-09	1.54E-08	0.00E+00	0.00E+00	0.00E+00
	.00%	.09%	.00%	.00%	.00%	.00%	.00%	.00%

TE129M	2.18E-07	3.89E-06	1.39E-06	4.47E-07	4.87E-06	4.58E-07	0.00E+00	0.00E+00
	.00%	.17%	.00%	.00%	.07%	99.19%	.00%	.00%
SB124	1.60E-07	6.75E-06	4.32E-07	6.79E-09	0.00E+00	9.89E-10	2.91E-07	0.00E+00
	.00%	.29%	.00%	.00%	.00%	.21%	.02%	.00%
SB125	3.75E-08	1.01E-06	1.69E-07	1.57E-09	0.00E+00	1.62E-10	1.13E-07	0.00E+00
	.00%	.04%	.00%	.00%	.00%	.04%	.00%	.00%
TE131M	2.86E-10	2.13E-08	7.42E-10	3.05E-10	3.04E-09	5.45E-10	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.12%	.00%	.00%
TE132	1.71E-09	4.62E-08	3.01E-09	1.62E-09	1.53E-08	2.02E-09	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.44%	.00%	.00%
CS134	3.06E-03	7.00E-05	3.04E-03	6.06E-03	1.92E-03	0.00E+00	6.74E-04	0.00E+00
	37.39%	3.05%	15.44%	34.47%	26.94%	.00%	42.97%	.00%
CS136	3.17E-05	3.51E-06	1.39E-05	4.65E-05	2.53E-05	0.00E+00	3.68E-06	0.00E+00
	.39%	.15%	.07%	.26%	.36%	.00%	.23%	.00%
CS137	2.88E-03	9.60E-05	6.61E-03	7.56E-03	2.52E-03	0.00E+00	8.90E-04	0.00E+00
	35.19%	4.18%	33.60%	43.00%	35.37%	.00%	56.77%	.00%
BA140	4.29E-06	8.08E-05	6.97E-05	7.30E-08	2.44E-08	0.00E+00	4.37E-08	0.00E+00
	.05%	3.52%	.35%	.00%	.00%	.00%	.00%	.00%
LA140	3.90E-14	6.67E-09	3.13E-13	1.31E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
CE141	3.30E-10	6.28E-06	4.39E-09	2.54E-09	1.15E-09	0.00E+00	0.00E+00	0.00E+00
	.00%	.27%	.00%	.00%	.00%	.00%	.00%	.00%
CE144	3.37E-11	1.18E-07	6.30E-10	2.27E-10	1.31E-10	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
W 187	6.35E-12	3.76E-09	2.29E-11	1.61E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
NP239	1.26E-13	2.75E-08	2.43E-12	2.02E-13	6.09E-13	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%

ZN 65	2.01E-03	1.59E-03	1.28E-03	3.84E-03	2.49E-03	0.00E+00	0.00E+00	0.00E+00
	24.56%	68.98%	6.53%	21.83%	34.92%	.00%	.00%	.00%
SR 89	2.31E-05	7.17E-05	8.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.28%	3.12%	4.11%	.00%	.00%	.00%	.00%	.00%
SR 90	1.58E-04	1.36E-04	7.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	1.93%	5.91%	39.88%	.00%	.00%	.00%	.00%	.00%
Y 90	5.19E-15	1.18E-09	1.94E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 91	1.35E-12	1.17E-10	3.48E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 92	4.71E-22	2.28E-19	1.14E-20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TOTAL	8.17E-03	2.30E-03	1.97E-02	1.76E-02	7.13E-03	4.61E-07	1.57E-03	0.00E+00

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GGNS ESP Airborne Effluents
ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (PERSON-REM)
PATHWAY = MEAT

NUCLIDE	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
Y 91	1.45E-09	2.30E-05	5.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.10%	.00%	.00%	.00%	.00%	.00%	.00%
Y 93	1.51E-26	1.49E-20	5.49E-25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
ZR 95	1.21E-07	4.53E-04	5.71E-07	1.68E-07	2.58E-07	0.00E+00	0.00E+00	0.00E+00
	.00%	2.03%	.00%	.00%	.00%	.00%	.00%	.00%
NB 95	1.12E-06	1.00E-02	3.79E-06	1.95E-06	1.91E-06	0.00E+00	0.00E+00	0.00E+00
	.03%	44.96%	.04%	.03%	.06%	.00%	.00%	.00%
MO 99	2.31E-07	2.23E-06	0.00E+00	1.14E-06	2.56E-06	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.02%	.08%	.00%	.00%	.00%

TC 99M	3.25E-33	1.43E-31	9.24E-35	2.41E-34	3.63E-33	0.00E+00	1.20E-34	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
RU103	3.09E-05	6.69E-03	7.38E-05	0.00E+00	2.55E-04	0.00E+00	0.00E+00	0.00E+00
	.90%	29.94%	.88%	.00%	7.72%	.00%	.00%	.00%
RU106	7.88E-06	3.12E-03	6.25E-05	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00
	.23%	13.99%	.74%	.00%	3.35%	.00%	.00%	.00%
AG110M	1.35E-09	7.40E-07	2.47E-09	2.14E-09	4.16E-09	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TE129M	8.63E-06	2.14E-04	5.48E-05	1.91E-05	2.11E-04	1.84E-05	0.00E+00	0.00E+00
	.25%	.96%	.65%	.32%	6.36%	99.97%	.00%	.00%
SB124	2.67E-07	1.53E-05	6.95E-07	1.21E-08	0.00E+00	1.64E-09	5.07E-07	0.00E+00
	.00%	.07%	.00%	.00%	.00%	.00%	.12%	.00%
SB125	7.39E-08	2.73E-06	3.21E-07	3.29E-09	0.00E+00	3.17E-10	2.33E-07	0.00E+00
	.00%	.01%	.00%	.00%	.00%	.00%	.06%	.00%
TE131M	2.47E-12	2.39E-10	6.22E-12	2.80E-12	2.82E-11	4.68E-12	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TE132	3.39E-09	1.32E-07	5.77E-09	3.42E-09	3.27E-08	3.99E-09	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.02%	.00%	.00%
CS134	1.08E-03	2.38E-05	7.34E-04	1.61E-03	5.16E-04	0.00E+00	1.76E-04	0.00E+00
	31.68%	.11%	8.71%	27.03%	15.60%	.00%	43.34%	.00%
CS136	3.84E-06	5.27E-07	1.50E-06	5.47E-06	3.01E-06	0.00E+00	4.25E-07	0.00E+00
	.11%	.00%	.02%	.09%	.09%	.00%	.10%	.00%
CS137	1.04E-03	3.22E-05	1.58E-03	1.98E-03	6.68E-04	0.00E+00	2.29E-04	0.00E+00
	30.45%	.14%	18.74%	33.29%	20.18%	.00%	56.35%	.00%
BA140	1.08E-05	2.72E-04	1.69E-04	1.95E-07	6.59E-08	0.00E+00	1.15E-07	0.00E+00
	.32%	1.22%	2.01%	.00%	.00%	.00%	.03%	.00%
LA140	1.67E-15	3.78E-10	1.30E-14	6.00E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%

CE141	2.03E-09	5.32E-05	2.67E-08	1.67E-08	7.69E-09	0.00E+00	0.00E+00	0.00E+00
	.00%	.24%	.00%	.00%	.00%	.00%	.00%	.00%
CE144	2.77E-10	1.35E-06	5.16E-09	2.01E-09	1.18E-09	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
W 187	1.98E-16	1.52E-13	6.95E-16	5.35E-16	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
NP239	3.44E-14	1.01E-08	6.49E-13	5.88E-14	1.81E-13	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
ZN 65	1.13E-03	1.24E-03	7.53E-04	2.34E-03	1.54E-03	0.00E+00	0.00E+00	0.00E+00
	32.98%	5.57%	8.94%	39.21%	46.55%	.00%	.00%	.00%
SR 89	9.89E-06	4.27E-05	3.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.29%	.19%	4.10%	.00%	.00%	.00%	.00%	.00%
SR 90	9.33E-05	1.00E-04	4.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	2.73%	.45%	55.15%	.00%	.00%	.00%	.00%	.00%
Y 90	2.79E-14	8.62E-09	1.04E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 91	6.13E-25	6.27E-23	1.55E-23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TOTAL	3.42E-03	2.23E-02	8.42E-03	5.96E-03	3.31E-03	1.84E-05	4.06E-04	0.00E+00

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GGNS ESP Airborne Effluents
NEPA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (PERSON-REM)
PATHWAY = *TOTAL*

NUCLIDE	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
Y 91	7.32E-07	6.22E-05	2.53E-05	5.55E-08	5.55E-08	5.55E-08	8.93E-05	6.24E-08
	.00%	.09%	.02%	.00%	.00%	.00%	.15%	.00%
Y 92	4.93E-09	1.87E-06	5.14E-09	4.93E-09	4.93E-09	4.93E-09	3.07E-07	5.85E-09

	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
Y 93	2.22E-08	3.78E-05	3.20E-08	2.19E-08	2.19E-08	2.19E-08	4.99E-06	3.00E-08
	.00%	.05%	.00%	.00%	.00%	.00%	.00%	.00%
ZR 95	9.21E-05	6.41E-04	1.22E-04	9.52E-05	1.01E-04	8.41E-05	6.60E-04	9.76E-05
	.16%	.91%	.07%	.13%	.19%	.22%	1.10%	.22%
NB 95	2.55E-04	1.07E-02	2.76E-04	2.62E-04	2.61E-04	2.47E-04	1.10E-03	2.90E-04
	.44%	15.14%	.16%	.36%	.49%	.64%	1.83%	.65%
MO 99	6.24E-05	2.35E-03	4.55E-05	1.23E-04	2.18E-04	4.55E-05	1.06E-03	5.27E-05
	.11%	3.33%	.03%	.17%	.41%	.12%	1.76%	.12%
TC 99M	4.07E-09	7.06E-08	4.07E-09	4.07E-09	4.07E-09	4.07E-09	1.65E-08	4.66E-09
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
RU103	1.13E-04	6.89E-03	1.57E-04	8.15E-05	3.44E-04	8.15E-05	4.47E-04	9.51E-05
	.20%	9.79%	.09%	.11%	.65%	.21%	.74%	.21%
RU106	1.90E-05	3.21E-03	7.65E-05	1.07E-05	1.27E-04	1.07E-05	2.50E-04	1.28E-05
	.03%	4.56%	.05%	.01%	.24%	.03%	.42%	.03%
AG110M	1.50E-06	4.80E-06	1.51E-06	1.50E-06	1.52E-06	1.49E-06	3.35E-06	1.74E-06
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TE129M	1.03E-05	2.42E-04	6.08E-05	2.17E-05	2.29E-04	2.10E-05	5.56E-05	1.08E-06
	.02%	.34%	.04%	.03%	.43%	.05%	.09%	.00%
SB124	2.46E-05	7.53E-05	2.67E-05	2.34E-05	2.33E-05	2.33E-05	1.17E-04	2.69E-05
	.04%	.11%	.02%	.03%	.04%	.06%	.20%	.06%
SB125	4.75E-05	5.75E-05	4.94E-05	4.70E-05	4.70E-05	4.70E-05	8.12E-05	5.31E-05
	.08%	.08%	.03%	.06%	.09%	.12%	.13%	.12%
TE131M	1.02E-07	5.43E-06	1.03E-07	1.02E-07	1.08E-07	1.03E-07	1.81E-06	1.19E-07
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TE132	2.13E-08	1.55E-06	2.54E-08	2.14E-08	6.85E-08	2.23E-08	1.01E-06	1.84E-08
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
CS134	1.60E-02	9.35E-03	1.52E-02	2.15E-02	1.31E-02	9.20E-03	1.06E-02	1.07E-02

	27.77%	13.27%	9.05%	29.20%	24.76%	24.01%	17.56%	24.04%
CS136	6.76E-05	2.41E-05	3.95E-05	8.89E-05	5.76E-05	1.88E-05	2.44E-05	2.14E-05
	.12%	.03%	.02%	.12%	.11%	.05%	.04%	.05%
CS137	3.32E-02	2.68E-02	4.00E-02	4.22E-02	3.19E-02	2.66E-02	2.84E-02	3.10E-02
	57.56%	38.07%	23.79%	57.43%	60.12%	69.42%	47.26%	69.51%
CS138	2.00E-10	1.51E-10	2.03E-10	2.46E-10	2.22E-10	1.44E-10	1.52E-10	1.64E-10
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
BA140	1.50E-04	1.51E-03	6.38E-04	1.18E-04	1.17E-04	1.17E-04	7.14E-03	1.34E-04
	.26%	2.14%	.38%	.16%	.22%	.31%	11.87%	.30%
LA140	6.22E-06	1.18E-04	6.32E-06	6.26E-06	6.21E-06	6.21E-06	4.68E-05	7.04E-06
	.01%	.17%	.00%	.00%	.01%	.02%	.08%	.02%
CE141	3.00E-05	4.09E-04	6.81E-05	5.27E-05	3.87E-05	2.69E-05	7.41E-04	3.03E-05
	.05%	.58%	.04%	.07%	.07%	.07%	1.23%	.07%
CE144	1.08E-06	1.24E-05	1.51E-05	6.00E-06	3.62E-06	2.84E-07	3.24E-05	3.28E-07
	.00%	.02%	.00%	.00%	.00%	.00%	.05%	.00%
PR144	2.79E-14	2.16E-13	2.81E-14	2.80E-14	2.80E-14	2.79E-14	6.36E-12	3.21E-14
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
W 187	7.03E-08	3.54E-06	7.05E-08	7.05E-08	7.03E-08	7.03E-08	8.59E-07	8.16E-08
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
NP239	3.86E-06	2.10E-04	4.37E-06	4.27E-06	3.98E-06	3.84E-06	8.65E-05	4.44E-06
	.00%	.30%	.00%	.00%	.00%	.01%	.14%	.00%
ZN 65	5.39E-03	5.03E-03	4.13E-03	8.90E-03	6.43E-03	1.79E-03	3.70E-03	2.05E-03
	9.34%	7.14%	2.46%	12.09%	12.13%	4.66%	6.15%	4.60%
RB 89	5.19E-12	3.32E-12	3.32E-12	5.99E-12	3.32E-12	3.32E-12	3.32E-12	3.98E-12
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 89	1.34E-04	7.59E-04	4.68E-03	2.64E-08	2.64E-08	2.64E-08	1.74E-03	3.07E-08
	.23%	1.08%	2.79%	.00%	.00%	.00%	2.88%	.00%
SR 90	2.06E-03	1.93E-03	1.02E-01	0.00E+00	0.00E+00	0.00E+00	3.78E-03	0.00E+00

	3.56%	2.75%	60.95%	.00%	.00%	.00%	6.29%	.00%
Y 90	5.43E-10	3.45E-06	1.88E-08	3.95E-11	3.95E-11	3.95E-11	1.47E-06	4.67E-11
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 91	2.23E-07	1.49E-05	2.29E-07	2.23E-07	2.23E-07	2.23E-07	3.39E-06	2.61E-07
	.00%	.02%	.00%	.00%	.00%	.00%	.00%	.00%
SR 92	1.92E-08	1.25E-06	1.93E-08	1.92E-08	1.92E-08	1.92E-08	2.88E-07	2.14E-08
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TOTAL	5.77E-02	7.04E-02	1.68E-01	7.36E-02	5.30E-02	3.83E-02	6.02E-02	4.46E-02

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GGNS ESP Airborne Effluents
NEPA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (PERSON-REM)
PATHWAY = GROUND

NUCLIDE	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
Y 91	5.55E-08	5.55E-08	5.55E-08	5.55E-08	5.55E-08	5.55E-08	5.55E-08	6.24E-08
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
Y 92	4.93E-09	4.93E-09	4.93E-09	4.93E-09	4.93E-09	4.93E-09	4.93E-09	5.85E-09
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
Y 93	2.19E-08	2.19E-08	2.19E-08	2.19E-08	2.19E-08	2.19E-08	2.19E-08	3.00E-08
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
ZR 95	8.41E-05	8.41E-05	8.41E-05	8.41E-05	8.41E-05	8.41E-05	8.41E-05	9.76E-05
	.22%	.22%	.22%	.22%	.22%	.22%	.22%	.22%
NB 95	2.47E-04	2.47E-04	2.47E-04	2.47E-04	2.47E-04	2.47E-04	2.47E-04	2.90E-04
	.64%	.64%	.64%	.64%	.64%	.64%	.64%	.65%
MO 99	4.55E-05	4.55E-05	4.55E-05	4.55E-05	4.55E-05	4.55E-05	4.55E-05	5.27E-05
	.12%	.12%	.12%	.12%	.12%	.12%	.12%	.12%
TC 99M	4.07E-09	4.07E-09	4.07E-09	4.07E-09	4.07E-09	4.07E-09	4.07E-09	4.66E-09
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%

RU103	8.15E-05	8.15E-05	8.15E-05	8.15E-05	8.15E-05	8.15E-05	8.15E-05	9.51E-05
	.21%	.21%	.21%	.21%	.21%	.21%	.21%	.21%
RU106	1.07E-05	1.07E-05	1.07E-05	1.07E-05	1.07E-05	1.07E-05	1.07E-05	1.28E-05
	.03%	.03%	.03%	.03%	.03%	.03%	.03%	.03%
AG110M	1.49E-06	1.49E-06	1.49E-06	1.49E-06	1.49E-06	1.49E-06	1.49E-06	1.74E-06
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TE129M	9.26E-07	9.26E-07	9.26E-07	9.26E-07	9.26E-07	9.26E-07	9.26E-07	1.08E-06
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SB124	2.33E-05	2.33E-05	2.33E-05	2.33E-05	2.33E-05	2.33E-05	2.33E-05	2.69E-05
	.06%	.06%	.06%	.06%	.06%	.06%	.06%	.06%
SB125	4.70E-05	4.70E-05	4.70E-05	4.70E-05	4.70E-05	4.70E-05	4.70E-05	5.31E-05
	.12%	.12%	.12%	.12%	.12%	.12%	.12%	.12%
TE131M	1.01E-07	1.01E-07	1.01E-07	1.01E-07	1.01E-07	1.01E-07	1.01E-07	1.19E-07
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TE132	1.56E-08	1.56E-08	1.56E-08	1.56E-08	1.56E-08	1.56E-08	1.56E-08	1.84E-08
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
CS134	9.20E-03	9.20E-03	9.20E-03	9.20E-03	9.20E-03	9.20E-03	9.20E-03	1.07E-02
	24.02%	24.02%	24.02%	24.02%	24.02%	24.02%	24.02%	24.04%
CS136	1.88E-05	1.88E-05	1.88E-05	1.88E-05	1.88E-05	1.88E-05	1.88E-05	2.14E-05
	.05%	.05%	.05%	.05%	.05%	.05%	.05%	.05%
CS137	2.66E-02	2.66E-02	2.66E-02	2.66E-02	2.66E-02	2.66E-02	2.66E-02	3.10E-02
	69.45%	69.45%	69.45%	69.45%	69.45%	69.45%	69.45%	69.51%
CS138	1.44E-10	1.44E-10	1.44E-10	1.44E-10	1.44E-10	1.44E-10	1.44E-10	1.64E-10
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
BA140	1.17E-04	1.17E-04	1.17E-04	1.17E-04	1.17E-04	1.17E-04	1.17E-04	1.34E-04
	.31%	.31%	.31%	.31%	.31%	.31%	.31%	.30%
LA140	6.21E-06	6.21E-06	6.21E-06	6.21E-06	6.21E-06	6.21E-06	6.21E-06	7.04E-06
	.02%	.02%	.02%	.02%	.02%	.02%	.02%	.02%

CE141	2.69E-05	2.69E-05	2.69E-05	2.69E-05	2.69E-05	2.69E-05	2.69E-05	3.03E-05
	.07%	.07%	.07%	.07%	.07%	.07%	.07%	.07%
CE144	2.84E-07	2.84E-07	2.84E-07	2.84E-07	2.84E-07	2.84E-07	2.84E-07	3.28E-07
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
PR144	2.79E-14	2.79E-14	2.79E-14	2.79E-14	2.79E-14	2.79E-14	2.79E-14	3.21E-14
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
W 187	7.03E-08	7.03E-08	7.03E-08	7.03E-08	7.03E-08	7.03E-08	7.03E-08	8.16E-08
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
NP239	3.84E-06	3.84E-06	3.84E-06	3.84E-06	3.84E-06	3.84E-06	3.84E-06	4.44E-06
	.01%	.01%	.01%	.01%	.01%	.01%	.01%	.00%
ZN 65	1.79E-03	1.79E-03	1.79E-03	1.79E-03	1.79E-03	1.79E-03	1.79E-03	2.05E-03
	4.66%	4.66%	4.66%	4.66%	4.66%	4.66%	4.66%	4.60%
RB 89	3.32E-12	3.32E-12	3.32E-12	3.32E-12	3.32E-12	3.32E-12	3.32E-12	3.98E-12
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 89	2.64E-08	2.64E-08	2.64E-08	2.64E-08	2.64E-08	2.64E-08	2.64E-08	3.07E-08
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
Y 90	3.95E-11	3.95E-11	3.95E-11	3.95E-11	3.95E-11	3.95E-11	3.95E-11	4.67E-11
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 91	2.23E-07	2.23E-07	2.23E-07	2.23E-07	2.23E-07	2.23E-07	2.23E-07	2.61E-07
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 92	1.92E-08	1.92E-08	1.92E-08	1.92E-08	1.92E-08	1.92E-08	1.92E-08	2.14E-08
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TOTAL	3.83E-02	3.83E-02	3.83E-02	3.83E-02	3.83E-02	3.83E-02	3.83E-02	4.46E-02

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GGNS ESP Airborne Effluents
NEPA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (PERSON-REM)
PATHWAY = INHAL

