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N 1.060E+04 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 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+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 0.000E+00 8.500E+04 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

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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

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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

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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

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
2.389E-01 TOTAL CURIES FOR 20 RADIONUCLIDES			

0

1

GGNS ESP Airborne Effluents

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

0

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

0

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

1

GGNS ESP Airborne Effluents

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

0

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		

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

GGNS ESP Airborne Effluents

0	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

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

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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	*
*	RU	103	7.03E-03	1.09E-03	5.26E-04	2.85E-09	1.04E-12	3.13E-07	*
*	RU	106	2.34E-04	3.40E-04	1.65E-04	3.27E-10	4.50E-14	1.74E-08	*
*	AG	110M	4.00E-06	3.96E-06	1.92E-06	5.54E-12	3.89E-11	1.26E-11	*
*	TE	129M	4.38E-04	5.81E-05	2.80E-05	1.67E-10	6.61E-11	3.66E-09	*
*	SB	124	3.62E-04	8.63E-05	4.17E-05	2.31E-10	8.78E-11	1.95E-10	*
*	SB	125	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

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SOURCE TERM RELEASE NUMBER 2

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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
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

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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

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





ZN 65	:	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%	:	4.60%
RB 89	:	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%
SR 89	:	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%
Y 90	:	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%
SR 91	:	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%
SR 92	:	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%
*TOTAL*	:	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	:	8.92E-05	:	0.00E+00
:	:	.04%	:	.33%	:	.20%	:	.00%	:	.00%	:	.47%	:	.00%
Y 92	:	6.01E-12	:	1.86E-06	:	2.07E-10	:	0.00E+00	:	0.00E+00	:	3.02E-07	:	0.00E+00
:	:	.00%	:	.04%	:	.00%	:	.00%	:	.00%	:	.00%	:	.00%
Y 93	:	2.78E-10	:	3.78E-05	:	1.01E-08	:	0.00E+00	:	0.00E+00	:	4.97E-06	:	0.00E+00
:	:	.00%	:	.80%	:	.00%	:	.00%	:	.00%	:	.03%	:	.00%
ZR 95	:	7.87E-06	:	3.96E-05	:	3.73E-05	:	1.09E-05	:	1.67E-05	:	5.76E-04	:	0.00E+00
:	:	.46%	:	.84%	:	.29%	:	.43%	:	1.68%	:	3.04%	:	.00%
NB 95	:	7.41E-06	:	1.41E-04	:	2.52E-05	:	1.29E-05	:	1.26E-05	:	8.53E-04	:	0.00E+00
:	:	.43%	:	2.99%	:	.20%	:	.51%	:	1.27%	:	4.50%	:	.00%







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*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



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: .00% : .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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1

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
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
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
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
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
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
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
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
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
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



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	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00
	: 24.56%	: 68.98%	: 6.53%	: 21.83%	: 34.92%	: .00%	: .00%	: .00%	: .00%	: .00%	: .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	: 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%	: .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	: 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%	: .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	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00
	: .00%	: .00%	: .00%	: .00%	: .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	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00
	: .00%	: .00%	: .00%	: .00%	: .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	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00
	: .00%	: .00%	: .00%	: .00%	: .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	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 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%





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	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00
:	: .00%	: .24%	: .00%	: .00%	: .00%	: .00%	: .00%	: .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	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00
:	: .00%	: .00%	: .00%	: .00%	: .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	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00
:	: .00%	: .00%	: .00%	: .00%	: .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	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00
:	: .00%	: .00%	: .00%	: .00%	: .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	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00
:	: 32.98%	: 5.57%	: 8.94%	: 39.21%	: 46.55%	: .00%	: .00%	: .00%	: .00%	: .00%	: .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	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00
:	: .29%	: .19%	: 4.10%	: .00%	: .00%	: .00%	: .00%	: .00%	: .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	: 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%	: .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	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00
:	: .00%	: .00%	: .00%	: .00%	: .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	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00
:	: .00%	: .00%	: .00%	: .00%	: .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	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 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%	.00%	.00%	.00%	.00%
Y 93	2.22E-08	3.78E-05	3.20E-08	2.19E-08	2.19E-08	2.19E-08	2.19E-08	2.19E-08	2.19E-08	2.19E-08	4.99E-06	3.00E-08
	.00%	.05%	.00%	.00%	.00%	.00%	.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%				.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%				.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%				.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%				.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%				.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%				.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%				.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%				.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%				.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%				.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%				.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