NUCLIDE	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN

Y 91	6.73E-07	1.56E-05	2.52E-05	0.00E+00	0.00E+00	0.00E+00	8.92E-05	0.00E+00
	.04%	.33%	.20%	.00%	.00%	.00%	.47%	.00%
Y 92	6.01E-12	1.86E-06	2.07E-10	0.00E+00	0.00E+00	0.00E+00	3.02E-07	0.00E+00
	.00%	.04%	.00%	.00%	.00%	.00%	.00%	.00%
Y 93	2.78E-10	3.78E-05	1.01E-08	0.00E+00	0.00E+00	0.00E+00	4.97E-06	0.00E+00
	.00%	.80%	.00%	.00%	.00%	.00%	.03%	.00%
ZR 95	7.87E-06	3.96E-05	3.73E-05	1.09E-05	1.67E-05	0.00E+00	5.76E-04	0.00E+00
	.46%	.84%	.29%	.43%	1.68%	.00%	3.04%	.00%
NB 95	7.41E-06	1.41E-04	2.52E-05	1.29E-05	1.26E-05	0.00E+00	8.53E-04	0.00E+00
	.43%	2.99%	.20%	.51%	1.27%	.00%	4.50%	.00%
MO 99	2.63E-07	2.18E-03	0.00E+00	1.29E-06	3.08E-06	0.00E+00	1.01E-03	0.00E+00
	.02%	46.35%	.00%	.05%	.31%	.00%	5.35%	.00%
TC 99M	6.24E-13	6.65E-08	1.78E-14	4.62E-14	6.93E-13	0.00E+00	1.24E-08	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
RU103	4.92E-07	6.37E-05	1.18E-06	0.00E+00	4.03E-06	0.00E+00	3.65E-04	0.00E+00
	.03%	1.35%	.00%	.00%	.41%	.00%	1.93%	.00%
RU106	2.31E-07	1.81E-05	1.84E-06	0.00E+00	3.24E-06	0.00E+00	2.39E-04	0.00E+00
	.01%	.38%	.01%	.00%	.33%	.00%	1.26%	.00%
AG110M	2.51E-09	9.77E-08	4.55E-09	3.94E-09	7.64E-09	0.00E+00	1.87E-06	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TE129M	7.73E-08	1.41E-05	4.80E-07	2.12E-07	1.64E-06	1.65E-07	5.47E-05	0.00E+00
	.00%	.30%	.00%	.00%	.17%	96.87%	.29%	.00%
SB124	4.77E-07	1.21E-05	1.25E-06	2.14E-08	0.00E+00	2.91E-09	9.27E-05	0.00E+00
	.03%	.26%	.00%	.00%	.00%	1.72%	.49%	.00%
SB125	2.49E-07	1.53E-06	1.09E-06	1.10E-08	0.00E+00	1.06E-09	3.33E-05	0.00E+00
	.01%	.03%	.00%	.00%	.00%	.63%	.18%	.00%
TE131M	3.50E-10	5.30E-06	8.66E-10	4.93E-10	3.47E-09	6.61E-10	1.70E-06	0.00E+00
	.00%	.11%	.00%	.00%	.00%	.39%	.00%	.00%

TE132	5.78E-10	1.36E-06	9.65E-10	7.26E-10	4.87E-09	6.79E-10	9.99E-07	0.00E+00
	.00%	.03%	.00%	.00%	.00%	.40%	.00%	.00%
CS134	7.13E-04	1.06E-05	5.05E-04	1.05E-03	3.52E-04	0.00E+00	1.24E-04	0.00E+00
	41.33%	.22%	3.96%	41.16%	35.47%	.00%	.65%	.00%
CS136	1.23E-05	1.10E-06	4.84E-06	1.67E-05	9.67E-06	0.00E+00	1.41E-06	0.00E+00
	.71%	.02%	.04%	.66%	.98%	.00%	.00%	.00%
CS137	6.36E-04	1.33E-05	1.01E-03	1.20E-03	4.26E-04	0.00E+00	1.50E-04	0.00E+00
	36.86%	.28%	7.96%	47.15%	42.99%	.00%	.79%	.00%
CS138	5.65E-11	7.24E-12	5.96E-11	1.02E-10	7.83E-11	0.00E+00	8.25E-12	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
BA140	1.46E-05	9.68E-04	2.30E-04	2.63E-07	8.87E-08	0.00E+00	7.02E-03	0.00E+00
	.85%	20.57%	1.80%	.01%	.00%	.00%	37.09%	.00%
LA140	1.41E-08	1.11E-04	1.10E-07	5.03E-08	0.00E+00	0.00E+00	4.06E-05	0.00E+00
	.00%	2.36%	.00%	.00%	.00%	.00%	.21%	.00%
CE141	3.12E-06	1.85E-04	4.12E-05	2.57E-05	1.18E-05	0.00E+00	7.14E-04	0.00E+00
	.18%	3.93%	.32%	1.01%	1.19%	.00%	3.77%	.00%
CE144	7.89E-07	2.62E-06	1.47E-05	5.70E-06	3.33E-06	0.00E+00	3.21E-05	0.00E+00
	.05%	.06%	.12%	.22%	.34%	.00%	.17%	.00%
PR144	9.87E-18	1.88E-13	1.95E-16	7.48E-17	4.17E-17	0.00E+00	6.33E-12	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
W 187	6.92E-11	3.47E-06	2.44E-10	1.86E-10	0.00E+00	0.00E+00	7.89E-07	0.00E+00
	.00%	.07%	.00%	.00%	.00%	.00%	.00%	.00%
NP239	2.79E-08	2.06E-04	5.30E-07	4.29E-07	1.46E-07	0.00E+00	8.26E-05	0.00E+00
	.00%	4.39%	.00%	.02%	.01%	.00%	.44%	.00%
ZN 65	1.09E-04	9.50E-05	7.20E-05	2.24E-04	1.47E-04	0.00E+00	1.92E-03	0.00E+00
	6.29%	2.02%	.57%	8.78%	14.85%	.00%	10.12%	.00%
RB 89	1.87E-12	3.22E-15	0.00E+00	2.67E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%

SR 89	1.12E-05	3.36E-04	3.91E-04	0.00E+00	0.00E+00	0.00E+00	1.74E-03	0.00E+00
	.65%	7.14%	3.07%	.00%	.00%	.00%	9.16%	.00%
SR 90	2.08E-04	2.21E-04	1.04E-02	0.00E+00	0.00E+00	0.00E+00	3.78E-03	0.00E+00
	12.06%	4.69%	81.43%	.00%	.00%	.00%	19.98%	.00%
Y 90	5.04E-10	3.44E-06	1.87E-08	0.00E+00	0.00E+00	0.00E+00	1.47E-06	0.00E+00
	.00%	.07%	.00%	.00%	.00%	.00%	.00%	.00%
SR 91	2.25E-10	1.47E-05	5.67E-09	0.00E+00	0.00E+00	0.00E+00	3.17E-06	0.00E+00
	.00%	.31%	.00%	.00%	.00%	.00%	.02%	.00%
SR 92	4.88E-12	1.23E-06	1.16E-10	0.00E+00	0.00E+00	0.00E+00	2.69E-07	0.00E+00
	.00%	.03%	.00%	.00%	.00%	.00%	.00%	.00%
TOTAL	1.72E-03	4.71E-03	1.27E-02	2.55E-03	9.91E-04	1.70E-07	1.89E-02	0.00E+00

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GGNS ESP Airborne Effluents
NEPA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (PERSON-REM)
PATHWAY = VEGET

NUCLIDE	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
Y 91	1.86E-09	2.35E-05	6.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.84%	.00%	.00%	.00%	.00%	.00%	.00%
ZR 95	2.11E-08	6.41E-05	1.01E-07	2.79E-08	4.21E-08	0.00E+00	0.00E+00	0.00E+00
	.00%	2.30%	.00%	.00%	.00%	.00%	.00%	.00%
NB 95	1.60E-08	1.16E-04	5.50E-08	2.66E-08	2.58E-08	0.00E+00	0.00E+00	0.00E+00
	.00%	4.15%	.00%	.00%	.00%	.00%	.00%	.00%
MO 99	1.04E-11	8.13E-11	0.00E+00	4.88E-11	1.08E-10	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
RU103	3.43E-07	6.01E-05	8.39E-07	0.00E+00	2.68E-06	0.00E+00	0.00E+00	0.00E+00
	.00%	2.16%	.00%	.00%	.08%	.00%	.00%	.00%
RU106	1.87E-07	5.89E-05	1.49E-06	0.00E+00	2.46E-06	0.00E+00	0.00E+00	0.00E+00

	.00%	2.11%	.00%	.00%	.08%	.00%	.00%	.00%
AG110M	7.15E-10	3.13E-07	1.30E-09	1.07E-09	2.06E-09	0.00E+00	0.00E+00	0.00E+00
	.00%	.01%	.00%	.00%	.00%	.00%	.00%	.00%
TE129M	4.97E-07	9.81E-06	3.17E-06	1.04E-06	1.14E-05	1.05E-06	0.00E+00	0.00E+00
	.00%	.35%	.00%	.01%	.35%	99.70%	.00%	.00%
SB124	3.86E-07	1.79E-05	1.03E-06	1.66E-08	0.00E+00	2.38E-09	7.08E-07	0.00E+00
	.00%	.64%	.00%	.00%	.00%	.23%	.07%	.00%
SB125	1.76E-07	5.25E-06	7.84E-07	7.50E-09	0.00E+00	7.60E-10	5.38E-07	0.00E+00
	.00%	.19%	.00%	.00%	.00%	.07%	.06%	.00%
TE131M	7.13E-23	5.75E-21	1.84E-22	7.73E-23	7.73E-22	1.36E-22	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TE132	7.76E-14	2.36E-12	1.36E-13	7.48E-14	7.10E-13	9.17E-14	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
CS134	1.98E-03	4.47E-05	1.74E-03	3.56E-03	1.13E-03	0.00E+00	3.94E-04	0.00E+00
	32.37%	1.60%	1.96%	38.81%	34.81%	.00%	40.66%	.00%
CS136	8.90E-07	1.06E-07	3.78E-07	1.29E-06	7.07E-07	0.00E+00	1.02E-07	0.00E+00
	.01%	.00%	.00%	.01%	.02%	.00%	.01%	.00%
CS137	2.08E-03	6.74E-05	4.18E-03	4.90E-03	1.64E-03	0.00E+00	5.74E-04	0.00E+00
	33.96%	2.42%	4.70%	53.39%	50.36%	.00%	59.19%	.00%
BA140	3.23E-06	6.68E-05	5.21E-05	5.61E-08	1.88E-08	0.00E+00	3.33E-08	0.00E+00
	.05%	2.40%	.06%	.00%	.00%	.00%	.00%	.00%
LA140	4.94E-21	9.21E-16	3.92E-20	1.69E-20	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
CE141	6.56E-09	1.38E-04	8.69E-08	5.14E-08	2.34E-08	0.00E+00	0.00E+00	0.00E+00
	.00%	4.94%	.00%	.00%	.00%	.00%	.00%	.00%
CE144	2.07E-09	8.01E-06	3.86E-08	1.42E-08	8.22E-09	0.00E+00	0.00E+00	0.00E+00
	.00%	.29%	.00%	.00%	.00%	.00%	.00%	.00%
W 187	1.22E-27	7.81E-25	4.36E-27	3.14E-27	0.00E+00	0.00E+00	0.00E+00	0.00E+00

	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
NP239	1.19E-17	2.85E-12	2.28E-16	1.94E-17	5.89E-17	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
ZN 65	3.65E-04	3.21E-04	2.37E-04	7.14E-04	4.66E-04	0.00E+00	0.00E+00	0.00E+00
	5.97%	11.52%	.27%	7.78%	14.30%	.00%	.00%	.00%
SR 89	8.98E-05	3.08E-04	3.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	1.47%	11.06%	3.53%	.00%	.00%	.00%	.00%	.00%
SR 90	1.60E-03	1.48E-03	7.95E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	26.14%	53.00%	89.48%	.00%	.00%	.00%	.00%	.00%
Y 90	1.67E-18	4.15E-13	6.22E-17	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TOTAL	6.11E-03	2.79E-03	8.89E-02	9.18E-03	3.26E-03	1.05E-06	9.70E-04	0.00E+00

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GGNS ESP Airborne Effluents
NEPA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (PERSON-REM)
PATHWAY = COW MILK

NUCLIDE	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
Y 91	5.35E-12	6.11E-08	2.00E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
Y 92	9.58E-25	8.30E-19	3.32E-23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
Y 93	1.07E-17	8.74E-12	3.90E-16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
ZR 95	2.80E-11	7.74E-08	1.36E-10	3.64E-11	5.44E-11	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
NB 95	1.80E-08	1.18E-04	6.22E-08	2.93E-08	2.83E-08	0.00E+00	0.00E+00	0.00E+00
	.00%	5.12%	.00%	.00%	.00%	.00%	.00%	.00%

MO 99	1.64E-05	1.17E-04	0.00E+00	7.55E-05	1.67E-04	0.00E+00	0.00E+00	0.00E+00
	.20%	5.08%	.00%	.43%	2.34%	.00%	.00%	.00%
TC 99M	3.04E-15	1.25E-13	8.88E-17	2.11E-16	3.13E-15	0.00E+00	1.07E-16	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
RU103	1.37E-10	2.17E-08	3.37E-10	0.00E+00	1.04E-09	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
RU106	2.85E-11	8.13E-09	2.27E-10	0.00E+00	3.67E-10	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
AG110M	5.47E-09	2.16E-06	9.98E-09	8.03E-09	1.54E-08	0.00E+00	0.00E+00	0.00E+00
	.00%	.09%	.00%	.00%	.00%	.00%	.00%	.00%
TE129M	2.18E-07	3.89E-06	1.39E-06	4.47E-07	4.87E-06	4.58E-07	0.00E+00	0.00E+00
	.00%	.17%	.00%	.00%	.07%	99.19%	.00%	.00%
SB124	1.60E-07	6.75E-06	4.32E-07	6.79E-09	0.00E+00	9.89E-10	2.91E-07	0.00E+00
	.00%	.29%	.00%	.00%	.00%	.21%	.02%	.00%
SB125	3.75E-08	1.01E-06	1.69E-07	1.57E-09	0.00E+00	1.62E-10	1.13E-07	0.00E+00
	.00%	.04%	.00%	.00%	.00%	.04%	.00%	.00%
TE131M	2.86E-10	2.13E-08	7.42E-10	3.05E-10	3.04E-09	5.45E-10	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.12%	.00%	.00%
TE132	1.71E-09	4.62E-08	3.01E-09	1.62E-09	1.53E-08	2.02E-09	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.44%	.00%	.00%
CS134	3.06E-03	7.00E-05	3.04E-03	6.06E-03	1.92E-03	0.00E+00	6.74E-04	0.00E+00
	37.39%	3.05%	15.44%	34.47%	26.94%	.00%	42.97%	.00%
CS136	3.17E-05	3.51E-06	1.39E-05	4.65E-05	2.53E-05	0.00E+00	3.68E-06	0.00E+00
	.39%	.15%	.07%	.26%	.36%	.00%	.23%	.00%
CS137	2.88E-03	9.60E-05	6.61E-03	7.56E-03	2.52E-03	0.00E+00	8.90E-04	0.00E+00
	35.19%	4.18%	33.60%	43.00%	35.37%	.00%	56.77%	.00%
BA140	4.29E-06	8.08E-05	6.97E-05	7.30E-08	2.44E-08	0.00E+00	4.37E-08	0.00E+00
	.05%	3.52%	.35%	.00%	.00%	.00%	.00%	.00%

LA140	3.90E-14	6.67E-09	3.13E-13	1.31E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
CE141	3.30E-10	6.28E-06	4.39E-09	2.54E-09	1.15E-09	0.00E+00	0.00E+00	0.00E+00
	.00%	.27%	.00%	.00%	.00%	.00%	.00%	.00%
CE144	3.37E-11	1.18E-07	6.30E-10	2.27E-10	1.31E-10	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
W 187	6.35E-12	3.76E-09	2.29E-11	1.61E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
NP239	1.26E-13	2.75E-08	2.43E-12	2.02E-13	6.09E-13	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
ZN 65	2.01E-03	1.59E-03	1.28E-03	3.84E-03	2.49E-03	0.00E+00	0.00E+00	0.00E+00
	24.56%	68.98%	6.53%	21.83%	34.92%	.00%	.00%	.00%
SR 89	2.31E-05	7.17E-05	8.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.28%	3.12%	4.11%	.00%	.00%	.00%	.00%	.00%
SR 90	1.58E-04	1.36E-04	7.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	1.93%	5.91%	39.88%	.00%	.00%	.00%	.00%	.00%
Y 90	5.19E-15	1.18E-09	1.94E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 91	1.35E-12	1.17E-10	3.48E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 92	4.71E-22	2.28E-19	1.14E-20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TOTAL	8.17E-03	2.30E-03	1.97E-02	1.76E-02	7.13E-03	4.61E-07	1.57E-03	0.00E+00

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GGNS ESP Airborne Effluents
NEPA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (PERSON-REM)
PATHWAY = MEAT

NUCLIDE	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN

Y 91	1.45E-09	2.30E-05	5.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.10%	.00%	.00%	.00%	.00%	.00%	.00%
Y 93	1.51E-26	1.49E-20	5.49E-25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
ZR 95	1.21E-07	4.53E-04	5.71E-07	1.68E-07	2.58E-07	0.00E+00	0.00E+00	0.00E+00
	.00%	2.03%	.00%	.00%	.00%	.00%	.00%	.00%
NB 95	1.12E-06	1.00E-02	3.79E-06	1.95E-06	1.91E-06	0.00E+00	0.00E+00	0.00E+00
	.03%	44.96%	.04%	.03%	.06%	.00%	.00%	.00%
MO 99	2.31E-07	2.23E-06	0.00E+00	1.14E-06	2.56E-06	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.02%	.08%	.00%	.00%	.00%
TC 99M	3.25E-33	1.43E-31	9.24E-35	2.41E-34	3.63E-33	0.00E+00	1.20E-34	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
RU103	3.09E-05	6.69E-03	7.38E-05	0.00E+00	2.55E-04	0.00E+00	0.00E+00	0.00E+00
	.90%	29.94%	.88%	.00%	7.72%	.00%	.00%	.00%
RU106	7.88E-06	3.12E-03	6.25E-05	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00
	.23%	13.99%	.74%	.00%	3.35%	.00%	.00%	.00%
AG110M	1.35E-09	7.40E-07	2.47E-09	2.14E-09	4.16E-09	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TE129M	8.63E-06	2.14E-04	5.48E-05	1.91E-05	2.11E-04	1.84E-05	0.00E+00	0.00E+00
	.25%	.96%	.65%	.32%	6.36%	99.97%	.00%	.00%
SB124	2.67E-07	1.53E-05	6.95E-07	1.21E-08	0.00E+00	1.64E-09	5.07E-07	0.00E+00
	.00%	.07%	.00%	.00%	.00%	.00%	.12%	.00%
SB125	7.39E-08	2.73E-06	3.21E-07	3.29E-09	0.00E+00	3.17E-10	2.33E-07	0.00E+00
	.00%	.01%	.00%	.00%	.00%	.00%	.06%	.00%
TE131M	2.47E-12	2.39E-10	6.22E-12	2.80E-12	2.82E-11	4.68E-12	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TE132	3.39E-09	1.32E-07	5.77E-09	3.42E-09	3.27E-08	3.99E-09	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.02%	.00%	.00%

CS134	1.08E-03	2.38E-05	7.34E-04	1.61E-03	5.16E-04	0.00E+00	1.76E-04	0.00E+00
	31.68%	.11%	8.71%	27.03%	15.60%	.00%	43.34%	.00%
CS136	3.84E-06	5.27E-07	1.50E-06	5.47E-06	3.01E-06	0.00E+00	4.25E-07	0.00E+00
	.11%	.00%	.02%	.09%	.09%	.00%	.10%	.00%
CS137	1.04E-03	3.22E-05	1.58E-03	1.98E-03	6.68E-04	0.00E+00	2.29E-04	0.00E+00
	30.45%	.14%	18.74%	33.29%	20.18%	.00%	56.35%	.00%
BA140	1.08E-05	2.72E-04	1.69E-04	1.95E-07	6.59E-08	0.00E+00	1.15E-07	0.00E+00
	.32%	1.22%	2.01%	.00%	.00%	.00%	.03%	.00%
LA140	1.67E-15	3.78E-10	1.30E-14	6.00E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
CE141	2.03E-09	5.32E-05	2.67E-08	1.67E-08	7.69E-09	0.00E+00	0.00E+00	0.00E+00
	.00%	.24%	.00%	.00%	.00%	.00%	.00%	.00%
CE144	2.77E-10	1.35E-06	5.16E-09	2.01E-09	1.18E-09	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
W 187	1.98E-16	1.52E-13	6.95E-16	5.35E-16	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
NP239	3.44E-14	1.01E-08	6.49E-13	5.88E-14	1.81E-13	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
ZN 65	1.13E-03	1.24E-03	7.53E-04	2.34E-03	1.54E-03	0.00E+00	0.00E+00	0.00E+00
	32.98%	5.57%	8.94%	39.21%	46.55%	.00%	.00%	.00%
SR 89	9.89E-06	4.27E-05	3.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.29%	.19%	4.10%	.00%	.00%	.00%	.00%	.00%
SR 90	9.33E-05	1.00E-04	4.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	2.73%	.45%	55.15%	.00%	.00%	.00%	.00%	.00%
Y 90	2.79E-14	8.62E-09	1.04E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 91	6.13E-25	6.27E-23	1.55E-23	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%

TOTAL	3.42E-03	2.23E-02	8.42E-03	5.96E-03	3.31E-03	1.84E-05	4.06E-04	0.00E+00

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GGNS ESP Airborne Effluents
SPECIAL LOCATION NO. 1 Local Residence
AT .64 MILES NNE

ANNUAL BETA AIR DOSE = 0.00E+00 MILLRADS
ANNUAL GAMMA AIR DOSE = 0.00E+00 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GROUND	7.87E-02	7.87E-02	7.87E-02	7.87E-02	7.87E-02	7.87E-02	7.87E-02	9.17E-02
VEGET								
ADULT	6.86E-02	5.18E-02	7.30E-01	7.74E-02	2.88E-02	1.99E-05	7.76E-03	0.00E+00
TEEN	6.71E-02	5.91E-02	9.92E-01	1.18E-01	4.31E-02	2.95E-05	1.37E-02	0.00E+00
CHILD	8.08E-02	4.48E-02	2.06E+00	1.92E-01	6.76E-02	7.09E-05	2.03E-02	0.00E+00
MEAT								
ADULT	8.05E-03	5.58E-02	1.70E-02	1.25E-02	7.06E-03	3.57E-05	8.27E-04	0.00E+00
TEEN	4.43E-03	3.18E-02	1.25E-02	9.86E-03	5.41E-03	2.81E-05	7.62E-04	0.00E+00
CHILD	4.50E-03	1.75E-02	2.09E-02	1.21E-02	6.51E-03	5.28E-05	8.80E-04	0.00E+00
COW MILK								
ADULT	5.63E-02	1.80E-02	8.34E-02	8.39E-02	3.57E-02	1.92E-06	7.05E-03	0.00E+00
TEEN	6.14E-02	2.14E-02	1.38E-01	1.45E-01	6.04E-02	3.30E-06	1.42E-02	0.00E+00
CHILD	6.67E-02	1.46E-02	3.07E-01	2.38E-01	9.51E-02	8.12E-06	2.14E-02	0.00E+00
INFANT	7.35E-02	7.72E-02	4.36E-01	4.45E-01	1.43E-01	1.99E-05	3.81E-02	0.00E+00
GOATMILK								

ADULT	1.43E-01	8.44E-03	1.96E-01	1.94E-01	6.56E-02	2.31E-07	2.11E-02	0.00E+00
TEEN	1.39E-01	1.08E-02	3.30E-01	3.38E-01	1.13E-01	3.96E-07	4.25E-02	0.00E+00
CHILD	1.08E-01	8.08E-03	7.50E-01	5.67E-01	1.83E-01	9.75E-07	6.42E-02	0.00E+00
INFANT	1.02E-01	1.55E-02	1.09E+00	1.08E+00	2.87E-01	2.38E-06	1.14E-01	0.00E+00
INHAL								
ADULT	1.25E-03	3.71E-03	7.51E-03	1.52E-03	6.01E-04	9.39E-08	1.10E-02	0.00E+00
TEEN	1.04E-03	3.98E-03	8.97E-03	2.05E-03	7.96E-04	1.25E-07	1.78E-02	0.00E+00
CHILD	6.29E-04	1.87E-03	1.07E-02	1.91E-03	7.13E-04	1.72E-07	1.54E-02	0.00E+00
INFANT	2.50E-04	7.84E-04	4.87E-03	1.35E-03	4.10E-04	1.49E-07	1.32E-02	0.00E+00

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GGNS ESP Airborne Effluents
SPECIAL LOCATION NO. 2 Nearest Garden
AT .63 MILES ENE

ANNUAL BETA AIR DOSE = 0.00E+00 MILLRADS
ANNUAL GAMMA AIR DOSE = 0.00E+00 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GROUND	6.07E-02	6.07E-02	6.07E-02	6.07E-02	6.07E-02	6.07E-02	6.07E-02	7.08E-02
VEGET								
ADULT	5.29E-02	4.00E-02	5.64E-01	5.97E-02	2.22E-02	1.54E-05	5.98E-03	0.00E+00
TEEN	5.18E-02	4.56E-02	7.66E-01	9.10E-02	3.33E-02	2.28E-05	1.06E-02	0.00E+00
CHILD	6.23E-02	3.45E-02	1.59E+00	1.48E-01	5.21E-02	5.47E-05	1.57E-02	0.00E+00
MEAT								
ADULT	6.21E-03	4.30E-02	1.31E-02	9.68E-03	5.44E-03	2.75E-05	6.38E-04	0.00E+00

TEEN	3.42E-03	2.45E-02	9.66E-03	7.61E-03	4.17E-03	2.16E-05	5.88E-04	0.00E+00
CHILD	3.47E-03	1.35E-02	1.61E-02	9.37E-03	5.02E-03	4.08E-05	6.79E-04	0.00E+00
COW MILK								
ADULT	4.35E-02	1.39E-02	6.43E-02	6.48E-02	2.76E-02	1.48E-06	5.44E-03	0.00E+00
TEEN	4.74E-02	1.65E-02	1.06E-01	1.12E-01	4.66E-02	2.55E-06	1.09E-02	0.00E+00
CHILD	5.14E-02	1.13E-02	2.37E-01	1.83E-01	7.34E-02	6.27E-06	1.65E-02	0.00E+00
INFANT	5.67E-02	5.96E-02	3.36E-01	3.43E-01	1.10E-01	1.53E-05	2.94E-02	0.00E+00
GOATMILK								
ADULT	1.10E-01	6.51E-03	1.51E-01	1.50E-01	5.06E-02	1.78E-07	1.63E-02	0.00E+00
TEEN	1.07E-01	8.33E-03	2.55E-01	2.61E-01	8.75E-02	3.06E-07	3.28E-02	0.00E+00
CHILD	8.36E-02	6.23E-03	5.78E-01	4.37E-01	1.42E-01	7.52E-07	4.95E-02	0.00E+00
INFANT	7.86E-02	1.19E-02	8.41E-01	8.30E-01	2.22E-01	1.84E-06	8.81E-02	0.00E+00
INHAL								
ADULT	9.89E-04	2.93E-03	5.93E-03	1.20E-03	4.74E-04	7.42E-08	8.70E-03	0.00E+00
TEEN	8.20E-04	3.14E-03	7.08E-03	1.62E-03	6.28E-04	9.86E-08	1.41E-02	0.00E+00
CHILD	4.96E-04	1.48E-03	8.47E-03	1.50E-03	5.63E-04	1.36E-07	1.22E-02	0.00E+00
INFANT	1.97E-04	6.19E-04	3.85E-03	1.07E-03	3.23E-04	1.17E-07	1.04E-02	0.00E+00

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GGNS ESP Airborne Effluents
SPECIAL LOCATION NO. 3 Site Boundary
AT .58 MILES N

ANNUAL BETA AIR DOSE = 0.00E+00 MILLRADS
ANNUAL GAMMA AIR DOSE = 0.00E+00 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN

PLUME	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GROUND	1.35E-01	1.35E-01	1.35E-01	1.35E-01	1.35E-01	1.35E-01	1.35E-01	1.57E-01
VEGET								
ADULT	1.18E-01	8.89E-02	1.25E+00	1.33E-01	4.94E-02	3.42E-05	1.33E-02	0.00E+00
TEEN	1.15E-01	1.01E-01	1.70E+00	2.02E-01	7.39E-02	5.06E-05	2.35E-02	0.00E+00
CHILD	1.38E-01	7.67E-02	3.53E+00	3.30E-01	1.16E-01	1.21E-04	3.48E-02	0.00E+00
MEAT								
ADULT	1.38E-02	9.57E-02	2.91E-02	2.15E-02	1.21E-02	6.11E-05	1.42E-03	0.00E+00
TEEN	7.60E-03	5.45E-02	2.15E-02	1.69E-02	9.27E-03	4.81E-05	1.31E-03	0.00E+00
CHILD	7.72E-03	3.00E-02	3.58E-02	2.08E-02	1.12E-02	9.06E-05	1.51E-03	0.00E+00
COW MILK								
ADULT	9.66E-02	3.09E-02	1.43E-01	1.44E-01	6.13E-02	3.30E-06	1.21E-02	0.00E+00
TEEN	1.05E-01	3.68E-02	2.36E-01	2.49E-01	1.03E-01	5.66E-06	2.43E-02	0.00E+00
CHILD	1.14E-01	2.50E-02	5.26E-01	4.08E-01	1.63E-01	1.39E-05	3.67E-02	0.00E+00
INFANT	1.26E-01	1.32E-01	7.47E-01	7.63E-01	2.45E-01	3.40E-05	6.53E-02	0.00E+00
GOATMILK								
ADULT	2.45E-01	1.45E-02	3.36E-01	3.33E-01	1.13E-01	3.95E-07	3.63E-02	0.00E+00
TEEN	2.38E-01	1.85E-02	5.66E-01	5.80E-01	1.95E-01	6.79E-07	7.29E-02	0.00E+00
CHILD	1.86E-01	1.39E-02	1.29E+00	9.71E-01	3.14E-01	1.67E-06	1.10E-01	0.00E+00
INFANT	1.75E-01	2.65E-02	1.87E+00	1.84E+00	4.93E-01	4.09E-06	1.96E-01	0.00E+00
INHAL								
ADULT	2.31E-03	6.83E-03	1.38E-02	2.81E-03	1.11E-03	1.73E-07	2.03E-02	0.00E+00
TEEN	1.91E-03	7.32E-03	1.65E-02	3.77E-03	1.47E-03	2.30E-07	3.28E-02	0.00E+00
CHILD	1.16E-03	3.45E-03	1.98E-02	3.51E-03	1.31E-03	3.17E-07	2.84E-02	0.00E+00

INFANT	4.60E-04	1.44E-03	8.98E-03	2.49E-03	7.55E-04	2.74E-07	2.42E-02	0.00E+00

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GGNS ESP Airborne Effluents
SPECIAL LOCATION NO. 4 Nearest Milk Cow
AT 10.00 MILES SSW

ANNUAL BETA AIR DOSE = 0.00E+00 MILLRADS
ANNUAL GAMMA AIR DOSE = 0.00E+00 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GROUND	9.72E-04	9.72E-04	9.72E-04	9.72E-04	9.72E-04	9.72E-04	9.72E-04	1.13E-03
VEGET								
ADULT	8.47E-04	6.38E-04	9.03E-03	9.56E-04	3.56E-04	2.45E-07	9.59E-05	0.00E+00
TEEN	8.29E-04	7.28E-04	1.23E-02	1.46E-03	5.32E-04	3.63E-07	1.69E-04	0.00E+00
CHILD	9.98E-04	5.51E-04	2.55E-02	2.38E-03	8.35E-04	8.72E-07	2.51E-04	0.00E+00
MEAT								
ADULT	9.95E-05	6.87E-04	2.10E-04	1.55E-04	8.71E-05	4.39E-07	1.02E-05	0.00E+00
TEEN	5.48E-05	3.92E-04	1.55E-04	1.22E-04	6.68E-05	3.45E-07	9.41E-06	0.00E+00
CHILD	5.56E-05	2.15E-04	2.58E-04	1.50E-04	8.04E-05	6.50E-07	1.09E-05	0.00E+00
COW MILK								
ADULT	6.96E-04	2.21E-04	1.03E-03	1.04E-03	4.41E-04	2.36E-08	8.71E-05	0.00E+00
TEEN	7.58E-04	2.63E-04	1.70E-03	1.79E-03	7.44E-04	4.06E-08	1.75E-04	0.00E+00
CHILD	8.23E-04	1.79E-04	3.79E-03	2.94E-03	1.17E-03	9.99E-08	2.64E-04	0.00E+00
INFANT	9.07E-04	9.52E-04	5.38E-03	5.49E-03	1.76E-03	2.44E-07	4.71E-04	0.00E+00
GOATMILK								

ADULT	1.76E-03	1.04E-04	2.43E-03	2.40E-03	8.11E-04	2.84E-09	2.61E-04	0.00E+00
TEEN	1.71E-03	1.33E-04	4.08E-03	4.18E-03	1.40E-03	4.87E-09	5.25E-04	0.00E+00
CHILD	1.34E-03	9.97E-05	9.26E-03	7.00E-03	2.27E-03	1.20E-08	7.93E-04	0.00E+00
INFANT	1.26E-03	1.91E-04	1.35E-02	1.33E-02	3.55E-03	2.93E-08	1.41E-03	0.00E+00
INHAL								
ADULT	3.11E-05	8.82E-05	1.86E-04	3.77E-05	1.49E-05	2.32E-09	2.71E-04	0.00E+00
TEEN	2.57E-05	9.41E-05	2.22E-04	5.08E-05	1.97E-05	3.08E-09	4.38E-04	0.00E+00
CHILD	1.56E-05	4.36E-05	2.66E-04	4.72E-05	1.77E-05	4.25E-09	3.78E-04	0.00E+00
INFANT	6.19E-06	1.82E-05	1.21E-04	3.35E-05	1.02E-05	3.67E-09	3.23E-04	0.00E+00

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GGNS ESP Airborne Effluents
SPECIAL LOCATION NO. 5 Nearest Meat Cow
AT 4.00 MILES S

ANNUAL BETA AIR DOSE = 0.00E+00 MILLRADS
ANNUAL GAMMA AIR DOSE = 0.00E+00 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GROUND	4.51E-03	4.51E-03	4.51E-03	4.51E-03	4.51E-03	4.51E-03	4.51E-03	5.26E-03
VEGET								
ADULT	3.93E-03	2.97E-03	4.19E-02	4.44E-03	1.65E-03	1.14E-06	4.45E-04	0.00E+00
TEEN	3.85E-03	3.38E-03	5.69E-02	6.76E-03	2.47E-03	1.69E-06	7.86E-04	0.00E+00
CHILD	4.63E-03	2.56E-03	1.18E-01	1.10E-02	3.87E-03	4.06E-06	1.16E-03	0.00E+00
MEAT								
ADULT	4.62E-04	3.20E-03	9.74E-04	7.19E-04	4.05E-04	2.04E-06	4.74E-05	0.00E+00

TEEN	2.54E-04	1.82E-03	7.18E-04	5.65E-04	3.10E-04	1.61E-06	4.37E-05	0.00E+00
CHILD	2.58E-04	1.00E-03	1.20E-03	6.96E-04	3.73E-04	3.02E-06	5.04E-05	0.00E+00
COW MILK								
ADULT	3.23E-03	1.03E-03	4.78E-03	4.81E-03	2.05E-03	1.10E-07	4.04E-04	0.00E+00
TEEN	3.52E-03	1.23E-03	7.89E-03	8.31E-03	3.46E-03	1.89E-07	8.13E-04	0.00E+00
CHILD	3.82E-03	8.35E-04	1.76E-02	1.36E-02	5.45E-03	4.65E-07	1.23E-03	0.00E+00
INFANT	4.21E-03	4.42E-03	2.50E-02	2.55E-02	8.20E-03	1.14E-06	2.18E-03	0.00E+00
GOATMILK								
ADULT	8.18E-03	4.84E-04	1.13E-02	1.11E-02	3.76E-03	1.32E-08	1.21E-03	0.00E+00
TEEN	7.95E-03	6.19E-04	1.89E-02	1.94E-02	6.51E-03	2.27E-08	2.44E-03	0.00E+00
CHILD	6.22E-03	4.63E-04	4.30E-02	3.25E-02	1.05E-02	5.58E-08	3.68E-03	0.00E+00
INFANT	5.84E-03	8.86E-04	6.25E-02	6.17E-02	1.65E-02	1.36E-07	6.55E-03	0.00E+00
INHAL								
ADULT	7.16E-05	2.08E-04	4.29E-04	8.70E-05	3.43E-05	5.36E-09	6.28E-04	0.00E+00
TEEN	5.93E-05	2.23E-04	5.12E-04	1.17E-04	4.54E-05	7.12E-09	1.01E-03	0.00E+00
CHILD	3.59E-05	1.04E-04	6.13E-04	1.09E-04	4.07E-05	9.82E-09	8.77E-04	0.00E+00
INFANT	1.43E-05	4.36E-05	2.78E-04	7.71E-05	2.34E-05	8.48E-09	7.49E-04	0.00E+00

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GGNS ESP Airborne Effluents
ANNUAL INDIVIDUAL DOSE (MREM) SUMMARY BY PATHWAY AND NUCLIDE
SPECIAL LOCATION NO. 1 Local Residence
PATHWAY = INHAL

AGE GROUP = ADULT

NUCLIDE	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
Y 91	3.59E-07	1.11E-05	1.34E-05	0.00E+00	0.00E+00	0.00E+00	4.94E-05	0.00E+00

	.03%	.30%	.18%	.00%	.00%	.00%	.45%	.00%
Y 92	2.25E-11	5.49E-06	7.71E-10	0.00E+00	0.00E+00	0.00E+00	1.17E-06	0.00E+00
	.00%	.15%	.00%	.00%	.00%	.00%	.01%	.00%
Y 93	3.49E-10	5.64E-05	1.26E-08	0.00E+00	0.00E+00	0.00E+00	6.48E-06	0.00E+00
	.00%	1.52%	.00%	.00%	.00%	.00%	.06%	.00%
ZR 95	4.47E-06	2.89E-05	2.06E-05	6.61E-06	1.04E-05	0.00E+00	3.40E-04	0.00E+00
	.36%	.78%	.27%	.43%	1.73%	.00%	3.08%	.00%
NB 95	4.26E-06	1.05E-04	1.42E-05	7.91E-06	7.83E-06	0.00E+00	5.11E-04	0.00E+00
	.34%	2.84%	.19%	.52%	1.30%	.00%	4.63%	.00%
MO 99	1.65E-07	1.78E-03	0.00E+00	8.66E-07	2.09E-06	0.00E+00	6.54E-04	0.00E+00
	.01%	47.94%	.00%	.06%	.35%	.00%	5.93%	.00%
TC 99M	1.33E-12	1.49E-07	3.70E-14	1.04E-13	1.58E-12	0.00E+00	2.74E-08	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
RU103	2.79E-07	4.67E-05	6.47E-07	0.00E+00	2.47E-06	0.00E+00	2.14E-04	0.00E+00
	.02%	1.26%	.00%	.00%	.41%	.00%	1.94%	.00%
RU106	1.23E-07	1.29E-05	9.74E-07	0.00E+00	1.88E-06	0.00E+00	1.32E-04	0.00E+00
	.00%	.35%	.01%	.00%	.31%	.00%	1.20%	.00%
AG110M	1.43E-09	7.29E-08	2.60E-09	2.41E-09	4.74E-09	0.00E+00	1.12E-06	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.01%	.00%
TE129M	4.18E-08	1.01E-05	2.57E-07	1.23E-07	9.64E-07	9.07E-08	3.06E-05	0.00E+00
	.00%	.27%	.00%	.00%	.16%	96.62%	.28%	.00%
SB124	2.70E-07	8.86E-06	6.80E-07	1.28E-08	0.00E+00	1.65E-09	5.41E-05	0.00E+00
	.02%	.24%	.00%	.00%	.00%	1.75%	.49%	.00%
SB125	1.39E-07	1.11E-06	5.88E-07	6.56E-09	0.00E+00	5.95E-10	1.92E-05	0.00E+00
	.01%	.03%	.00%	.00%	.00%	.63%	.17%	.00%
TE131M	2.64E-10	5.06E-06	6.36E-10	3.97E-10	2.81E-09	5.01E-10	1.32E-06	0.00E+00
	.00%	.14%	.00%	.00%	.00%	.53%	.01%	.00%
TE132	3.68E-10	1.16E-06	5.92E-10	4.90E-10	3.31E-09	4.32E-10	6.56E-07	0.00E+00

	.00%	.03%	.00%	.00%	.00%	.46%	.00%	.00%
CS134	5.44E-04	7.77E-06	2.78E-04	6.33E-04	2.14E-04	0.00E+00	7.29E-05	0.00E+00
	43.40%	.21%	3.71%	41.59%	35.71%	.00%	.66%	.00%
CS136	7.91E-06	8.37E-07	2.80E-06	1.05E-05	6.14E-06	0.00E+00	8.60E-07	0.00E+00
	.63%	.02%	.04%	.69%	1.02%	.00%	.00%	.00%
CS137	4.87E-04	9.56E-06	5.45E-04	7.07E-04	2.53E-04	0.00E+00	8.56E-05	0.00E+00
	38.89%	.26%	7.25%	46.41%	42.15%	.00%	.78%	.00%
CS138	6.65E-09	3.83E-14	6.80E-09	1.28E-08	9.86E-09	0.00E+00	9.97E-10	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
BA140	8.37E-06	7.12E-04	1.27E-04	1.60E-07	5.45E-08	0.00E+00	4.14E-03	0.00E+00
	.67%	19.19%	1.69%	.01%	.00%	.00%	37.59%	.00%
LA140	9.99E-09	9.99E-05	7.50E-08	3.79E-08	0.00E+00	0.00E+00	2.97E-05	0.00E+00
	.00%	2.70%	.00%	.00%	.00%	.00%	.27%	.00%
CE141	1.69E-06	1.33E-04	2.21E-05	1.50E-05	6.94E-06	0.00E+00	4.01E-04	0.00E+00
	.14%	3.59%	.29%	.98%	1.16%	.00%	3.63%	.00%
CE144	4.19E-07	1.86E-06	7.81E-06	3.26E-06	1.93E-06	0.00E+00	1.77E-05	0.00E+00
	.03%	.05%	.10%	.21%	.32%	.00%	.16%	.00%
PR144	3.48E-15	4.90E-20	6.85E-14	2.84E-14	1.60E-14	0.00E+00	2.31E-09	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
W 187	5.65E-11	3.53E-06	1.93E-10	1.61E-10	0.00E+00	0.00E+00	6.61E-07	0.00E+00
	.00%	.10%	.00%	.00%	.00%	.00%	.00%	.00%
NP239	1.78E-08	1.71E-04	3.29E-07	2.91E-07	1.00E-07	0.00E+00	5.39E-05	0.00E+00
	.00%	4.61%	.00%	.02%	.02%	.00%	.49%	.00%
ZN 65	6.23E-05	7.15E-05	4.33E-05	1.38E-04	9.22E-05	0.00E+00	1.16E-03	0.00E+00
	4.97%	1.93%	.58%	9.06%	15.35%	.00%	10.48%	.00%
RB 89	8.84E-10	4.83E-23	0.00E+00	1.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 89	5.99E-06	2.40E-04	2.09E-04	0.00E+00	0.00E+00	0.00E+00	9.61E-04	0.00E+00

	.48%	6.47%	2.78%	.00%	.00%	.00%	8.72%	.00%
SR 90	1.25E-04	1.56E-04	6.23E-03	0.00E+00	0.00E+00	0.00E+00	2.08E-03	0.00E+00
	9.98%	4.22%	82.87%	.00%	.00%	.00%	18.88%	.00%
Y 90	3.10E-10	2.80E-06	1.16E-08	0.00E+00	0.00E+00	0.00E+00	9.39E-07	0.00E+00
	.00%	.08%	.00%	.00%	.00%	.00%	.00%	.00%
SR 91	3.02E-10	2.30E-05	7.46E-09	0.00E+00	0.00E+00	0.00E+00	4.39E-06	0.00E+00
	.00%	.62%	.00%	.00%	.00%	.00%	.04%	.00%
SR 92	2.75E-11	4.07E-06	6.38E-10	0.00E+00	0.00E+00	0.00E+00	1.56E-06	0.00E+00
	.00%	.11%	.00%	.00%	.00%	.00%	.01%	.00%
TOTAL	1.25E-03	3.71E-03	7.51E-03	1.52E-03	6.01E-04	9.39E-08	1.10E-02	0.00E+00

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GGNS ESP Airborne Effluents
ANNUAL INDIVIDUAL DOSE (MREM) SUMMARY BY PATHWAY AND NUCLIDE
SPECIAL LOCATION NO. 1 Local Residence
PATHWAY = INHAL