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	:
	:		:		:		:		:		:		:		:		:

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	0.00E+00	8.92E-05	0.00E+00
	.04%	.33%	.20%	.00%	.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	0.00E+00	3.02E-07	0.00E+00
	.00%	.04%	.00%	.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	0.00E+00	4.97E-06	0.00E+00
	.00%	.80%	.00%	.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	0.00E+00	5.76E-04	0.00E+00
	.46%	.84%	.29%	.43%	1.68%	.00%	.00%	3.04%	.00%
NB 95	7.41E-06	1.41E-04	2.52E-05	1.29E-05	1.26E-05	0.00E+00	0.00E+00	8.53E-04	0.00E+00
	.43%	2.99%	.20%	.51%	1.27%	.00%	.00%	4.50%	.00%
MO 99	2.63E-07	2.18E-03	0.00E+00	1.29E-06	3.08E-06	0.00E+00	0.00E+00	1.01E-03	0.00E+00
	.02%	46.35%	.00%	.05%	.31%	.00%	.00%	5.35%	.00%
TC 99M	6.24E-13	6.65E-08	1.78E-14	4.62E-14	6.93E-13	0.00E+00	0.00E+00	1.24E-08	0.00E+00
	.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	0.00E+00	3.65E-04	0.00E+00
	.03%	1.35%	.00%	.00%	.41%	.00%	.00%	1.93%	.00%
RU106	2.31E-07	1.81E-05	1.84E-06	0.00E+00	3.24E-06	0.00E+00	0.00E+00	2.39E-04	0.00E+00
	.01%	.38%	.01%	.00%	.33%	.00%	.00%	1.26%	.00%
AG110M	2.51E-09	9.77E-08	4.55E-09	3.94E-09	7.64E-09	0.00E+00	0.00E+00	1.87E-06	0.00E+00
	.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	0.00E+00
	.00%	.30%	.00%	.00%	.17%	96.87%	.29%	.00%	.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	0.00E+00
	.03%	.26%	.00%	.00%	.00%	1.72%	.49%	.00%	.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	0.00E+00
	.01%	.03%	.00%	.00%	.00%	.63%	.18%	.00%	.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	0.00E+00
	.00%	.11%	.00%	.00%	.00%	.39%	.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







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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.27%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	24.56%	68.98%	6.53%	21.83%	34.92%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.28%	3.12%	4.11%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	1.93%	5.91%	39.88%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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









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





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-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
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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1

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

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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 :          :          :          :          :          :          :          :          :

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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