AGE GROUP = TEEN

NUCLIDE	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
Y 91	5.12E-07	1.18E-05	1.91E-05	0.00E+00	0.00E+00	0.00E+00	8.51E-05	0.00E+00
	.05%	.30%	.21%	.00%	.00%	.00%	.48%	.00%
Y 92	3.20E-11	1.23E-05	1.10E-09	0.00E+00	0.00E+00	0.00E+00	2.00E-06	0.00E+00
	.00%	.31%	.00%	.00%	.00%	.00%	.01%	.00%
Y 93	4.97E-10	7.74E-05	1.81E-08	0.00E+00	0.00E+00	0.00E+00	1.11E-05	0.00E+00
	.00%	1.95%	.00%	.00%	.00%	.00%	.06%	.00%
ZR 95	6.06E-06	2.86E-05	2.80E-05	8.81E-06	1.29E-05	0.00E+00	5.16E-04	0.00E+00
	.58%	.72%	.31%	.43%	1.63%	.00%	2.90%	.00%
NB 95	5.73E-06	9.79E-05	1.88E-05	1.04E-05	1.01E-05	0.00E+00	7.60E-04	0.00E+00
	.55%	2.46%	.21%	.51%	1.27%	.00%	4.26%	.00%
MO 99	2.31E-07	1.93E-03	0.00E+00	1.21E-06	2.95E-06	0.00E+00	1.10E-03	0.00E+00

	.02%	48.47%	.00%	.06%	.37%	.00%	6.18%	.00%
TC 99M	1.79E-12	2.20E-07	4.96E-14	1.38E-13	2.06E-12	0.00E+00	4.13E-08	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
RU103	3.79E-07	4.61E-05	8.91E-07	0.00E+00	3.15E-06	0.00E+00	3.32E-04	0.00E+00
	.04%	1.16%	.00%	.00%	.40%	.00%	1.86%	.00%
RU106	1.75E-07	1.35E-05	1.39E-06	0.00E+00	2.68E-06	0.00E+00	2.27E-04	0.00E+00
	.02%	.34%	.02%	.00%	.34%	.00%	1.27%	.00%
AG110M	1.93E-09	6.57E-08	3.33E-09	3.16E-09	6.03E-09	0.00E+00	1.63E-06	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TE129M	5.93E-08	1.07E-05	3.67E-07	1.74E-07	1.37E-06	1.21E-07	5.21E-05	0.00E+00
	.00%	.27%	.00%	.00%	.17%	96.70%	.29%	.00%
SB124	3.66E-07	8.69E-06	9.38E-07	1.73E-08	0.00E+00	2.13E-09	8.39E-05	0.00E+00
	.04%	.22%	.01%	.00%	.00%	1.70%	.47%	.00%
SB125	1.90E-07	1.09E-06	8.14E-07	8.91E-09	0.00E+00	7.76E-10	3.02E-05	0.00E+00
	.02%	.03%	.00%	.00%	.00%	.62%	.17%	.00%
TE131M	3.66E-10	5.65E-06	8.95E-10	5.46E-10	3.99E-09	6.59E-10	2.16E-06	0.00E+00
	.00%	.14%	.00%	.00%	.00%	.53%	.01%	.00%
TE132	4.99E-10	1.05E-06	8.20E-10	6.61E-10	4.44E-09	5.59E-10	1.02E-06	0.00E+00
	.00%	.03%	.00%	.00%	.00%	.45%	.00%	.00%
CS134	4.10E-04	7.29E-06	3.75E-04	8.42E-04	2.80E-04	0.00E+00	1.09E-04	0.00E+00
	39.46%	.18%	4.19%	41.15%	35.21%	.00%	.61%	.00%
CS136	9.80E-06	7.80E-07	3.69E-06	1.39E-05	7.91E-06	0.00E+00	1.27E-06	0.00E+00
	.94%	.02%	.04%	.68%	.99%	.00%	.00%	.00%
CS137	3.54E-04	9.65E-06	7.63E-04	9.65E-04	3.46E-04	0.00E+00	1.38E-04	0.00E+00
	34.11%	.24%	8.51%	47.15%	43.49%	.00%	.77%	.00%
CS138	9.17E-09	5.55E-12	9.56E-09	1.76E-08	1.36E-08	0.00E+00	1.62E-09	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
BA140	1.15E-05	7.46E-04	1.78E-04	2.18E-07	7.43E-08	0.00E+00	6.62E-03	0.00E+00

	1.10%	18.75%	1.99%	.01%	.00%	.00%	37.14%	.00%
LA140	1.36E-08	1.06E-04	1.04E-07	5.15E-08	0.00E+00	0.00E+00	4.67E-05	0.00E+00
	.00%	2.67%	.00%	.00%	.00%	.00%	.26%	.00%
CE141	2.40E-06	1.40E-04	3.15E-05	2.10E-05	9.84E-06	0.00E+00	6.80E-04	0.00E+00
	.23%	3.52%	.35%	1.03%	1.24%	.00%	3.81%	.00%
CE144	5.97E-07	1.97E-06	1.11E-05	4.61E-06	2.75E-06	0.00E+00	3.04E-05	0.00E+00
	.06%	.05%	.12%	.23%	.35%	.00%	.17%	.00%
PR144	4.95E-15	5.35E-16	9.78E-14	4.01E-14	2.29E-14	0.00E+00	3.99E-09	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
W 187	7.81E-11	4.03E-06	2.73E-10	2.22E-10	0.00E+00	0.00E+00	1.08E-06	0.00E+00
	.00%	.10%	.00%	.00%	.00%	.00%	.00%	.00%
NP239	2.53E-08	1.89E-04	4.85E-07	4.13E-07	1.43E-07	0.00E+00	9.30E-05	0.00E+00
	.00%	4.76%	.00%	.02%	.02%	.00%	.52%	.00%
ZN 65	8.34E-05	6.24E-05	5.16E-05	1.79E-04	1.16E-04	0.00E+00	1.66E-03	0.00E+00
	8.03%	1.57%	.58%	8.73%	14.52%	.00%	9.30%	.00%
RB 89	1.21E-09	1.76E-18	0.00E+00	1.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 89	8.57E-06	2.55E-04	2.98E-04	0.00E+00	0.00E+00	0.00E+00	1.66E-03	0.00E+00
	.83%	6.41%	3.33%	.00%	.00%	.00%	9.31%	.00%
SR 90	1.44E-04	1.66E-04	7.18E-03	0.00E+00	0.00E+00	0.00E+00	3.57E-03	0.00E+00
	13.91%	4.17%	80.10%	.00%	.00%	.00%	20.04%	.00%
Y 90	4.43E-10	3.10E-06	1.65E-08	0.00E+00	0.00E+00	0.00E+00	1.62E-06	0.00E+00
	.00%	.08%	.00%	.00%	.00%	.00%	.00%	.00%
SR 91	4.23E-10	3.12E-05	1.06E-08	0.00E+00	0.00E+00	0.00E+00	7.31E-06	0.00E+00
	.00%	.79%	.00%	.00%	.00%	.00%	.04%	.00%
SR 92	3.84E-11	1.13E-05	9.00E-10	0.00E+00	0.00E+00	0.00E+00	2.59E-06	0.00E+00
	.00%	.28%	.00%	.00%	.00%	.00%	.01%	.00%
TOTAL	1.04E-03	3.98E-03	8.97E-03	2.05E-03	7.96E-04	1.25E-07	1.78E-02	0.00E+00

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GGNS ESP Airborne Effluents
ANNUAL INDIVIDUAL DOSE (MREM) SUMMARY BY PATHWAY AND NUCLIDE
SPECIAL LOCATION NO. 1 Local Residence
PATHWAY = INHAL

AGE GROUP = CHILD

NUCLIDE	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
Y 91	7.06E-07	5.33E-06	2.65E-05	0.00E+00	0.00E+00	0.00E+00	7.61E-05	0.00E+00
	.11%	.28%	.25%	.00%	.00%	.00%	.49%	.00%
Y 92	4.34E-11	1.79E-05	1.52E-09	0.00E+00	0.00E+00	0.00E+00	1.79E-06	0.00E+00
	.00%	.95%	.00%	.00%	.00%	.00%	.01%	.00%
Y 93	6.83E-10	5.19E-05	2.49E-08	0.00E+00	0.00E+00	0.00E+00	9.94E-06	0.00E+00
	.00%	2.78%	.00%	.00%	.00%	.00%	.06%	.00%
ZR 95	7.11E-06	1.17E-05	3.65E-05	8.03E-06	1.14E-05	0.00E+00	4.29E-04	0.00E+00
	1.13%	.63%	.34%	.42%	1.61%	.00%	2.78%	.00%
NB 95	6.63E-06	3.74E-05	2.38E-05	9.28E-06	8.72E-06	0.00E+00	6.21E-04	0.00E+00
	1.05%	2.00%	.22%	.49%	1.22%	.00%	4.03%	.00%
MO 99	3.05E-07	9.07E-04	0.00E+00	1.24E-06	2.81E-06	0.00E+00	9.71E-04	0.00E+00
	.05%	48.49%	.00%	.06%	.39%	.00%	6.30%	.00%
TC 99M	2.07E-12	1.72E-07	6.38E-14	1.25E-13	1.82E-12	0.00E+00	3.41E-08	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
RU103	4.54E-07	1.90E-05	1.18E-06	0.00E+00	2.98E-06	0.00E+00	2.80E-04	0.00E+00
	.07%	1.01%	.01%	.00%	.42%	.00%	1.82%	.00%
RU106	2.38E-07	6.05E-06	1.92E-06	0.00E+00	2.59E-06	0.00E+00	2.02E-04	0.00E+00
	.04%	.32%	.02%	.00%	.36%	.00%	1.31%	.00%
AG110M	2.20E-09	2.42E-08	4.06E-09	2.75E-09	5.12E-09	0.00E+00	1.32E-06	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TE129M	8.02E-08	4.79E-06	5.07E-07	1.81E-07	1.33E-06	1.67E-07	4.65E-05	0.00E+00

	.01%	.26%	.00%	.00%	.19%	96.89%	.30%	.00%
SB124	4.36E-07	3.57E-06	1.25E-06	1.61E-08	0.00E+00	2.75E-09	7.07E-05	0.00E+00
	.07%	.19%	.01%	.00%	.00%	1.60%	.46%	.00%
SB125	2.28E-07	4.45E-07	1.08E-06	8.36E-09	0.00E+00	1.00E-09	2.56E-05	0.00E+00
	.04%	.02%	.01%	.00%	.00%	.58%	.17%	.00%
TE131M	4.61E-10	2.80E-06	1.22E-09	5.38E-10	3.63E-09	8.88E-10	1.87E-06	0.00E+00
	.00%	.15%	.00%	.00%	.00%	.52%	.01%	.00%
TE132	6.00E-10	3.13E-07	1.10E-09	6.20E-10	4.03E-09	7.23E-10	8.59E-07	0.00E+00
	.00%	.02%	.00%	.00%	.00%	.42%	.00%	.00%
CS134	1.68E-04	2.87E-06	4.86E-04	7.57E-04	2.47E-04	0.00E+00	9.04E-05	0.00E+00
	26.69%	.15%	4.53%	39.73%	34.62%	.00%	.59%	.00%
CS136	8.33E-06	3.00E-07	4.67E-06	1.23E-05	6.84E-06	0.00E+00	1.04E-06	0.00E+00
	1.32%	.02%	.04%	.64%	.96%	.00%	.00%	.00%
CS137	1.46E-04	4.12E-06	1.03E-03	9.39E-04	3.21E-04	0.00E+00	1.18E-04	0.00E+00
	23.25%	.22%	9.62%	49.28%	45.09%	.00%	.77%	.00%
CS138	1.14E-08	5.54E-09	1.30E-08	1.73E-08	1.28E-08	0.00E+00	1.40E-09	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
BA140	1.41E-05	3.32E-04	2.41E-04	2.11E-07	6.88E-08	0.00E+00	5.68E-03	0.00E+00
	2.24%	17.73%	2.25%	.01%	.00%	.00%	36.87%	.00%
LA140	1.65E-08	4.92E-05	1.40E-07	4.90E-08	0.00E+00	0.00E+00	3.99E-05	0.00E+00
	.00%	2.63%	.00%	.00%	.00%	.00%	.26%	.00%
CE141	3.21E-06	6.27E-05	4.35E-05	2.17E-05	9.47E-06	0.00E+00	6.03E-04	0.00E+00
	.51%	3.35%	.41%	1.14%	1.33%	.00%	3.91%	.00%
CE144	8.23E-07	8.84E-07	1.54E-05	4.82E-06	2.67E-06	0.00E+00	2.72E-05	0.00E+00
	.13%	.05%	.14%	.25%	.37%	.00%	.18%	.00%
PR144	6.82E-15	4.48E-10	1.36E-13	4.20E-14	2.22E-14	0.00E+00	3.56E-09	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
W 187	9.86E-11	2.07E-06	3.71E-10	2.20E-10	0.00E+00	0.00E+00	9.35E-07	0.00E+00

	.00%	.11%	.00%	.00%	.00%	.00%	.00%	.00%
NP239	3.37E-08	9.18E-05	6.68E-07	4.32E-07	1.39E-07	0.00E+00	8.33E-05	0.00E+00
	.00%	4.91%	.00%	.02%	.02%	.00%	.54%	.00%
ZN 65	9.40E-05	2.18E-05	5.69E-05	1.51E-04	9.55E-05	0.00E+00	1.33E-03	0.00E+00
	14.96%	1.17%	.53%	7.94%	13.40%	.00%	8.64%	.00%
RB 89	1.51E-09	9.85E-12	0.00E+00	1.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 89	1.18E-05	1.15E-04	4.12E-04	0.00E+00	0.00E+00	0.00E+00	1.48E-03	0.00E+00
	1.88%	6.14%	3.84%	.00%	.00%	.00%	9.62%	.00%
SR 90	1.66E-04	7.45E-05	8.34E-03	0.00E+00	0.00E+00	0.00E+00	3.20E-03	0.00E+00
	26.42%	3.98%	77.77%	.00%	.00%	.00%	20.78%	.00%
Y 90	6.12E-10	1.48E-06	2.27E-08	0.00E+00	0.00E+00	0.00E+00	1.45E-06	0.00E+00
	.00%	.08%	.00%	.00%	.00%	.00%	.00%	.00%
SR 91	5.53E-10	2.09E-05	1.46E-08	0.00E+00	0.00E+00	0.00E+00	6.42E-06	0.00E+00
	.00%	1.12%	.00%	.00%	.00%	.00%	.04%	.00%
SR 92	4.97E-11	2.29E-05	1.24E-09	0.00E+00	0.00E+00	0.00E+00	2.27E-06	0.00E+00
	.00%	1.23%	.00%	.00%	.00%	.00%	.01%	.00%
TOTAL	6.29E-04	1.87E-03	1.07E-02	1.91E-03	7.13E-04	1.72E-07	1.54E-02	0.00E+00

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GGNS ESP Airborne Effluents
ANNUAL INDIVIDUAL DOSE (MREM) SUMMARY BY PATHWAY AND NUCLIDE
SPECIAL LOCATION NO. 1 Local Residence
PATHWAY = INHAL

AGE GROUP = INFANT

NUCLIDE	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
Y 91	4.54E-07	2.04E-06	1.70E-05	0.00E+00	0.00E+00	0.00E+00	7.10E-05	0.00E+00
	.18%	.26%	.35%	.00%	.00%	.00%	.54%	.00%
Y 92	3.44E-11	9.45E-06	1.22E-09	0.00E+00	0.00E+00	0.00E+00	1.83E-06	0.00E+00

	.00%	1.21%	.00%	.00%	.00%	.00%	.01%	.00%
Y 93	5.45E-10	2.23E-05	2.00E-08	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00
	.00%	2.84%	.00%	.00%	.00%	.00%	.08%	.00%
ZR 95	3.90E-06	4.17E-06	2.22E-05	5.35E-06	5.97E-06	0.00E+00	3.36E-04	0.00E+00
	1.56%	.53%	.45%	.40%	1.46%	.00%	2.56%	.00%
NB 95	3.82E-06	1.28E-05	1.59E-05	6.50E-06	4.77E-06	0.00E+00	4.84E-04	0.00E+00
	1.53%	1.63%	.33%	.48%	1.17%	.00%	3.68%	.00%
MO 99	2.32E-07	3.49E-04	0.00E+00	1.18E-06	1.90E-06	0.00E+00	9.66E-04	0.00E+00
	.09%	44.53%	.00%	.09%	.46%	.00%	7.34%	.00%
TC 99M	1.33E-12	7.27E-08	5.01E-14	1.03E-13	1.11E-12	0.00E+00	2.90E-08	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
RU103	2.88E-07	6.82E-06	8.54E-07	0.00E+00	1.80E-06	0.00E+00	2.34E-04	0.00E+00
	.12%	.87%	.02%	.00%	.44%	.00%	1.78%	.00%
RU106	1.53E-07	2.31E-06	1.22E-06	0.00E+00	1.50E-06	0.00E+00	1.63E-04	0.00E+00
	.06%	.29%	.03%	.00%	.37%	.00%	1.24%	.00%
AG110M	1.20E-09	7.96E-09	2.40E-09	1.74E-09	2.63E-09	0.00E+00	8.84E-07	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TE129M	5.87E-08	1.82E-06	3.73E-07	1.61E-07	8.38E-07	1.44E-07	4.43E-05	0.00E+00
	.02%	.23%	.00%	.01%	.20%	97.09%	.34%	.00%
SB124	2.61E-07	1.29E-06	8.27E-07	1.21E-08	0.00E+00	2.19E-09	5.77E-05	0.00E+00
	.10%	.16%	.02%	.00%	.00%	1.47%	.44%	.00%
SB125	1.20E-07	1.62E-07	5.69E-07	5.26E-09	0.00E+00	6.87E-10	1.81E-05	0.00E+00
	.05%	.02%	.01%	.00%	.00%	.46%	.14%	.00%
TE131M	3.30E-10	1.08E-06	9.70E-10	5.00E-10	2.41E-09	8.12E-10	1.81E-06	0.00E+00
	.00%	.14%	.00%	.00%	.00%	.55%	.01%	.00%
TE132	4.02E-10	1.00E-07	8.48E-10	5.39E-10	2.36E-09	6.34E-10	7.75E-07	0.00E+00
	.00%	.01%	.00%	.00%	.00%	.43%	.00%	.00%
CS134	5.56E-05	9.96E-07	2.96E-04	5.25E-04	1.42E-04	0.00E+00	5.95E-05	0.00E+00

	22.28%	.13%	6.07%	38.89%	34.71%	.00%	.45%	.00%
CS136	3.79E-06	1.02E-07	3.46E-06	9.64E-06	4.04E-06	0.00E+00	8.43E-07	0.00E+00
	1.52%	.01%	.07%	.71%	.99%	.00%	.00%	.00%
CS137	5.18E-05	1.52E-06	6.25E-04	6.96E-04	1.96E-04	0.00E+00	8.11E-05	0.00E+00
	20.74%	.19%	12.82%	51.60%	47.85%	.00%	.62%	.00%
CS138	8.17E-09	1.80E-08	1.04E-08	1.60E-08	8.42E-09	0.00E+00	1.34E-09	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
BA140	9.44E-06	1.25E-04	1.82E-04	1.82E-07	4.37E-08	0.00E+00	5.20E-03	0.00E+00
	3.78%	15.94%	3.74%	.01%	.01%	.00%	39.53%	.00%
LA140	1.12E-08	1.85E-05	1.10E-07	4.37E-08	0.00E+00	0.00E+00	3.66E-05	0.00E+00
	.00%	2.36%	.00%	.00%	.00%	.00%	.28%	.00%
CE141	2.20E-06	2.39E-05	3.07E-05	1.85E-05	5.82E-06	0.00E+00	5.73E-04	0.00E+00
	.88%	3.05%	.63%	1.37%	1.42%	.00%	4.35%	.00%
CE144	4.02E-07	3.38E-07	7.27E-06	2.76E-06	1.22E-06	0.00E+00	2.24E-05	0.00E+00
	.16%	.04%	.15%	.20%	.30%	.00%	.17%	.00%
PR144	5.48E-15	9.75E-09	1.09E-13	4.21E-14	1.53E-14	0.00E+00	3.67E-09	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
W 187	7.11E-11	8.10E-07	2.95E-10	2.05E-10	0.00E+00	0.00E+00	9.02E-07	0.00E+00
	.00%	.10%	.00%	.00%	.00%	.00%	.00%	.00%
NP239	2.69E-08	3.57E-05	5.32E-07	4.27E-07	9.49E-08	0.00E+00	8.53E-05	0.00E+00
	.01%	4.56%	.01%	.03%	.02%	.00%	.65%	.00%
ZN 65	4.16E-05	6.87E-05	2.58E-05	8.37E-05	4.34E-05	0.00E+00	8.65E-04	0.00E+00
	16.64%	8.76%	.53%	6.20%	10.60%	.00%	6.57%	.00%
RB 89	1.07E-09	3.55E-10	0.00E+00	1.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 89	7.83E-06	4.39E-05	2.73E-04	0.00E+00	0.00E+00	0.00E+00	1.39E-03	0.00E+00
	3.14%	5.60%	5.60%	.00%	.00%	.00%	10.59%	.00%
SR 90	6.77E-05	2.84E-05	3.37E-03	0.00E+00	0.00E+00	0.00E+00	2.44E-03	0.00E+00

	27.11%	3.62%	69.15%	.00%	.00%	.00%	18.53%	.00%
Y 90	4.88E-10	5.76E-07	1.82E-08	0.00E+00	0.00E+00	0.00E+00	1.49E-06	0.00E+00
	.00%	.07%	.00%	.00%	.00%	.00%	.01%	.00%
SR 91	4.17E-10	8.84E-06	1.15E-08	0.00E+00	0.00E+00	0.00E+00	6.34E-06	0.00E+00
	.00%	1.13%	.00%	.00%	.00%	.00%	.05%	.00%
SR 92	3.69E-11	1.32E-05	9.93E-10	0.00E+00	0.00E+00	0.00E+00	2.25E-06	0.00E+00
	.00%	1.69%	.00%	.00%	.00%	.00%	.02%	.00%
TOTAL	2.50E-04	7.84E-04	4.87E-03	1.35E-03	4.10E-04	1.49E-07	1.32E-02	0.00E+00

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GGNS ESP Airborne Effluents
ANNUAL INDIVIDUAL DOSE (MREM) SUMMARY BY PATHWAY AND NUCLIDE
SPECIAL LOCATION NO. 2 Nearest Garden
PATHWAY = VEGET

AGE GROUP = ADULT

NUCLIDE	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
Y 91	1.70E-08	3.49E-04	6.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.87%	.00%	.00%	.00%	.00%	.00%	.00%
Y 92	5.67E-15	3.40E-09	1.94E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
Y 93	1.76E-12	2.02E-06	6.36E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
ZR 95	2.03E-07	9.48E-04	9.33E-07	2.99E-07	4.70E-07	0.00E+00	0.00E+00	0.00E+00
	.00%	2.37%	.00%	.00%	.00%	.00%	.00%	.00%
NB 95	2.39E-07	2.70E-03	7.98E-07	4.44E-07	4.39E-07	0.00E+00	0.00E+00	0.00E+00
	.00%	6.74%	.00%	.00%	.00%	.00%	.00%	.00%
MO 99	2.95E-05	3.59E-04	0.00E+00	1.55E-04	3.51E-04	0.00E+00	0.00E+00	0.00E+00
	.06%	.90%	.00%	.26%	1.58%	.00%	.00%	.00%
TC 99M	1.13E-11	5.26E-10	3.15E-13	8.89E-13	1.35E-11	0.00E+00	4.36E-13	0.00E+00

	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
RU103	4.54E-06	1.23E-03	1.05E-05	0.00E+00	4.02E-05	0.00E+00	0.00E+00	0.00E+00
	.00%	3.08%	.00%	.00%	.18%	.00%	.00%	.00%
RU106	1.06E-06	5.44E-04	8.40E-06	0.00E+00	1.62E-05	0.00E+00	0.00E+00	0.00E+00
	.00%	1.36%	.00%	.00%	.07%	.00%	.00%	.00%
AG110M	4.75E-09	3.26E-06	8.64E-09	7.99E-09	1.57E-08	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TE129M	7.05E-06	2.24E-04	4.45E-05	1.66E-05	1.86E-04	1.53E-05	0.00E+00	0.00E+00
	.01%	.56%	.00%	.03%	.84%	99.50%	.00%	.00%
SB124	3.80E-06	2.72E-04	9.59E-06	1.81E-07	0.00E+00	2.33E-08	7.47E-06	0.00E+00
	.00%	.68%	.00%	.00%	.00%	.15%	.12%	.00%
SB125	1.03E-06	4.76E-05	4.33E-06	4.83E-08	0.00E+00	4.40E-09	3.33E-06	0.00E+00
	.00%	.12%	.00%	.00%	.00%	.03%	.06%	.00%
TE131M	1.02E-08	1.21E-06	2.50E-08	1.22E-08	1.24E-07	1.94E-08	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.13%	.00%	.00%
TE132	2.50E-08	1.26E-06	4.12E-08	2.67E-08	2.57E-07	2.94E-08	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.19%	.00%	.00%
CS134	1.95E-02	4.17E-04	1.00E-02	2.38E-02	7.71E-03	0.00E+00	2.56E-03	0.00E+00
	36.80%	1.04%	1.78%	39.89%	34.67%	.00%	42.74%	.00%
CS136	7.91E-05	1.25E-05	2.78E-05	1.10E-04	6.12E-05	0.00E+00	8.38E-06	0.00E+00
	.15%	.03%	.00%	.18%	.28%	.00%	.14%	.00%
CS137	1.98E-02	5.84E-04	2.21E-02	3.02E-02	1.02E-02	0.00E+00	3.40E-03	0.00E+00
	37.37%	1.46%	3.92%	50.56%	46.08%	.00%	56.89%	.00%
CS138	2.08E-24	1.79E-29	2.12E-24	4.19E-24	3.08E-24	0.00E+00	3.04E-25	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
BA140	2.52E-04	7.91E-03	3.84E-03	4.83E-06	1.64E-06	0.00E+00	2.76E-06	0.00E+00
	.48%	19.79%	.68%	.00%	.00%	.00%	.05%	.00%
LA140	1.68E-10	4.67E-05	1.26E-09	6.35E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00

	.00%	.12%	.00%	.00%	.00%	.00%	.00%	.00%
CE141	9.67E-08	3.26E-03	1.26E-06	8.53E-07	3.96E-07	0.00E+00	0.00E+00	0.00E+00
	.00%	8.15%	.00%	.00%	.00%	.00%	.00%	.00%
CE144	1.20E-08	7.58E-05	2.24E-07	9.38E-08	5.56E-08	0.00E+00	0.00E+00	0.00E+00
	.00%	.19%	.00%	.00%	.00%	.00%	.00%	.00%
PR144	7.47E-42	0.00E+00	1.47E-40	6.10E-41	3.44E-41	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
W 187	7.22E-10	6.77E-07	2.47E-09	2.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
NP239	3.58E-10	1.33E-04	6.61E-09	6.50E-10	2.03E-09	0.00E+00	0.00E+00	0.00E+00
	.00%	.33%	.00%	.00%	.00%	.00%	.00%	.00%
ZN 65	2.45E-03	3.41E-03	1.70E-03	5.41E-03	3.62E-03	0.00E+00	0.00E+00	0.00E+00
	4.63%	8.53%	.30%	9.07%	16.29%	.00%	.00%	.00%
RB 89	1.40E-40	0.00E+00	0.00E+00	1.99E-40	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 89	8.99E-04	5.03E-03	3.13E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	1.70%	12.57%	5.56%	.00%	.00%	.00%	.00%	.00%
SR 90	9.93E-03	1.24E-02	4.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	18.78%	31.09%	87.74%	.00%	.00%	.00%	.00%	.00%
Y 90	6.80E-12	2.69E-06	2.54E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 91	4.16E-09	4.91E-07	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 92	4.85E-12	2.22E-09	1.12E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TOTAL	5.29E-02	4.00E-02	5.64E-01	5.97E-02	2.22E-02	1.54E-05	5.98E-03	0.00E+00

GGNS ESP Airborne Effluents
ANNUAL INDIVIDUAL DOSE (MREM) SUMMARY BY PATHWAY AND NUCLIDE
SPECIAL LOCATION NO. 2 Nearest Garden
PATHWAY = VEGET

AGE GROUP = TEEN

NUCLIDE	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
Y 91	2.73E-08	4.17E-04	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.91%	.00%	.00%	.00%	.00%	.00%	.00%
Y 92	5.27E-15	5.00E-09	1.82E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
Y 93	1.64E-12	1.82E-06	5.97E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
ZR 95	3.08E-07	1.04E-03	1.42E-06	4.49E-07	6.59E-07	0.00E+00	0.00E+00	0.00E+00
	.00%	2.27%	.00%	.00%	.00%	.00%	.00%	.00%
NB 95	3.59E-07	2.79E-03	1.18E-06	6.53E-07	6.33E-07	0.00E+00	0.00E+00	0.00E+00
	.00%	6.12%	.00%	.00%	.00%	.00%	.00%	.00%
MO 99	3.15E-05	2.95E-04	0.00E+00	1.65E-04	3.77E-04	0.00E+00	0.00E+00	0.00E+00
	.06%	.65%	.00%	.18%	1.13%	.00%	.00%	.00%
TC 99M	1.00E-11	5.08E-10	2.78E-13	7.74E-13	1.15E-11	0.00E+00	4.30E-13	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
RU103	6.94E-06	1.36E-03	1.62E-05	0.00E+00	5.73E-05	0.00E+00	0.00E+00	0.00E+00
	.01%	2.97%	.00%	.00%	.17%	.00%	.00%	.00%
RU106	1.71E-06	6.51E-04	1.36E-05	0.00E+00	2.62E-05	0.00E+00	0.00E+00	0.00E+00
	.00%	1.43%	.00%	.00%	.08%	.00%	.00%	.00%
AG110M	7.21E-09	3.33E-06	1.25E-08	1.19E-08	2.26E-08	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TE129M	1.11E-05	2.64E-04	7.03E-05	2.61E-05	2.94E-04	2.27E-05	0.00E+00	0.00E+00
	.02%	.58%	.00%	.03%	.88%	99.61%	.00%	.00%
SB124	5.81E-06	3.00E-04	1.49E-05	2.75E-07	0.00E+00	3.38E-08	1.30E-05	0.00E+00

	.01%	.66%	.00%	.00%	.00%	.15%	.12%	.00%
SB125	1.59E-06	5.29E-05	6.79E-06	7.42E-08	0.00E+00	6.49E-09	5.97E-06	0.00E+00
	.00%	.12%	.00%	.00%	.00%	.03%	.06%	.00%
TE131M	9.29E-09	8.94E-07	2.32E-08	1.11E-08	1.16E-07	1.68E-08	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.07%	.00%	.00%
TE132	2.76E-08	9.30E-07	4.64E-08	2.94E-08	2.82E-07	3.09E-08	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.14%	.00%	.00%
CS134	1.67E-02	4.47E-04	1.53E-02	3.59E-02	1.14E-02	0.00E+00	4.36E-03	0.00E+00
	32.18%	.98%	1.99%	39.46%	34.31%	.00%	41.19%	.00%
CS136	1.05E-04	1.25E-05	3.95E-05	1.56E-04	8.47E-05	0.00E+00	1.34E-05	0.00E+00
	.20%	.03%	.00%	.17%	.25%	.00%	.13%	.00%
CS137	1.63E-02	6.66E-04	3.52E-02	4.68E-02	1.59E-02	0.00E+00	6.18E-03	0.00E+00
	31.47%	1.46%	4.59%	51.40%	47.85%	.00%	58.46%	.00%
CS138	1.88E-24	1.71E-27	1.96E-24	3.76E-24	2.77E-24	0.00E+00	3.23E-25	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
BA140	3.72E-04	8.91E-03	5.78E-03	7.08E-06	2.40E-06	0.00E+00	4.76E-06	0.00E+00
	.72%	19.54%	.75%	.00%	.00%	.00%	.04%	.00%
LA140	1.54E-10	3.33E-05	1.18E-09	5.79E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.07%	.00%	.00%	.00%	.00%	.00%	.00%
CE141	1.53E-07	3.81E-03	2.00E-06	1.33E-06	6.27E-07	0.00E+00	0.00E+00	0.00E+00
	.00%	8.36%	.00%	.00%	.00%	.00%	.00%	.00%
CE144	1.95E-08	9.10E-05	3.62E-07	1.50E-07	8.95E-08	0.00E+00	0.00E+00	0.00E+00
	.00%	.20%	.00%	.00%	.00%	.00%	.00%	.00%
PR144	6.98E-42	1.51E-43	1.38E-40	5.64E-41	3.23E-41	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
W 187	6.57E-10	5.07E-07	2.30E-09	1.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
NP239	3.70E-10	1.07E-04	7.06E-09	6.66E-10	2.09E-09	0.00E+00	0.00E+00	0.00E+00

	.00%	.23%	.00%	.00%	.00%	.00%	.00%	.00%
ZN 65	3.71E-03	3.37E-03	2.29E-03	7.96E-03	5.09E-03	0.00E+00	0.00E+00	0.00E+00
	7.17%	7.39%	.30%	8.74%	15.31%	.00%	.00%	.00%
RB 89	1.26E-40	0.00E+00	0.00E+00	1.79E-40	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 89	1.44E-03	5.98E-03	5.02E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	2.78%	13.11%	6.56%	.00%	.00%	.00%	.00%	.00%
SR 90	1.31E-02	1.50E-02	6.57E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	25.37%	32.90%	85.78%	.00%	.00%	.00%	.00%	.00%
Y 90	7.33E-12	2.24E-06	2.72E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 91	3.83E-09	4.37E-07	9.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 92	4.45E-12	2.66E-09	1.04E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TOTAL	5.18E-02	4.56E-02	7.66E-01	9.10E-02	3.33E-02	2.28E-05	1.06E-02	0.00E+00

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GGNS ESP Airborne Effluents
ANNUAL INDIVIDUAL DOSE (MREM) SUMMARY BY PATHWAY AND NUCLIDE
SPECIAL LOCATION NO. 2 Nearest Garden
PATHWAY = VEGET

AGE GROUP = CHILD

NUCLIDE	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
Y 91	6.57E-08	3.27E-04	2.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.95%	.00%	.00%	.00%	.00%	.00%	.00%
Y 92	9.60E-15	9.70E-09	3.36E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
Y 93	3.02E-12	1.64E-06	1.10E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
ZR 95	6.32E-07	7.40E-04	3.23E-06	7.10E-07	1.02E-06	0.00E+00	0.00E+00	0.00E+00
	.00%	2.14%	.00%	.00%	.00%	.00%	.00%	.00%
NB 95	7.21E-07	1.87E-03	2.59E-06	1.01E-06	9.48E-07	0.00E+00	0.00E+00	0.00E+00
	.00%	5.40%	.00%	.00%	.00%	.00%	.00%	.00%
MO 99	6.13E-05	2.05E-04	0.00E+00	2.48E-04	5.29E-04	0.00E+00	0.00E+00	0.00E+00
	.10%	.59%	.00%	.17%	1.01%	.00%	.00%	.00%
TC 99M	1.55E-11	5.33E-10	4.78E-13	9.37E-13	1.36E-11	0.00E+00	4.76E-13	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
RU103	1.44E-05	9.69E-04	3.75E-05	0.00E+00	9.43E-05	0.00E+00	0.00E+00	0.00E+00
	.02%	2.81%	.00%	.00%	.18%	.00%	.00%	.00%
RU106	4.08E-06	5.09E-04	3.27E-05	0.00E+00	4.42E-05	0.00E+00	0.00E+00	0.00E+00
	.00%	1.47%	.00%	.00%	.08%	.00%	.00%	.00%
AG110M	1.44E-08	2.14E-06	2.66E-08	1.80E-08	3.35E-08	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TE129M	2.62E-05	2.06E-04	1.69E-04	4.72E-05	4.96E-04	5.45E-05	0.00E+00	0.00E+00
	.04%	.60%	.01%	.03%	.95%	99.67%	.00%	.00%
SB124	1.21E-05	2.15E-04	3.45E-05	4.47E-07	0.00E+00	7.61E-08	1.91E-05	0.00E+00
	.02%	.62%	.00%	.00%	.00%	.14%	.12%	.00%
SB125	3.32E-06	3.79E-05	1.59E-05	1.22E-07	0.00E+00	1.47E-08	8.84E-06	0.00E+00
	.00%	.11%	.00%	.00%	.00%	.03%	.06%	.00%
TE131M	1.57E-08	5.97E-07	4.26E-08	1.47E-08	1.42E-07	3.03E-08	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.06%	.00%	.00%
TE132	5.06E-08	4.22E-07	9.46E-08	4.19E-08	3.89E-07	6.10E-08	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.11%	.00%	.00%
CS134	1.19E-02	3.05E-04	3.45E-02	5.66E-02	1.75E-02	0.00E+00	6.29E-03	0.00E+00
	19.16%	.88%	2.17%	38.15%	33.65%	.00%	40.18%	.00%
CS136	1.53E-04	8.31E-06	8.60E-05	2.36E-04	1.26E-04	0.00E+00	1.88E-05	0.00E+00

	.25%	.02%	.00%	.16%	.24%	.00%	.12%	.00%
CS137	1.17E-02	4.98E-04	8.30E-02	7.95E-02	2.59E-02	0.00E+00	9.32E-03	0.00E+00
	18.82%	1.44%	5.22%	53.57%	49.68%	.00%	59.48%	.00%
CS138	3.14E-24	2.28E-24	3.56E-24	4.95E-24	3.48E-24	0.00E+00	3.75E-25	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
BA140	7.84E-04	6.80E-03	1.34E-02	1.18E-05	3.83E-06	0.00E+00	7.01E-06	0.00E+00
	1.26%	19.70%	.84%	.00%	.00%	.00%	.04%	.00%
LA140	2.54E-10	2.10E-05	2.15E-09	7.53E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.06%	.00%	.00%	.00%	.00%	.00%	.00%
CE141	3.55E-07	2.98E-03	4.79E-06	2.39E-06	1.05E-06	0.00E+00	0.00E+00	0.00E+00
	.00%	8.63%	.00%	.00%	.00%	.00%	.00%	.00%
CE144	4.67E-08	7.15E-05	8.75E-07	2.74E-07	1.52E-07	0.00E+00	0.00E+00	0.00E+00
	.00%	.21%	.00%	.00%	.00%	.00%	.00%	.00%
PR144	1.29E-41	1.70E-37	2.56E-40	7.91E-41	4.18E-41	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
W 187	1.11E-09	3.48E-07	4.19E-09	2.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
NP239	7.02E-10	7.39E-05	1.39E-08	9.99E-10	2.89E-09	0.00E+00	0.00E+00	0.00E+00
	.00%	.21%	.00%	.00%	.00%	.00%	.00%	.00%
ZN 65	7.30E-03	2.06E-03	4.41E-03	1.17E-02	7.40E-03	0.00E+00	0.00E+00	0.00E+00
	11.71%	5.97%	.28%	7.91%	14.19%	.00%	.00%	.00%
RB 89	2.09E-40	2.05E-42	0.00E+00	2.35E-40	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 89	3.47E-03	4.70E-03	1.21E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	5.56%	13.61%	7.63%	.00%	.00%	.00%	.00%	.00%
SR 90	2.68E-02	1.19E-02	1.33E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	43.03%	34.54%	83.83%	.00%	.00%	.00%	.00%	.00%
Y 90	1.48E-11	1.57E-06	5.53E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 91	6.69E-09	3.92E-07	1.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 92	7.66E-12	3.62E-09	1.91E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TOTAL	6.23E-02	3.45E-02	1.59E+00	1.48E-01	5.21E-02	5.47E-05	1.57E-02	0.00E+00

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GGNS ESP Airborne Effluents
ANNUAL INDIVIDUAL DOSE (MREM) SUMMARY BY PATHWAY AND NUCLIDE
SPECIAL LOCATION NO. 3 Site Boundary
PATHWAY = INHAL

AGE GROUP = ADULT

NUCLIDE	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
Y 91	6.62E-07	2.05E-05	2.47E-05	0.00E+00	0.00E+00	0.00E+00	9.09E-05	0.00E+00
	.03%	.30%	.18%	.00%	.00%	.00%	.45%	.00%
Y 92	4.15E-11	1.01E-05	1.42E-09	0.00E+00	0.00E+00	0.00E+00	2.16E-06	0.00E+00
	.00%	.15%	.00%	.00%	.00%	.00%	.01%	.00%
Y 93	6.42E-10	1.04E-04	2.33E-08	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00
	.00%	1.52%	.00%	.00%	.00%	.00%	.06%	.00%
ZR 95	8.24E-06	5.32E-05	3.79E-05	1.22E-05	1.92E-05	0.00E+00	6.26E-04	0.00E+00
	.36%	.78%	.27%	.43%	1.73%	.00%	3.08%	.00%
NB 95	7.84E-06	1.94E-04	2.62E-05	1.46E-05	1.44E-05	0.00E+00	9.41E-04	0.00E+00
	.34%	2.84%	.19%	.52%	1.30%	.00%	4.63%	.00%
MO 99	3.03E-07	3.27E-03	0.00E+00	1.59E-06	3.84E-06	0.00E+00	1.20E-03	0.00E+00
	.01%	47.94%	.00%	.06%	.35%	.00%	5.93%	.00%
TC 99M	2.45E-12	2.75E-07	6.81E-14	1.92E-13	2.92E-12	0.00E+00	5.04E-08	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
RU103	5.14E-07	8.61E-05	1.19E-06	0.00E+00	4.55E-06	0.00E+00	3.94E-04	0.00E+00

	.02%	1.26%	.00%	.00%	.41%	.00%	1.94%	.00%
RU106	2.26E-07	2.37E-05	1.79E-06	0.00E+00	3.47E-06	0.00E+00	2.43E-04	0.00E+00
	.00%	.35%	.01%	.00%	.31%	.00%	1.20%	.00%
AG110M	2.64E-09	1.34E-07	4.79E-09	4.44E-09	8.73E-09	0.00E+00	2.06E-06	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.01%	.00%
TE129M	7.70E-08	1.86E-05	4.74E-07	2.27E-07	1.78E-06	1.67E-07	5.64E-05	0.00E+00
	.00%	.27%	.00%	.00%	.16%	96.62%	.28%	.00%
SB124	4.98E-07	1.63E-05	1.25E-06	2.36E-08	0.00E+00	3.03E-09	9.96E-05	0.00E+00
	.02%	.24%	.00%	.00%	.00%	1.75%	.49%	.00%
SB125	2.57E-07	2.05E-06	1.08E-06	1.21E-08	0.00E+00	1.10E-09	3.54E-05	0.00E+00
	.01%	.03%	.00%	.00%	.00%	.63%	.17%	.00%
TE131M	4.87E-10	9.31E-06	1.17E-09	7.30E-10	5.17E-09	9.22E-10	2.44E-06	0.00E+00
	.00%	.14%	.00%	.00%	.00%	.53%	.01%	.00%
TE132	6.78E-10	2.14E-06	1.09E-09	9.03E-10	6.11E-09	7.95E-10	1.21E-06	0.00E+00
	.00%	.03%	.00%	.00%	.00%	.46%	.00%	.00%
CS134	1.00E-03	1.43E-05	5.13E-04	1.17E-03	3.95E-04	0.00E+00	1.34E-04	0.00E+00
	43.40%	.21%	3.71%	41.59%	35.71%	.00%	.66%	.00%
CS136	1.46E-05	1.54E-06	5.15E-06	1.93E-05	1.13E-05	0.00E+00	1.58E-06	0.00E+00
	.63%	.02%	.04%	.69%	1.02%	.00%	.00%	.00%
CS137	8.97E-04	1.76E-05	1.00E-03	1.30E-03	4.66E-04	0.00E+00	1.58E-04	0.00E+00
	38.89%	.26%	7.25%	46.41%	42.15%	.00%	.78%	.00%
CS138	1.23E-08	7.05E-14	1.25E-08	2.35E-08	1.82E-08	0.00E+00	1.84E-09	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
BA140	1.54E-05	1.31E-03	2.34E-04	2.94E-07	1.00E-07	0.00E+00	7.64E-03	0.00E+00
	.67%	19.19%	1.69%	.01%	.00%	.00%	37.59%	.00%
LA140	1.84E-08	1.84E-04	1.38E-07	6.97E-08	0.00E+00	0.00E+00	5.46E-05	0.00E+00
	.00%	2.70%	.00%	.00%	.00%	.00%	.27%	.00%
CE141	3.12E-06	2.45E-04	4.07E-05	2.76E-05	1.28E-05	0.00E+00	7.38E-04	0.00E+00

	.14%	3.59%	.29%	.98%	1.16%	.00%	3.63%	.00%
CE144	7.72E-07	3.42E-06	1.44E-05	6.01E-06	3.56E-06	0.00E+00	3.26E-05	0.00E+00
	.03%	.05%	.10%	.21%	.32%	.00%	.16%	.00%
PR144	6.41E-15	9.03E-20	1.26E-13	5.23E-14	2.96E-14	0.00E+00	4.26E-09	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
W 187	1.04E-10	6.51E-06	3.56E-10	2.97E-10	0.00E+00	0.00E+00	1.22E-06	0.00E+00
	.00%	.10%	.00%	.00%	.00%	.00%	.00%	.00%
NP239	3.27E-08	3.15E-04	6.06E-07	5.37E-07	1.85E-07	0.00E+00	9.93E-05	0.00E+00
	.00%	4.61%	.00%	.02%	.02%	.00%	.49%	.00%
ZN 65	1.15E-04	1.32E-04	7.98E-05	2.54E-04	1.70E-04	0.00E+00	2.13E-03	0.00E+00
	4.97%	1.93%	.58%	9.06%	15.35%	.00%	10.48%	.00%
RB 89	1.63E-09	8.91E-23	0.00E+00	2.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 89	1.10E-05	4.42E-04	3.85E-04	0.00E+00	0.00E+00	0.00E+00	1.77E-03	0.00E+00
	.48%	6.47%	2.78%	.00%	.00%	.00%	8.72%	.00%
SR 90	2.30E-04	2.88E-04	1.15E-02	0.00E+00	0.00E+00	0.00E+00	3.83E-03	0.00E+00
	9.98%	4.22%	82.87%	.00%	.00%	.00%	18.88%	.00%
Y 90	5.72E-10	5.16E-06	2.13E-08	0.00E+00	0.00E+00	0.00E+00	1.73E-06	0.00E+00
	.00%	.08%	.00%	.00%	.00%	.00%	.00%	.00%
SR 91	5.56E-10	4.24E-05	1.37E-08	0.00E+00	0.00E+00	0.00E+00	8.09E-06	0.00E+00
	.00%	.62%	.00%	.00%	.00%	.00%	.04%	.00%
SR 92	5.07E-11	7.50E-06	1.17E-09	0.00E+00	0.00E+00	0.00E+00	2.87E-06	0.00E+00
	.00%	.11%	.00%	.00%	.00%	.00%	.01%	.00%
TOTAL	2.31E-03	6.83E-03	1.38E-02	2.81E-03	1.11E-03	1.73E-07	2.03E-02	0.00E+00

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GGNS ESP Airborne Effluents
ANNUAL INDIVIDUAL DOSE (MREM) SUMMARY BY PATHWAY AND NUCLIDE
SPECIAL LOCATION NO. 3 Site Boundary

PATHWAY = INHAL

AGE GROUP = TEEN

NUCLIDE	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
Y 91	9.44E-07	2.18E-05	3.53E-05	0.00E+00	0.00E+00	0.00E+00	1.57E-04	0.00E+00
	.05%	.30%	.21%	.00%	.00%	.00%	.48%	.00%
Y 92	5.90E-11	2.27E-05	2.03E-09	0.00E+00	0.00E+00	0.00E+00	3.69E-06	0.00E+00
	.00%	.31%	.00%	.00%	.00%	.00%	.01%	.00%
Y 93	9.16E-10	1.43E-04	3.33E-08	0.00E+00	0.00E+00	0.00E+00	2.05E-05	0.00E+00
	.00%	1.95%	.00%	.00%	.00%	.00%	.06%	.00%
ZR 95	1.12E-05	5.27E-05	5.15E-05	1.62E-05	2.38E-05	0.00E+00	9.51E-04	0.00E+00
	.58%	.72%	.31%	.43%	1.63%	.00%	2.90%	.00%
NB 95	1.06E-05	1.80E-04	3.46E-05	1.92E-05	1.86E-05	0.00E+00	1.40E-03	0.00E+00
	.55%	2.46%	.21%	.51%	1.27%	.00%	4.26%	.00%
MO 99	4.26E-07	3.55E-03	0.00E+00	2.23E-06	5.43E-06	0.00E+00	2.03E-03	0.00E+00
	.02%	48.47%	.00%	.06%	.37%	.00%	6.18%	.00%
TC 99M	3.30E-12	4.05E-07	9.14E-14	2.55E-13	3.80E-12	0.00E+00	7.60E-08	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
RU103	6.99E-07	8.49E-05	1.64E-06	0.00E+00	5.80E-06	0.00E+00	6.11E-04	0.00E+00
	.04%	1.16%	.00%	.00%	.40%	.00%	1.86%	.00%
RU106	3.22E-07	2.49E-05	2.55E-06	0.00E+00	4.94E-06	0.00E+00	4.17E-04	0.00E+00
	.02%	.34%	.02%	.00%	.34%	.00%	1.27%	.00%
AG110M	3.55E-09	1.21E-07	6.14E-09	5.82E-09	1.11E-08	0.00E+00	3.00E-06	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TE129M	1.09E-07	1.97E-05	6.76E-07	3.20E-07	2.52E-06	2.22E-07	9.60E-05	0.00E+00
	.00%	.27%	.00%	.00%	.17%	96.70%	.29%	.00%
SB124	6.75E-07	1.60E-05	1.73E-06	3.19E-08	0.00E+00	3.92E-09	1.55E-04	0.00E+00
	.04%	.22%	.01%	.00%	.00%	1.70%	.47%	.00%
SB125	3.49E-07	2.01E-06	1.50E-06	1.64E-08	0.00E+00	1.43E-09	5.56E-05	0.00E+00

	.02%	.03%	.00%	.00%	.00%	.62%	.17%	.00%
TE131M	6.74E-10	1.04E-05	1.65E-09	1.01E-09	7.36E-09	1.21E-09	3.98E-06	0.00E+00
	.00%	.14%	.00%	.00%	.00%	.53%	.01%	.00%
TE132	9.19E-10	1.94E-06	1.51E-09	1.22E-09	8.19E-09	1.03E-09	1.88E-06	0.00E+00
	.00%	.03%	.00%	.00%	.00%	.45%	.00%	.00%
CS134	7.55E-04	1.34E-05	6.91E-04	1.55E-03	5.16E-04	0.00E+00	2.01E-04	0.00E+00
	39.46%	.18%	4.19%	41.15%	35.21%	.00%	.61%	.00%
CS136	1.81E-05	1.44E-06	6.80E-06	2.56E-05	1.46E-05	0.00E+00	2.34E-06	0.00E+00
	.94%	.02%	.04%	.68%	.99%	.00%	.00%	.00%
CS137	6.53E-04	1.78E-05	1.41E-03	1.78E-03	6.37E-04	0.00E+00	2.53E-04	0.00E+00
	34.11%	.24%	8.51%	47.15%	43.49%	.00%	.77%	.00%
CS138	1.69E-08	1.02E-11	1.76E-08	3.24E-08	2.51E-08	0.00E+00	2.98E-09	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
BA140	2.11E-05	1.37E-03	3.28E-04	4.02E-07	1.37E-07	0.00E+00	1.22E-02	0.00E+00
	1.10%	18.75%	1.99%	.01%	.00%	.00%	37.14%	.00%
LA140	2.51E-08	1.96E-04	1.92E-07	9.48E-08	0.00E+00	0.00E+00	8.61E-05	0.00E+00
	.00%	2.67%	.00%	.00%	.00%	.00%	.26%	.00%
CE141	4.43E-06	2.58E-04	5.80E-05	3.87E-05	1.81E-05	0.00E+00	1.25E-03	0.00E+00
	.23%	3.52%	.35%	1.03%	1.24%	.00%	3.81%	.00%
CE144	1.10E-06	3.62E-06	2.05E-05	8.49E-06	5.07E-06	0.00E+00	5.60E-05	0.00E+00
	.06%	.05%	.12%	.23%	.35%	.00%	.17%	.00%
PR144	9.13E-15	9.86E-16	1.80E-13	7.38E-14	4.23E-14	0.00E+00	7.35E-09	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
W 187	1.44E-10	7.41E-06	5.03E-10	4.09E-10	0.00E+00	0.00E+00	1.99E-06	0.00E+00
	.00%	.10%	.00%	.00%	.00%	.00%	.00%	.00%
NP239	4.67E-08	3.49E-04	8.94E-07	7.60E-07	2.64E-07	0.00E+00	1.71E-04	0.00E+00
	.00%	4.76%	.00%	.02%	.02%	.00%	.52%	.00%
ZN 65	1.54E-04	1.15E-04	9.50E-05	3.29E-04	2.13E-04	0.00E+00	3.05E-03	0.00E+00

	8.03%	1.57%	.58%	8.73%	14.52%	.00%	9.30%	.00%
RB 89	2.23E-09	3.24E-18	0.00E+00	3.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 89	1.58E-05	4.70E-04	5.49E-04	0.00E+00	0.00E+00	0.00E+00	3.06E-03	0.00E+00
	.83%	6.41%	3.33%	.00%	.00%	.00%	9.31%	.00%
SR 90	2.66E-04	3.05E-04	1.32E-02	0.00E+00	0.00E+00	0.00E+00	6.58E-03	0.00E+00
	13.91%	4.17%	80.10%	.00%	.00%	.00%	20.04%	.00%
Y 90	8.16E-10	5.70E-06	3.04E-08	0.00E+00	0.00E+00	0.00E+00	2.99E-06	0.00E+00
	.00%	.08%	.00%	.00%	.00%	.00%	.00%	.00%
SR 91	7.79E-10	5.75E-05	1.95E-08	0.00E+00	0.00E+00	0.00E+00	1.35E-05	0.00E+00
	.00%	.79%	.00%	.00%	.00%	.00%	.04%	.00%
SR 92	7.08E-11	2.08E-05	1.66E-09	0.00E+00	0.00E+00	0.00E+00	4.78E-06	0.00E+00
	.00%	.28%	.00%	.00%	.00%	.00%	.01%	.00%
TOTAL	1.91E-03	7.32E-03	1.65E-02	3.77E-03	1.47E-03	2.30E-07	3.28E-02	0.00E+00

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GGNS ESP Airborne Effluents
ANNUAL INDIVIDUAL DOSE (MREM) SUMMARY BY PATHWAY AND NUCLIDE
SPECIAL LOCATION NO. 3 Site Boundary
PATHWAY = INHAL

AGE GROUP = CHILD

NUCLIDE	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
Y 91	1.30E-06	9.81E-06	4.88E-05	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00
	.11%	.28%	.25%	.00%	.00%	.00%	.49%	.00%
Y 92	7.99E-11	3.29E-05	2.80E-09	0.00E+00	0.00E+00	0.00E+00	3.29E-06	0.00E+00
	.00%	.95%	.00%	.00%	.00%	.00%	.01%	.00%
Y 93	1.26E-09	9.57E-05	4.59E-08	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00
	.00%	2.78%	.00%	.00%	.00%	.00%	.06%	.00%
ZR 95	1.31E-05	2.16E-05	6.72E-05	1.48E-05	2.11E-05	0.00E+00	7.90E-04	0.00E+00

	1.13%	.63%	.34%	.42%	1.61%	.00%	2.78%	.00%
NB 95	1.22E-05	6.90E-05	4.38E-05	1.71E-05	1.61E-05	0.00E+00	1.14E-03	0.00E+00
	1.05%	2.00%	.22%	.49%	1.22%	.00%	4.03%	.00%
MO 99	5.62E-07	1.67E-03	0.00E+00	2.28E-06	5.18E-06	0.00E+00	1.79E-03	0.00E+00
	.05%	48.49%	.00%	.06%	.39%	.00%	6.30%	.00%
TC 99M	3.81E-12	3.18E-07	1.17E-13	2.30E-13	3.35E-12	0.00E+00	6.28E-08	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
RU103	8.37E-07	3.49E-05	2.18E-06	0.00E+00	5.48E-06	0.00E+00	5.17E-04	0.00E+00
	.07%	1.01%	.01%	.00%	.42%	.00%	1.82%	.00%
RU106	4.39E-07	1.11E-05	3.54E-06	0.00E+00	4.77E-06	0.00E+00	3.72E-04	0.00E+00
	.04%	.32%	.02%	.00%	.36%	.00%	1.31%	.00%
AG110M	4.06E-09	4.45E-08	7.49E-09	5.06E-09	9.43E-09	0.00E+00	2.43E-06	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TE129M	1.48E-07	8.83E-06	9.33E-07	3.33E-07	2.45E-06	3.07E-07	8.56E-05	0.00E+00
	.01%	.26%	.00%	.00%	.19%	96.89%	.30%	.00%
SB124	8.04E-07	6.58E-06	2.30E-06	2.97E-08	0.00E+00	5.07E-09	1.30E-04	0.00E+00
	.07%	.19%	.01%	.00%	.00%	1.60%	.46%	.00%
SB125	4.20E-07	8.19E-07	2.00E-06	1.54E-08	0.00E+00	1.85E-09	4.71E-05	0.00E+00
	.04%	.02%	.01%	.00%	.00%	.58%	.17%	.00%
TE131M	8.49E-10	5.16E-06	2.25E-09	9.92E-10	6.69E-09	1.64E-09	3.45E-06	0.00E+00
	.00%	.15%	.00%	.00%	.00%	.52%	.01%	.00%
TE132	1.10E-09	5.77E-07	2.02E-09	1.14E-09	7.43E-09	1.33E-09	1.58E-06	0.00E+00
	.00%	.02%	.00%	.00%	.00%	.42%	.00%	.00%
CS134	3.09E-04	5.29E-06	8.96E-04	1.39E-03	4.55E-04	0.00E+00	1.66E-04	0.00E+00
	26.69%	.15%	4.53%	39.73%	34.62%	.00%	.59%	.00%
CS136	1.53E-05	5.52E-07	8.60E-06	2.26E-05	1.26E-05	0.00E+00	1.92E-06	0.00E+00
	1.32%	.02%	.04%	.64%	.96%	.00%	.00%	.00%
CS137	2.69E-04	7.59E-06	1.90E-03	1.73E-03	5.92E-04	0.00E+00	2.18E-04	0.00E+00

	23.25%	.22%	9.62%	49.28%	45.09%	.00%	.77%	.00%
CS138	2.10E-08	1.02E-08	2.39E-08	3.18E-08	2.35E-08	0.00E+00	2.58E-09	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
BA140	2.60E-05	6.11E-04	4.44E-04	3.89E-07	1.27E-07	0.00E+00	1.05E-02	0.00E+00
	2.24%	17.73%	2.25%	.01%	.00%	.00%	36.87%	.00%
LA140	3.03E-08	9.06E-05	2.59E-07	9.04E-08	0.00E+00	0.00E+00	7.34E-05	0.00E+00
	.00%	2.63%	.00%	.00%	.00%	.00%	.26%	.00%
CE141	5.91E-06	1.16E-04	8.01E-05	3.99E-05	1.74E-05	0.00E+00	1.11E-03	0.00E+00
	.51%	3.35%	.41%	1.14%	1.33%	.00%	3.91%	.00%
CE144	1.52E-06	1.63E-06	2.84E-05	8.88E-06	4.92E-06	0.00E+00	5.01E-05	0.00E+00
	.13%	.05%	.14%	.25%	.37%	.00%	.18%	.00%
PR144	1.26E-14	8.26E-10	2.50E-13	7.74E-14	4.10E-14	0.00E+00	6.56E-09	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
W 187	1.82E-10	3.82E-06	6.84E-10	4.05E-10	0.00E+00	0.00E+00	1.72E-06	0.00E+00
	.00%	.11%	.00%	.00%	.00%	.00%	.00%	.00%
NP239	6.20E-08	1.69E-04	1.23E-06	7.95E-07	2.57E-07	0.00E+00	1.53E-04	0.00E+00
	.00%	4.91%	.00%	.02%	.02%	.00%	.54%	.00%
ZN 65	1.73E-04	4.02E-05	1.05E-04	2.79E-04	1.76E-04	0.00E+00	2.45E-03	0.00E+00
	14.96%	1.17%	.53%	7.94%	13.40%	.00%	8.64%	.00%
RB 89	2.78E-09	1.81E-11	0.00E+00	3.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 89	2.18E-05	2.12E-04	7.58E-04	0.00E+00	0.00E+00	0.00E+00	2.73E-03	0.00E+00
	1.88%	6.14%	3.84%	.00%	.00%	.00%	9.62%	.00%
SR 90	3.06E-04	1.37E-04	1.54E-02	0.00E+00	0.00E+00	0.00E+00	5.90E-03	0.00E+00
	26.42%	3.98%	77.77%	.00%	.00%	.00%	20.78%	.00%
Y 90	1.13E-09	2.73E-06	4.19E-08	0.00E+00	0.00E+00	0.00E+00	2.67E-06	0.00E+00
	.00%	.08%	.00%	.00%	.00%	.00%	.00%	.00%
SR 91	1.02E-09	3.86E-05	2.69E-08	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00

	.00%	1.12%	.00%	.00%	.00%	.00%	.04%	.00%
SR 92	9.15E-11	4.22E-05	2.28E-09	0.00E+00	0.00E+00	0.00E+00	4.18E-06	0.00E+00
	.00%	1.23%	.00%	.00%	.00%	.00%	.01%	.00%
TOTAL	1.16E-03	3.45E-03	1.98E-02	3.51E-03	1.31E-03	3.17E-07	2.84E-02	0.00E+00

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GGNS ESP Airborne Effluents
ANNUAL INDIVIDUAL DOSE (MREM) SUMMARY BY PATHWAY AND NUCLIDE
SPECIAL LOCATION NO. 3 Site Boundary
PATHWAY = INHAL

AGE GROUP = INFANT

NUCLIDE	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
Y 91	8.37E-07	3.75E-06	3.14E-05	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00
	.18%	.26%	.35%	.00%	.00%	.00%	.54%	.00%
Y 92	6.34E-11	1.74E-05	2.25E-09	0.00E+00	0.00E+00	0.00E+00	3.37E-06	0.00E+00
	.00%	1.21%	.00%	.00%	.00%	.00%	.01%	.00%
Y 93	1.00E-09	4.10E-05	3.69E-08	0.00E+00	0.00E+00	0.00E+00	1.88E-05	0.00E+00
	.00%	2.84%	.00%	.00%	.00%	.00%	.08%	.00%
ZR 95	7.18E-06	7.68E-06	4.08E-05	9.86E-06	1.10E-05	0.00E+00	6.19E-04	0.00E+00
	1.56%	.53%	.45%	.40%	1.46%	.00%	2.56%	.00%
NB 95	7.05E-06	2.36E-05	2.92E-05	1.20E-05	8.79E-06	0.00E+00	8.92E-04	0.00E+00
	1.53%	1.63%	.33%	.48%	1.17%	.00%	3.68%	.00%
MO 99	4.27E-07	6.43E-04	0.00E+00	2.18E-06	3.49E-06	0.00E+00	1.78E-03	0.00E+00
	.09%	44.53%	.00%	.09%	.46%	.00%	7.34%	.00%
TC 99M	2.46E-12	1.34E-07	9.22E-14	1.90E-13	2.05E-12	0.00E+00	5.35E-08	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
RU103	5.30E-07	1.26E-05	1.57E-06	0.00E+00	3.31E-06	0.00E+00	4.30E-04	0.00E+00
	.12%	.87%	.02%	.00%	.44%	.00%	1.78%	.00%
RU106	2.82E-07	4.25E-06	2.25E-06	0.00E+00	2.77E-06	0.00E+00	3.00E-04	0.00E+00

	.06%	.29%	.03%	.00%	.37%	.00%	1.24%	.00%
AG110M	2.22E-09	1.47E-08	4.43E-09	3.21E-09	4.85E-09	0.00E+00	1.63E-06	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TE129M	1.08E-07	3.35E-06	6.87E-07	2.96E-07	1.54E-06	2.66E-07	8.16E-05	0.00E+00
	.02%	.23%	.00%	.01%	.20%	97.09%	.34%	.00%
SB124	4.81E-07	2.37E-06	1.52E-06	2.23E-08	0.00E+00	4.04E-09	1.06E-04	0.00E+00
	.10%	.16%	.02%	.00%	.00%	1.47%	.44%	.00%
SB125	2.21E-07	2.98E-07	1.05E-06	9.69E-09	0.00E+00	1.26E-09	3.33E-05	0.00E+00
	.05%	.02%	.01%	.00%	.00%	.46%	.14%	.00%
TE131M	6.07E-10	2.00E-06	1.79E-09	9.22E-10	4.43E-09	1.50E-09	3.33E-06	0.00E+00
	.00%	.14%	.00%	.00%	.00%	.55%	.01%	.00%
TE132	7.40E-10	1.85E-07	1.56E-09	9.92E-10	4.34E-09	1.17E-09	1.43E-06	0.00E+00
	.00%	.01%	.00%	.00%	.00%	.43%	.00%	.00%
CS134	1.02E-04	1.84E-06	5.45E-04	9.67E-04	2.62E-04	0.00E+00	1.10E-04	0.00E+00
	22.28%	.13%	6.07%	38.89%	34.71%	.00%	.45%	.00%
CS136	6.99E-06	1.89E-07	6.38E-06	1.78E-05	7.45E-06	0.00E+00	1.55E-06	0.00E+00
	1.52%	.01%	.07%	.71%	.99%	.00%	.00%	.00%
CS137	9.54E-05	2.80E-06	1.15E-03	1.28E-03	3.61E-04	0.00E+00	1.49E-04	0.00E+00
	20.74%	.19%	12.82%	51.60%	47.85%	.00%	.62%	.00%
CS138	1.50E-08	3.32E-08	1.91E-08	2.96E-08	1.55E-08	0.00E+00	2.47E-09	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
BA140	1.74E-05	2.30E-04	3.36E-04	3.36E-07	8.06E-08	0.00E+00	9.58E-03	0.00E+00
	3.78%	15.94%	3.74%	.01%	.01%	.00%	39.53%	.00%
LA140	2.07E-08	3.41E-05	2.03E-07	8.04E-08	0.00E+00	0.00E+00	6.75E-05	0.00E+00
	.00%	2.36%	.00%	.00%	.00%	.00%	.28%	.00%
CE141	4.06E-06	4.40E-05	5.66E-05	3.40E-05	1.07E-05	0.00E+00	1.05E-03	0.00E+00
	.88%	3.05%	.63%	1.37%	1.42%	.00%	4.35%	.00%
CE144	7.40E-07	6.22E-07	1.34E-05	5.08E-06	2.25E-06	0.00E+00	4.13E-05	0.00E+00

	.16%	.04%	.15%	.20%	.30%	.00%	.17%	.00%
PR144	1.01E-14	1.80E-08	2.01E-13	7.75E-14	2.82E-14	0.00E+00	6.75E-09	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
W 187	1.31E-10	1.49E-06	5.44E-10	3.78E-10	0.00E+00	0.00E+00	1.66E-06	0.00E+00
	.00%	.10%	.00%	.00%	.00%	.00%	.00%	.00%
NP239	4.95E-08	6.58E-05	9.80E-07	7.87E-07	1.75E-07	0.00E+00	1.57E-04	0.00E+00
	.01%	4.56%	.01%	.03%	.02%	.00%	.65%	.00%
ZN 65	7.66E-05	1.27E-04	4.76E-05	1.54E-04	8.00E-05	0.00E+00	1.59E-03	0.00E+00
	16.64%	8.76%	.53%	6.20%	10.60%	.00%	6.57%	.00%
RB 89	1.98E-09	6.54E-10	0.00E+00	3.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 89	1.44E-05	8.09E-05	5.03E-04	0.00E+00	0.00E+00	0.00E+00	2.57E-03	0.00E+00
	3.14%	5.60%	5.60%	.00%	.00%	.00%	10.59%	.00%
SR 90	1.25E-04	5.23E-05	6.21E-03	0.00E+00	0.00E+00	0.00E+00	4.49E-03	0.00E+00
	27.11%	3.62%	69.15%	.00%	.00%	.00%	18.53%	.00%
Y 90	8.99E-10	1.06E-06	3.35E-08	0.00E+00	0.00E+00	0.00E+00	2.74E-06	0.00E+00
	.00%	.07%	.00%	.00%	.00%	.00%	.01%	.00%
SR 91	7.67E-10	1.63E-05	2.12E-08	0.00E+00	0.00E+00	0.00E+00	1.17E-05	0.00E+00
	.00%	1.13%	.00%	.00%	.00%	.00%	.05%	.00%
SR 92	6.80E-11	2.44E-05	1.83E-09	0.00E+00	0.00E+00	0.00E+00	4.15E-06	0.00E+00
	.00%	1.69%	.00%	.00%	.00%	.00%	.02%	.00%
TOTAL	4.60E-04	1.44E-03	8.98E-03	2.49E-03	7.55E-04	2.74E-07	2.42E-02	0.00E+00

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GGNS ESP Airborne Effluents
ANNUAL INDIVIDUAL DOSE (MREM) SUMMARY BY PATHWAY AND NUCLIDE
SPECIAL LOCATION NO. 4 Nearest Milk Cow
PATHWAY = COW MILK

AGE GROUP = ADULT

NUCLIDE	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
Y 91	2.54E-13	5.23E-09	9.51E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
Y 92	2.16E-21	1.29E-15	7.39E-20	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
Y 93	2.64E-17	3.03E-11	9.55E-16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
ZR 95	1.50E-12	7.00E-09	6.89E-12	2.21E-12	3.47E-12	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
NB 95	9.92E-10	1.12E-05	3.32E-09	1.85E-09	1.82E-09	0.00E+00	0.00E+00	0.00E+00
	.00%	5.06%	.00%	.00%	.00%	.00%	.00%	.00%
MO 99	1.46E-06	1.78E-05	0.00E+00	7.67E-06	1.74E-05	0.00E+00	0.00E+00	0.00E+00
	.21%	8.03%	.00%	.74%	3.94%	.00%	.00%	.00%
TC 99M	1.09E-13	5.08E-12	3.04E-15	8.59E-15	1.30E-13	0.00E+00	4.21E-15	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
RU103	7.32E-12	1.98E-09	1.70E-11	0.00E+00	6.48E-11	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
RU106	1.33E-12	6.82E-10	1.05E-11	0.00E+00	2.04E-11	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
AG110M	2.92E-10	2.01E-07	5.32E-10	4.92E-10	9.67E-10	0.00E+00	0.00E+00	0.00E+00
	.00%	.09%	.00%	.00%	.00%	.00%	.00%	.00%
TE129M	1.07E-08	3.41E-07	6.78E-08	2.53E-08	2.83E-07	2.33E-08	0.00E+00	0.00E+00
	.00%	.15%	.00%	.00%	.06%	98.56%	.00%	.00%
SB124	8.49E-09	6.08E-07	2.14E-08	4.05E-10	0.00E+00	5.20E-11	1.67E-08	0.00E+00
	.00%	.27%	.00%	.00%	.00%	.22%	.02%	.00%
SB125	1.93E-09	8.91E-08	8.10E-09	9.05E-11	0.00E+00	8.23E-12	6.24E-09	0.00E+00
	.00%	.04%	.00%	.00%	.00%	.03%	.00%	.00%
TE131M	5.53E-11	6.59E-09	1.36E-10	6.64E-11	6.73E-10	1.05E-10	0.00E+00	0.00E+00

	.00%	.00%	.00%	.00%	.00%	.45%	.00%	.00%
TE132	1.48E-10	7.46E-09	2.44E-10	1.58E-10	1.52E-09	1.74E-10	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.74%	.00%	.00%
CS134	2.94E-04	6.30E-06	1.51E-04	3.60E-04	1.17E-04	0.00E+00	3.87E-05	0.00E+00
	42.29%	2.85%	14.69%	34.73%	26.45%	.00%	44.40%	.00%
CS136	2.30E-06	3.63E-07	8.08E-07	3.19E-06	1.78E-06	0.00E+00	2.43E-07	0.00E+00
	.33%	.16%	.08%	.31%	.40%	.00%	.28%	.00%
CS137	2.80E-04	8.27E-06	3.12E-04	4.27E-04	1.45E-04	0.00E+00	4.82E-05	0.00E+00
	40.18%	3.73%	30.30%	41.18%	32.89%	.00%	55.30%	.00%
CS138	1.46E-41	0.00E+00	1.50E-41	2.96E-41	2.17E-41	0.00E+00	2.15E-42	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
BA140	2.47E-07	7.76E-06	3.77E-06	4.73E-09	1.61E-09	0.00E+00	2.71E-09	0.00E+00
	.04%	3.50%	.37%	.00%	.00%	.00%	.00%	.00%
LA140	5.49E-15	1.52E-09	4.12E-14	2.08E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
CE141	1.64E-11	5.54E-07	2.14E-10	1.45E-10	6.73E-11	0.00E+00	0.00E+00	0.00E+00
	.00%	.25%	.00%	.00%	.00%	.00%	.00%	.00%
CE144	1.57E-12	9.90E-09	2.93E-11	1.22E-11	7.26E-12	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
W 187	1.72E-12	1.61E-09	5.89E-12	4.92E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
NP239	1.23E-14	4.56E-09	2.26E-13	2.22E-14	6.93E-14	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
ZN 65	1.08E-04	1.50E-04	7.51E-05	2.39E-04	1.60E-04	0.00E+00	0.00E+00	0.00E+00
	15.50%	67.95%	7.29%	23.04%	36.25%	.00%	.00%	.00%
SR 89	1.10E-06	6.17E-06	3.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.16%	2.79%	3.73%	.00%	.00%	.00%	.00%	.00%
SR 90	9.01E-06	1.13E-05	4.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

	1.29%	5.09%	43.53%	.00%	.00%	.00%	.00%	.00%
Y 90	4.54E-16	1.80E-10	1.69E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 91	4.41E-12	5.20E-10	1.09E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 92	2.54E-17	1.16E-14	5.88E-16	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TOTAL	6.96E-04	2.21E-04	1.03E-03	1.04E-03	4.41E-04	2.36E-08	8.71E-05	0.00E+00

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GGNS ESP Airborne Effluents
ANNUAL INDIVIDUAL DOSE (MREM) SUMMARY BY PATHWAY AND NUCLIDE
SPECIAL LOCATION NO. 4 Nearest Milk Cow
PATHWAY = COW MILK

AGE GROUP = TEEN

NUCLIDE	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
Y 91	4.69E-13	7.17E-09	1.75E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
Y 92	3.95E-21	3.74E-15	1.36E-19	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
Y 93	4.83E-17	5.38E-11	1.76E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
ZR 95	2.61E-12	8.77E-09	1.20E-11	3.80E-12	5.58E-12	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
NB 95	1.73E-09	1.34E-05	5.66E-09	3.14E-09	3.04E-09	0.00E+00	0.00E+00	0.00E+00
	.00%	5.10%	.00%	.00%	.00%	.00%	.00%	.00%
MO 99	2.64E-06	2.48E-05	0.00E+00	1.38E-05	3.17E-05	0.00E+00	0.00E+00	0.00E+00
	.35%	9.42%	.00%	.77%	4.26%	.00%	.00%	.00%
TC 99M	1.91E-13	9.65E-12	5.27E-15	1.47E-14	2.19E-13	0.00E+00	8.16E-15	0.00E+00

	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
RU103	1.29E-11	2.52E-09	3.02E-11	0.00E+00	1.07E-10	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
RU106	2.44E-12	9.30E-10	1.94E-11	0.00E+00	3.74E-11	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
AG110M	5.06E-10	2.34E-07	8.79E-10	8.32E-10	1.59E-09	0.00E+00	0.00E+00	0.00E+00
	.00%	.09%	.00%	.00%	.00%	.00%	.00%	.00%
TE129M	1.96E-08	4.66E-07	1.24E-07	4.60E-08	5.19E-07	4.00E-08	0.00E+00	0.00E+00
	.00%	.18%	.00%	.00%	.07%	98.60%	.00%	.00%
SB124	1.49E-08	7.70E-07	3.82E-08	7.04E-10	0.00E+00	8.67E-11	3.34E-08	0.00E+00
	.00%	.29%	.00%	.00%	.00%	.21%	.02%	.00%
SB125	3.39E-09	1.13E-07	1.45E-08	1.58E-10	0.00E+00	1.38E-11	1.27E-08	0.00E+00
	.00%	.04%	.00%	.00%	.00%	.03%	.00%	.00%
TE131M	9.88E-11	9.51E-09	2.47E-10	1.18E-10	1.24E-09	1.78E-10	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.44%	.00%	.00%
TE132	2.60E-10	8.74E-09	4.36E-10	2.76E-10	2.65E-09	2.91E-10	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.72%	.00%	.00%
CS134	2.87E-04	7.69E-06	2.63E-04	6.18E-04	1.97E-04	0.00E+00	7.50E-05	0.00E+00
	37.84%	2.92%	15.45%	34.53%	26.41%	.00%	42.84%	.00%
CS136	3.64E-06	4.36E-07	1.38E-06	5.42E-06	2.95E-06	0.00E+00	4.65E-07	0.00E+00
	.48%	.17%	.08%	.30%	.40%	.00%	.27%	.00%
CS137	2.62E-04	1.07E-05	5.66E-04	7.53E-04	2.56E-04	0.00E+00	9.96E-05	0.00E+00
	34.59%	4.07%	33.28%	42.05%	34.44%	.00%	56.86%	.00%
CS138	2.61E-41	2.38E-44	2.72E-41	5.21E-41	3.85E-41	0.00E+00	4.48E-42	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
BA140	4.38E-07	1.05E-05	6.80E-06	8.34E-09	2.83E-09	0.00E+00	5.60E-09	0.00E+00
	.06%	3.98%	.40%	.00%	.00%	.00%	.00%	.00%
LA140	9.67E-15	2.09E-09	7.40E-14	3.64E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00

	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
CE141	3.01E-11	7.50E-07	3.93E-10	2.62E-10	1.23E-10	0.00E+00	0.00E+00	0.00E+00
	.00%	.28%	.00%	.00%	.00%	.00%	.00%	.00%
CE144	2.90E-12	1.35E-08	5.39E-11	2.23E-11	1.33E-11	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
W 187	3.08E-12	2.38E-09	1.08E-11	8.78E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
NP239	2.26E-14	6.54E-09	4.31E-13	4.07E-14	1.28E-13	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
ZN 65	1.87E-04	1.69E-04	1.15E-04	4.00E-04	2.56E-04	0.00E+00	0.00E+00	0.00E+00
	24.62%	64.35%	6.78%	22.34%	34.42%	.00%	.00%	.00%
SR 89	2.03E-06	8.45E-06	7.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.27%	3.21%	4.17%	.00%	.00%	.00%	.00%	.00%
SR 90	1.36E-05	1.55E-05	6.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	1.79%	5.88%	39.84%	.00%	.00%	.00%	.00%	.00%
Y 90	8.38E-16	2.57E-10	3.11E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 91	7.97E-12	9.09E-10	2.00E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 92	4.59E-17	2.74E-14	1.08E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TOTAL	7.58E-04	2.63E-04	1.70E-03	1.79E-03	7.44E-04	4.06E-08	1.75E-04	0.00E+00

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GGNS ESP Airborne Effluents
ANNUAL INDIVIDUAL DOSE (MREM) SUMMARY BY PATHWAY AND NUCLIDE
SPECIAL LOCATION NO. 4 Nearest Milk Cow
PATHWAY = COW MILK

AGE GROUP = CHILD

NUCLIDE	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
Y 91	1.16E-12	5.76E-09	4.32E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
Y 92	9.58E-21	9.68E-15	3.35E-19	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
Y 93	1.19E-16	6.45E-11	4.32E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
ZR 95	5.47E-12	6.41E-09	2.80E-11	6.15E-12	8.80E-12	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
NB 95	3.55E-09	9.20E-06	1.28E-08	4.97E-09	4.67E-09	0.00E+00	0.00E+00	0.00E+00
	.00%	5.13%	.00%	.00%	.00%	.00%	.00%	.00%
MO 99	6.23E-06	2.08E-05	0.00E+00	2.52E-05	5.38E-05	0.00E+00	0.00E+00	0.00E+00
	.76%	11.63%	.00%	.86%	4.59%	.00%	.00%	.00%
TC 99M	3.93E-13	1.35E-11	1.21E-14	2.37E-14	3.45E-13	0.00E+00	1.20E-14	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
RU103	2.75E-11	1.85E-09	7.15E-11	0.00E+00	1.80E-10	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
RU106	5.96E-12	7.43E-10	4.77E-11	0.00E+00	6.45E-11	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
AG110M	1.03E-09	1.53E-07	1.91E-09	1.29E-09	2.40E-09	0.00E+00	0.00E+00	0.00E+00
	.00%	.09%	.00%	.00%	.00%	.00%	.00%	.00%
TE129M	4.75E-08	3.73E-07	3.06E-07	8.54E-08	8.98E-07	9.86E-08	0.00E+00	0.00E+00
	.00%	.21%	.00%	.00%	.08%	98.67%	.00%	.00%
SB124	3.17E-08	5.65E-07	9.04E-08	1.17E-09	0.00E+00	2.00E-10	5.02E-08	0.00E+00
	.00%	.32%	.00%	.00%	.00%	.20%	.02%	.00%
SB125	7.22E-09	8.24E-08	3.45E-08	2.66E-10	0.00E+00	3.19E-11	1.92E-08	0.00E+00
	.00%	.05%	.00%	.00%	.00%	.03%	.00%	.00%
TE131M	2.21E-10	8.44E-09	6.02E-10	2.08E-10	2.01E-09	4.28E-10	0.00E+00	0.00E+00

	.00%	.00%	.00%	.00%	.00%	.43%	.00%	.00%
TE132	5.56E-10	4.64E-09	1.04E-09	4.60E-10	4.28E-09	6.71E-10	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.67%	.00%	.00%
CS134	2.10E-04	5.36E-06	6.06E-04	9.95E-04	3.08E-04	0.00E+00	1.11E-04	0.00E+00
	25.48%	2.99%	15.97%	33.87%	26.29%	.00%	41.83%	.00%
CS136	5.53E-06	3.00E-07	3.11E-06	8.54E-06	4.55E-06	0.00E+00	6.78E-07	0.00E+00
	.67%	.17%	.08%	.29%	.39%	.00%	.26%	.00%
CS137	1.93E-04	8.17E-06	1.36E-03	1.31E-03	4.25E-04	0.00E+00	1.53E-04	0.00E+00
	23.40%	4.56%	35.94%	44.45%	36.28%	.00%	57.88%	.00%
CS138	5.80E-41	4.22E-41	6.58E-41	9.15E-41	6.44E-41	0.00E+00	6.93E-42	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
BA140	9.58E-07	8.32E-06	1.64E-05	1.44E-08	4.68E-09	0.00E+00	8.58E-09	0.00E+00
	.12%	4.64%	.43%	.00%	.00%	.00%	.00%	.00%
LA140	2.09E-14	1.73E-09	1.77E-13	6.19E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
CE141	7.16E-11	6.02E-07	9.67E-10	4.82E-10	2.12E-10	0.00E+00	0.00E+00	0.00E+00
	.00%	.34%	.00%	.00%	.00%	.00%	.00%	.00%
CE144	7.09E-12	1.09E-08	1.33E-10	4.16E-11	2.31E-11	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
W 187	6.94E-12	2.17E-09	2.61E-11	1.55E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
NP239	5.36E-14	5.64E-09	1.06E-12	7.62E-14	2.20E-13	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
ZN 65	3.75E-04	1.06E-04	2.26E-04	6.03E-04	3.80E-04	0.00E+00	0.00E+00	0.00E+00
	45.52%	59.06%	5.96%	20.52%	32.38%	.00%	.00%	.00%
SR 89	5.01E-06	6.79E-06	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.61%	3.79%	4.63%	.00%	.00%	.00%	.00%	.00%
SR 90	2.82E-05	1.26E-05	1.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

	3.43%	7.01%	36.98%	.00%	.00%	.00%	.00%	.00%
Y 90	2.06E-15	2.19E-10	7.70E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 91	1.86E-11	1.09E-09	4.92E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 92	1.05E-16	4.98E-14	2.63E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TOTAL	8.23E-04	1.79E-04	3.79E-03	2.94E-03	1.17E-03	9.99E-08	2.64E-04	0.00E+00

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GGNS ESP Airborne Effluents
ANNUAL INDIVIDUAL DOSE (MREM) SUMMARY BY PATHWAY AND NUCLIDE
SPECIAL LOCATION NO. 4 Nearest Milk Cow
PATHWAY = COW MILK

AGE GROUP = INFANT

NUCLIDE	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
Y 91	2.16E-12	5.81E-09	8.11E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
Y 92	2.00E-20	1.36E-14	7.12E-19	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
Y 93	2.51E-16	7.28E-11	9.22E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
ZR 95	8.58E-12	6.03E-09	4.97E-11	1.21E-11	1.30E-11	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
NB 95	5.68E-09	8.29E-06	2.38E-08	9.82E-09	7.04E-09	0.00E+00	0.00E+00	0.00E+00
	.00%	.87%	.00%	.00%	.00%	.00%	.00%	.00%
MO 99	1.26E-05	2.12E-05	0.00E+00	6.44E-05	9.62E-05	0.00E+00	0.00E+00	0.00E+00
	1.38%	2.23%	.00%	1.17%	5.46%	.00%	.00%	.00%
TC 99M	6.68E-13	1.51E-11	2.52E-14	5.19E-14	5.58E-13	0.00E+00	2.71E-14	0.00E+00

	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
RU103	4.84E-11	1.76E-09	1.45E-10	0.00E+00	3.01E-10	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
RU106	1.23E-11	7.47E-10	9.83E-11	0.00E+00	1.16E-10	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
AG110M	1.70E-09	1.33E-07	3.52E-09	2.57E-09	3.68E-09	0.00E+00	0.00E+00	0.00E+00
	.00%	.01%	.00%	.00%	.00%	.00%	.00%	.00%
TE129M	9.67E-08	3.75E-07	6.28E-07	2.15E-07	1.57E-06	2.41E-07	0.00E+00	0.00E+00
	.01%	.04%	.01%	.00%	.09%	98.71%	.00%	.00%
SB124	5.40E-08	5.38E-07	1.74E-07	2.57E-09	0.00E+00	4.63E-10	1.09E-07	0.00E+00
	.00%	.06%	.00%	.00%	.00%	.19%	.02%	.00%
SB125	1.22E-08	7.90E-08	5.92E-08	5.73E-10	0.00E+00	7.42E-11	3.43E-08	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.03%	.00%	.00%
TE131M	4.22E-10	8.61E-09	1.27E-09	5.11E-10	3.52E-09	1.04E-09	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.42%	.00%	.00%
TE132	9.90E-10	3.92E-09	2.14E-09	1.06E-09	6.63E-09	1.57E-09	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.64%	.00%	.00%
CS134	1.84E-04	4.95E-06	9.76E-04	1.82E-03	4.69E-04	0.00E+00	1.92E-04	0.00E+00
	20.27%	.52%	18.14%	33.15%	26.59%	.00%	40.83%	.00%
CS136	6.66E-06	2.71E-07	6.07E-06	1.78E-05	7.11E-06	0.00E+00	1.45E-06	0.00E+00
	.73%	.03%	.11%	.32%	.40%	.00%	.31%	.00%
CS137	1.81E-04	7.96E-06	2.18E-03	2.55E-03	6.84E-04	0.00E+00	2.77E-04	0.00E+00
	19.91%	.84%	40.44%	46.39%	38.80%	.00%	58.83%	.00%
CS138	1.09E-40	3.61E-40	1.39E-40	2.26E-40	1.13E-40	0.00E+00	1.76E-41	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
BA140	1.74E-06	8.30E-06	3.38E-05	3.38E-08	8.02E-09	0.00E+00	2.07E-08	0.00E+00
	.19%	.87%	.63%	.00%	.00%	.00%	.00%	.00%
LA140	3.75E-14	1.71E-09	3.70E-13	1.46E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00

	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
CE141	1.38E-10	6.04E-07	1.92E-09	1.17E-09	3.61E-10	0.00E+00	0.00E+00	0.00E+00
	.00%	.06%	.00%	.00%	.00%	.00%	.00%	.00%
CE144	1.07E-11	1.09E-08	1.90E-10	7.79E-11	3.15E-11	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
W 187	1.32E-11	2.25E-09	5.50E-11	3.82E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
NP239	1.13E-13	5.80E-09	2.24E-12	2.01E-13	4.00E-13	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
ZN 65	4.80E-04	8.80E-04	3.04E-04	1.04E-03	5.05E-04	0.00E+00	0.00E+00	0.00E+00
	52.96%	92.41%	5.64%	18.96%	28.66%	.00%	.00%	.00%
SR 89	9.57E-06	6.86E-06	3.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	1.06%	.72%	6.20%	.00%	.00%	.00%	.00%	.00%
SR 90	3.15E-05	1.27E-05	1.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	3.47%	1.33%	28.82%	.00%	.00%	.00%	.00%	.00%
Y 90	4.37E-15	2.25E-10	1.63E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 91	3.71E-11	1.21E-09	1.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 92	2.08E-16	6.02E-14	5.59E-15	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TOTAL	9.07E-04	9.52E-04	5.38E-03	5.49E-03	1.76E-03	2.44E-07	4.71E-04	0.00E+00

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GGNS ESP Airborne Effluents
ANNUAL INDIVIDUAL DOSE (MREM) SUMMARY BY PATHWAY AND NUCLIDE
SPECIAL LOCATION NO. 5 Nearest Meat Cow
PATHWAY = MEAT

AGE GROUP = ADULT

NUCLIDE	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
Y 91	1.56E-10	3.21E-06	5.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.10%	.00%	.00%	.00%	.00%	.00%	.00%
Y 93	3.01E-27	3.45E-21	1.09E-25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
ZR 95	1.38E-08	6.46E-05	6.36E-08	2.04E-08	3.20E-08	0.00E+00	0.00E+00	0.00E+00
	.00%	2.02%	.00%	.00%	.00%	.00%	.00%	.00%
NB 95	1.29E-07	1.45E-03	4.30E-07	2.39E-07	2.36E-07	0.00E+00	0.00E+00	0.00E+00
	.03%	45.43%	.04%	.03%	.06%	.00%	.00%	.00%
MO 99	2.81E-08	3.42E-07	0.00E+00	1.48E-07	3.34E-07	0.00E+00	0.00E+00	0.00E+00
	.00%	.01%	.00%	.02%	.08%	.00%	.00%	.00%
TC 99M	9.49E-34	4.41E-32	2.64E-35	7.45E-35	1.13E-33	0.00E+00	3.65E-35	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
RU103	3.52E-06	9.53E-04	8.16E-06	0.00E+00	3.12E-05	0.00E+00	0.00E+00	0.00E+00
	.76%	29.83%	.84%	.00%	7.70%	.00%	.00%	.00%
RU106	8.49E-07	4.34E-04	6.71E-06	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00
	.18%	13.59%	.69%	.00%	3.20%	.00%	.00%	.00%
AG110M	1.56E-10	1.07E-07	2.83E-10	2.62E-10	5.15E-10	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TE129M	9.40E-07	2.99E-05	5.94E-06	2.22E-06	2.48E-05	2.04E-06	0.00E+00	0.00E+00
	.20%	.94%	.61%	.31%	6.13%	99.96%	.00%	.00%
SB124	3.04E-08	2.17E-06	7.66E-08	1.45E-09	0.00E+00	1.86E-10	5.96E-08	0.00E+00
	.00%	.07%	.00%	.00%	.00%	.00%	.13%	.00%
SB125	8.36E-09	3.87E-07	3.51E-08	3.92E-10	0.00E+00	3.57E-11	2.71E-08	0.00E+00
	.00%	.01%	.00%	.00%	.00%	.00%	.06%	.00%
TE131M	3.44E-13	4.09E-11	8.43E-13	4.12E-13	4.18E-12	6.53E-13	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TE132	4.19E-10	2.11E-08	6.90E-10	4.46E-10	4.30E-09	4.93E-10	0.00E+00	0.00E+00

	.00%	.00%	.00%	.00%	.00%	.02%	.00%	.00%
CS134	1.59E-04	3.40E-06	8.17E-05	1.94E-04	6.29E-05	0.00E+00	2.09E-05	0.00E+00
	34.43%	.11%	8.39%	27.02%	15.55%	.00%	44.01%	.00%
CS136	4.90E-07	7.73E-08	1.72E-07	6.80E-07	3.78E-07	0.00E+00	5.19E-08	0.00E+00
	.11%	.00%	.02%	.09%	.09%	.00%	.11%	.00%
CS137	1.53E-04	4.53E-06	1.71E-04	2.34E-04	7.95E-05	0.00E+00	2.64E-05	0.00E+00
	33.22%	.14%	17.57%	32.54%	19.64%	.00%	55.67%	.00%
BA140	1.23E-06	3.88E-05	1.88E-05	2.37E-08	8.04E-09	0.00E+00	1.35E-08	0.00E+00
	.27%	1.21%	1.93%	.00%	.00%	.00%	.03%	.00%
LA140	2.23E-16	6.20E-11	1.68E-15	8.45E-16	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
CE141	2.22E-10	7.47E-06	2.89E-09	1.95E-09	9.08E-10	0.00E+00	0.00E+00	0.00E+00
	.00%	.23%	.00%	.00%	.00%	.00%	.00%	.00%
CE144	2.97E-11	1.87E-07	5.54E-10	2.32E-10	1.37E-10	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
W 187	2.91E-17	2.72E-14	9.94E-17	8.31E-17	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
NP239	4.21E-15	1.57E-09	7.77E-14	7.64E-15	2.38E-14	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
ZN 65	1.30E-04	1.81E-04	9.03E-05	2.87E-04	1.92E-04	0.00E+00	0.00E+00	0.00E+00
	28.15%	5.67%	9.28%	39.97%	47.53%	.00%	.00%	.00%
SR 89	1.07E-06	5.96E-06	3.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.23%	.19%	3.81%	.00%	.00%	.00%	.00%	.00%
SR 90	1.11E-05	1.39E-05	5.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	2.41%	.44%	56.80%	.00%	.00%	.00%	.00%	.00%
Y 90	3.33E-15	1.32E-09	1.24E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 91	1.28E-25	1.51E-23	3.18E-24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TOTAL	4.62E-04	3.20E-03	9.74E-04	7.19E-04	4.05E-04	2.04E-06	4.74E-05	0.00E+00

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GGNS ESP Airborne Effluents
ANNUAL INDIVIDUAL DOSE (MREM) SUMMARY BY PATHWAY AND NUCLIDE
SPECIAL LOCATION NO. 5 Nearest Meat Cow
PATHWAY = MEAT

AGE GROUP = TEEN

NUCLIDE	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
Y 91	1.32E-10	2.01E-06	4.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.11%	.00%	.00%	.00%	.00%	.00%	.00%
Y 93	2.52E-27	2.81E-21	9.20E-26	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
ZR 95	1.10E-08	3.71E-05	5.09E-08	1.61E-08	2.36E-08	0.00E+00	0.00E+00	0.00E+00
	.00%	2.03%	.00%	.00%	.00%	.00%	.00%	.00%
NB 95	1.03E-07	7.97E-04	3.36E-07	1.86E-07	1.81E-07	0.00E+00	0.00E+00	0.00E+00
	.04%	43.72%	.05%	.03%	.06%	.00%	.00%	.00%
MO 99	2.33E-08	2.19E-07	0.00E+00	1.22E-07	2.79E-07	0.00E+00	0.00E+00	0.00E+00
	.00%	.01%	.00%	.02%	.09%	.00%	.00%	.00%
TC 99M	7.57E-34	3.84E-32	2.09E-35	5.84E-35	8.71E-34	0.00E+00	3.24E-35	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
RU103	2.84E-06	5.55E-04	6.65E-06	0.00E+00	2.34E-05	0.00E+00	0.00E+00	0.00E+00
	1.12%	30.48%	.93%	.00%	7.56%	.00%	.00%	.00%
RU106	7.12E-07	2.71E-04	5.65E-06	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00
	.28%	14.88%	.79%	.00%	3.52%	.00%	.00%	.00%
AG110M	1.23E-10	5.70E-08	2.14E-10	2.03E-10	3.87E-10	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TE129M	7.88E-07	1.87E-05	4.98E-06	1.85E-06	2.08E-05	1.61E-06	0.00E+00	0.00E+00

	.31%	1.03%	.69%	.33%	6.72%	99.97%	.00%	.00%
SB124	2.44E-08	1.26E-06	6.25E-08	1.15E-09	0.00E+00	1.42E-10	5.46E-08	0.00E+00
	.00%	.07%	.00%	.00%	.00%	.00%	.13%	.00%
SB125	6.72E-09	2.24E-07	2.88E-08	3.14E-10	0.00E+00	2.75E-11	2.53E-08	0.00E+00
	.00%	.01%	.00%	.00%	.00%	.00%	.06%	.00%
TE131M	2.81E-13	2.70E-11	7.03E-13	3.37E-13	3.51E-12	5.07E-13	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TE132	3.36E-10	1.13E-08	5.64E-10	3.57E-10	3.43E-09	3.77E-10	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.02%	.00%	.00%
CS134	7.09E-05	1.90E-06	6.50E-05	1.53E-04	4.86E-05	0.00E+00	1.85E-05	0.00E+00
	27.91%	.10%	9.04%	27.05%	15.67%	.00%	42.46%	.00%
CS136	3.55E-07	4.25E-08	1.34E-07	5.29E-07	2.88E-07	0.00E+00	4.53E-08	0.00E+00
	.14%	.00%	.02%	.09%	.09%	.00%	.10%	.00%
CS137	6.59E-05	2.69E-06	1.42E-04	1.89E-04	6.43E-05	0.00E+00	2.50E-05	0.00E+00
	25.92%	.15%	19.79%	33.45%	20.75%	.00%	57.22%	.00%
BA140	1.00E-06	2.40E-05	1.56E-05	1.91E-08	6.47E-09	0.00E+00	1.28E-08	0.00E+00
	.39%	1.32%	2.17%	.00%	.00%	.00%	.03%	.00%
LA140	1.80E-16	3.89E-11	1.38E-15	6.78E-16	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
CE141	1.86E-10	4.63E-06	2.43E-09	1.62E-09	7.63E-10	0.00E+00	0.00E+00	0.00E+00
	.00%	.25%	.00%	.00%	.00%	.00%	.00%	.00%
CE144	2.51E-11	1.17E-07	4.67E-10	1.93E-10	1.15E-10	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
W 187	2.38E-17	1.84E-14	8.33E-17	6.79E-17	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
NP239	3.56E-15	1.03E-09	6.79E-14	6.40E-15	2.01E-14	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
ZN 65	1.03E-04	9.34E-05	6.35E-05	2.21E-04	1.41E-04	0.00E+00	0.00E+00	0.00E+00

	40.50%	5.13%	8.85%	39.03%	45.54%	.00%	.00%	.00%
SR 89	8.98E-07	3.74E-06	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.35%	.20%	4.37%	.00%	.00%	.00%	.00%	.00%
SR 90	7.66E-06	8.74E-06	3.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	3.01%	.48%	53.30%	.00%	.00%	.00%	.00%	.00%
Y 90	2.82E-15	8.62E-10	1.05E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 91	1.06E-25	1.21E-23	2.67E-24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TOTAL	2.54E-04	1.82E-03	7.18E-04	5.65E-04	3.10E-04	1.61E-06	4.37E-05	0.00E+00

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GGNS ESP Airborne Effluents
ANNUAL INDIVIDUAL DOSE (MREM) SUMMARY BY PATHWAY AND NUCLIDE
SPECIAL LOCATION NO. 5 Nearest Meat Cow
PATHWAY = MEAT

AGE GROUP = CHILD

NUCLIDE	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
Y 91	2.48E-10	1.24E-06	9.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.12%	.00%	.00%	.00%	.00%	.00%	.00%
Y 93	4.74E-27	2.57E-21	1.73E-25	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
ZR 95	1.77E-08	2.07E-05	9.04E-08	1.99E-08	2.84E-08	0.00E+00	0.00E+00	0.00E+00
	.00%	2.07%	.00%	.00%	.00%	.00%	.00%	.00%
NB 95	1.61E-07	4.17E-04	5.80E-07	2.26E-07	2.12E-07	0.00E+00	0.00E+00	0.00E+00
	.06%	41.72%	.05%	.03%	.06%	.00%	.00%	.00%
MO 99	4.20E-08	1.40E-07	0.00E+00	1.70E-07	3.63E-07	0.00E+00	0.00E+00	0.00E+00
	.02%	.01%	.00%	.02%	.10%	.00%	.00%	.00%
TC 99M	1.19E-33	4.10E-32	3.67E-35	7.20E-35	1.05E-33	0.00E+00	3.66E-35	0.00E+00

	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
RU103	4.62E-06	3.11E-04	1.20E-05	0.00E+00	3.03E-05	0.00E+00	0.00E+00	0.00E+00
	1.79%	31.06%	1.00%	.00%	8.11%	.00%	.00%	.00%
RU106	1.33E-06	1.66E-04	1.06E-05	0.00E+00	1.44E-05	0.00E+00	0.00E+00	0.00E+00
	.51%	16.55%	.89%	.00%	3.85%	.00%	.00%	.00%
AG110M	1.92E-10	2.86E-08	3.56E-10	2.40E-10	4.47E-10	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TE129M	1.46E-06	1.14E-05	9.38E-06	2.62E-06	2.75E-05	3.02E-06	0.00E+00	0.00E+00
	.56%	1.14%	.78%	.38%	7.38%	99.97%	.00%	.00%
SB124	3.97E-08	7.07E-07	1.13E-07	1.47E-09	0.00E+00	2.50E-10	6.28E-08	0.00E+00
	.02%	.07%	.00%	.00%	.00%	.00%	.12%	.00%
SB125	1.10E-08	1.25E-07	5.24E-08	4.04E-10	0.00E+00	4.85E-11	2.92E-08	0.00E+00
	.00%	.01%	.00%	.00%	.00%	.00%	.06%	.00%
TE131M	4.82E-13	1.84E-11	1.31E-12	4.52E-13	4.38E-12	9.30E-13	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TE132	5.51E-10	4.59E-09	1.03E-09	4.56E-10	4.23E-09	6.64E-10	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.02%	.00%	.00%
CS134	3.96E-05	1.01E-06	1.15E-04	1.88E-04	5.83E-05	0.00E+00	2.09E-05	0.00E+00
	15.36%	.10%	9.56%	27.00%	15.61%	.00%	41.44%	.00%
CS136	4.12E-07	2.24E-08	2.32E-07	6.37E-07	3.39E-07	0.00E+00	5.06E-08	0.00E+00
	.16%	.00%	.02%	.09%	.09%	.00%	.10%	.00%
CS137	3.70E-05	1.57E-06	2.62E-04	2.51E-04	8.16E-05	0.00E+00	2.94E-05	0.00E+00
	14.32%	.16%	21.83%	35.99%	21.88%	.00%	58.24%	.00%
BA140	1.68E-06	1.46E-05	2.87E-05	2.52E-08	8.19E-09	0.00E+00	1.50E-08	0.00E+00
	.65%	1.45%	2.40%	.00%	.00%	.00%	.03%	.00%
LA140	2.97E-16	2.46E-11	2.52E-15	8.82E-16	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
CE141	3.38E-10	2.84E-06	4.57E-09	2.28E-09	9.99E-10	0.00E+00	0.00E+00	0.00E+00

	.00%	.28%	.00%	.00%	.00%	.00%	.00%	.00%
CE144	4.70E-11	7.19E-08	8.80E-10	2.76E-10	1.53E-10	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
W 187	4.10E-17	1.28E-14	1.54E-16	9.14E-17	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
NP239	6.45E-15	6.79E-10	1.28E-13	9.17E-15	2.65E-14	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
ZN 65	1.58E-04	4.46E-05	9.53E-05	2.54E-04	1.60E-04	0.00E+00	0.00E+00	0.00E+00
	61.16%	4.46%	7.95%	36.48%	42.90%	.00%	.00%	.00%
SR 89	1.70E-06	2.30E-06	5.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.66%	.23%	4.95%	.00%	.00%	.00%	.00%	.00%
SR 90	1.22E-05	5.42E-06	6.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	4.72%	.54%	50.55%	.00%	.00%	.00%	.00%	.00%
Y 90	5.29E-15	5.63E-10	1.98E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 91	1.89E-25	1.11E-23	5.01E-24	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
TOTAL	2.58E-04	1.00E-03	1.20E-03	6.96E-04	3.73E-04	3.02E-06	5.04E-05	0.00E+00

1GGNS ESP Airborne Effluents
COST BENEFIT TABLES (NUCLIDE RELEASE, T.BODY AND THYROID - PERSON-REM)
0 Composite Plant Particulate 2

NUCLIDE	CI/YR	T.BODY	THYROID
Y 91	4.81E-04	7.32E-07	5.55E-08
Y 92	1.24E-03	4.93E-09	4.93E-09
Y 93	2.22E-03	2.22E-08	2.19E-08

Composite Plant Particulate 3

NUCLIDE	CI/YR	T.BODY	THYROID
LA140	3.62E-03	6.22E-06	6.21E-06
CE141	1.84E-02	3.00E-05	2.69E-05
CE144	3.78E-05	1.08E-06	2.84E-07

ZR 95	3.19E-03	9.21E-05	8.41E-05
NB 95	1.68E-02	2.55E-04	2.47E-04
MO 99	1.19E-01	6.24E-05	4.55E-05
TC 99M	5.95E-04	4.07E-09	4.07E-09
RU103	7.03E-03	1.13E-04	8.15E-05
RU106	2.34E-04	1.90E-05	1.07E-05
AG110M	4.00E-06	1.50E-06	1.49E-06
TE129M	4.38E-04	1.03E-05	2.10E-05
SB124	3.62E-04	2.46E-05	2.33E-05
SB125	1.83E-04	4.75E-05	4.70E-05
TE131M	1.51E-04	1.02E-07	1.03E-07
TE132	3.78E-05	2.13E-08	2.23E-08
CS134	1.24E-02	1.60E-02	9.20E-03
CS136	1.19E-03	6.76E-05	1.88E-05
CS137	1.89E-02	3.32E-02	2.66E-02
CS138	3.41E-04	2.00E-10	1.44E-10
BA140	5.41E-02	1.50E-04	1.17E-04
PR144	3.78E-05	2.79E-14	2.79E-14
W 187	3.78E-04	7.03E-08	7.03E-08
NP239	2.38E-02	3.86E-06	3.84E-06
ZN 65	2.22E-02	5.39E-03	1.79E-03
RB 89	8.65E-05	5.19E-12	3.32E-12
SR 89	1.14E-02	1.34E-04	2.64E-08
SR 90	3.60E-03	2.06E-03	0.00E+00
Y 90	9.19E-05	5.43E-10	3.95E-11
SR 91	2.00E-03	2.23E-07	2.23E-07
SR 92	1.57E-03	1.92E-08	1.92E-08

SUBTOTALS	CI/YR	T.BODY	THYROID

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+
 NOBLE  I 0.00E+00 I 0.00E+00 I 0.00E+00 I
+
 IODINE I 0.00E+00 I 0.00E+00 I 0.00E+00 I
+
 PART.  I 2.39E-01 I 5.01E-02 I 3.65E-02 I
+
 C-14   I 0.00E+00 I 0.00E+00 I 0.00E+00 I
+
 H-3    I 0.00E+00 I 0.00E+00 I 0.00E+00 I
+
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+
 TOTAL  I 2.39E-01 I 5.01E-02 I 3.65E-02 I
+
1GGNS ESP Airborne Effluents
  COST BENEFIT TABLES (NUCLIDE RELEASE, T.BODY AND THYROID - PERSON-REM)
0  Composite Plant Particulate 2
+
0NUCLIDE    CI/YR    T.BODY      THYROID
+
 -------+----------+----------+----------+
+
 Y  91  I 4.81E-04 I 7.32E-07 I 5.55E-08 I
+
 Y  92  I 1.24E-03 I 4.93E-09 I 4.93E-09 I
+
 Y  93  I 2.22E-03 I 2.22E-08 I 2.19E-08 I
+
 ZR 95  I 3.19E-03 I 9.21E-05 I 8.41E-05 I
+
 NB 95  I 1.68E-02 I 2.55E-04 I 2.47E-04 I
+
 MO 99  I 1.19E-01 I 6.24E-05 I 4.55E-05 I
+
 TC 99M I 5.95E-04 I 4.07E-09 I 4.07E-09 I
+
 RU103  I 7.03E-03 I 1.13E-04 I 8.15E-05 I
+
 RU106  I 2.34E-04 I 1.90E-05 I 1.07E-05 I
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SUBTOTALS  CI/YR    T.BODY      THYROID

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NOBLE  I 0.00E+00 I 0.00E+00 I 0.00E+00 I

IODINE I 0.00E+00 I 0.00E+00 I 0.00E+00 I

PART.  I 8.72E-02 I 7.63E-03 I 1.82E-03 I

C-14   I 0.00E+00 I 0.00E+00 I 0.00E+00 I

H-3    I 0.00E+00 I 0.00E+00 I 0.00E+00 I

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TOTAL  I 8.72E-02 I 7.63E-03 I 1.82E-03 I
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  Composite Plant Particulate 3

NUCLIDE    CI/YR    T.BODY      THYROID

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LA140  I 3.62E-03 I 6.22E-06 I 6.21E-06 I

CE141  I 1.84E-02 I 3.00E-05 I 2.69E-05 I

CE144  I 3.78E-05 I 1.08E-06 I 2.84E-07 I

PR144  I 3.78E-05 I 2.79E-14 I 2.79E-14 I

W 187  I 3.78E-04 I 7.03E-08 I 7.03E-08 I

NP239  I 2.38E-02 I 3.86E-06 I 3.84E-06 I

ZN 65  I 2.22E-02 I 5.39E-03 I 1.79E-03 I

RB 89  I 8.65E-05 I 5.19E-12 I 3.32E-12 I
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AG110M	4.00E-06	1.50E-06	1.49E-06
TE129M	4.38E-04	1.03E-05	2.10E-05
SB124	3.62E-04	2.46E-05	2.33E-05
SB125	1.83E-04	4.75E-05	4.70E-05
TE131M	1.51E-04	1.02E-07	1.03E-07
TE132	3.78E-05	2.13E-08	2.23E-08
CS134	1.24E-02	1.60E-02	9.20E-03
CS136	1.19E-03	6.76E-05	1.88E-05
CS137	1.89E-02	3.32E-02	2.66E-02
CS138	3.41E-04	2.00E-10	1.44E-10
BA140	5.41E-02	1.50E-04	1.17E-04
SR 89	1.14E-02	1.34E-04	2.64E-08
SR 90	3.60E-03	2.06E-03	0.00E+00
Y 90	9.19E-05	5.43E-10	3.95E-11
SR 91	2.00E-03	2.23E-07	2.23E-07
SR 92	1.57E-03	1.92E-08	1.92E-08

SUBTOTALS	CI/YR	T.BODY	THYROID
NOBLE	0.00E+00	0.00E+00	0.00E+00
IODINE	0.00E+00	0.00E+00	0.00E+00
PART.	2.39E-01	5.01E-02	3.65E-02
C-14	0.00E+00	0.00E+00	0.00E+00

SUBTOTALS	CI/YR	T.BODY	THYROID
NOBLE	0.00E+00	0.00E+00	0.00E+00
IODINE	0.00E+00	0.00E+00	0.00E+00
PART.	8.72E-02	7.63E-03	1.82E-03
C-14	0.00E+00	0.00E+00	0.00E+00

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 H-3    I 0.00E+00 I 0.00E+00 I 0.00E+00 I
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+
 TOTAL  I 2.39E-01 I 5.01E-02 I 3.65E-02 I
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1
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H-3    I 0.00E+00 I 0.00E+00 I 0.00E+00 I

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TOTAL  I 8.72E-02 I 7.63E-03 I 1.82E-03 I
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