1

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

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

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

Y 92	2.25E-11	5.49E-06	7.71E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-06	0.00E+00	0.00E+00
Y 93	3.49E-10	5.64E-05	1.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-06	0.00E+00	0.00E+00
ZR 95	4.47E-06	2.89E-05	2.06E-05	6.61E-06	1.04E-05	0.00E+00	0.00E+00	0.00E+00	3.40E-04	0.00E+00	0.00E+00
NB 95	4.26E-06	1.05E-04	1.42E-05	7.91E-06	7.83E-06	0.00E+00	0.00E+00	0.00E+00	5.11E-04	0.00E+00	0.00E+00
MO 99	1.65E-07	1.78E-03	0.00E+00	8.66E-07	2.09E-06	0.00E+00	0.00E+00	0.00E+00	6.54E-04	0.00E+00	0.00E+00
TC 99M	1.33E-12	1.49E-07	3.70E-14	1.04E-13	1.58E-12	0.00E+00	0.00E+00	0.00E+00	2.74E-08	0.00E+00	0.00E+00
RU103	2.79E-07	4.67E-05	6.47E-07	0.00E+00	2.47E-06	0.00E+00	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00
RU106	1.23E-07	1.29E-05	9.74E-07	0.00E+00	1.88E-06	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00
AG110M	1.43E-09	7.29E-08	2.60E-09	2.41E-09	4.74E-09	0.00E+00	0.00E+00	0.00E+00	1.12E-06	0.00E+00	0.00E+00
TE129M	4.18E-08	1.01E-05	2.57E-07	1.23E-07	9.64E-07	9.07E-08	9.07E-08	3.06E-05	0.00E+00	0.00E+00	0.00E+00
SB124	2.70E-07	8.86E-06	6.80E-07	1.28E-08	0.00E+00	1.65E-09	1.65E-09	5.41E-05	0.00E+00	0.00E+00	0.00E+00
SB125	1.39E-07	1.11E-06	5.88E-07	6.56E-09	0.00E+00	5.95E-10	5.95E-10	1.92E-05	0.00E+00	0.00E+00	0.00E+00
TE131M	2.64E-10	5.06E-06	6.36E-10	3.97E-10	2.81E-09	5.01E-10	5.01E-10	1.32E-06	0.00E+00	0.00E+00	0.00E+00
TE132	3.68E-10	1.16E-06	5.92E-10	4.90E-10	3.31E-09	4.32E-10	4.32E-10	6.56E-07	0.00E+00	0.00E+00	0.00E+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	0.00E+00
	43.40%	.21%	3.71%	41.59%	35.71%	.00%	.66%	.00%	.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	0.00E+00
	.63%	.02%	.04%	.69%	1.02%	.00%	.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	0.00E+00
	38.89%	.26%	7.25%	46.41%	42.15%	.00%	.78%	.00%	.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	0.00E+00
	.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	0.00E+00
	.67%	19.19%	1.69%	.01%	.00%	.00%	37.59%	.00%	.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	0.00E+00
	.00%	2.70%	.00%	.00%	.00%	.00%	.27%	.00%	.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	0.00E+00
	.14%	3.59%	.29%	.98%	1.16%	.00%	3.63%	.00%	.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	0.00E+00
	.03%	.05%	.10%	.21%	.32%	.00%	.16%	.00%	.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	0.00E+00
	.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	0.00E+00
	.00%	.10%	.00%	.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	0.00E+00
	.00%	4.61%	.00%	.02%	.02%	.00%	.49%	.00%	.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	0.00E+00
	4.97%	1.93%	.58%	9.06%	15.35%	.00%	10.48%	.00%	.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	0.00E+00
	.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	0.00E+00



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

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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	:	8.51E-05	:	0.00E+00
	:	.05%	:	.30%	:	.21%	:	.00%	:	.00%	:	.48%	:	.00%
Y 92	:	3.20E-11	:	1.23E-05	:	1.10E-09	:	0.00E+00	:	0.00E+00	:	2.00E-06	:	0.00E+00
	:	.00%	:	.31%	:	.00%	:	.00%	:	.00%	:	.01%	:	.00%
Y 93	:	4.97E-10	:	7.74E-05	:	1.81E-08	:	0.00E+00	:	0.00E+00	:	1.11E-05	:	0.00E+00
	:	.00%	:	1.95%	:	.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
	:	.58%	:	.72%	:	.31%	:	.43%	:	1.63%	:	.00%	:	2.90%
NB 95	:	5.73E-06	:	9.79E-05	:	1.88E-05	:	1.04E-05	:	1.01E-05	:	0.00E+00	:	7.60E-04
	:	.55%	:	2.46%	:	.21%	:	.51%	:	1.27%	:	.00%	:	4.26%
MO 99	:	2.31E-07	:	1.93E-03	:	0.00E+00	:	1.21E-06	:	2.95E-06	:	0.00E+00	:	1.10E-03

		.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%	.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	.00%
	.04%	1.16%	.00%	.00%	.40%	.00%	1.86%	.00%	.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	.00%
	.02%	.34%	.02%	.00%	.34%	.00%	1.27%	.00%	.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%	.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%
	.00%	.27%	.00%	.00%	.17%	96.70%	.29%	.00%	.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	.00%
	.04%	.22%	.01%	.00%	.00%	1.70%	.47%	.00%	.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	.00%
	.02%	.03%	.00%	.00%	.00%	.62%	.17%	.00%	.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%
	.00%	.14%	.00%	.00%	.00%	.53%	.01%	.00%	.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%
	.00%	.03%	.00%	.00%	.00%	.45%	.00%	.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	.00%
	39.46%	.18%	4.19%	41.15%	35.21%	.00%	.61%	.00%	.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	.00%
	.94%	.02%	.04%	.68%	.99%	.00%	.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	.00%
	34.11%	.24%	8.51%	47.15%	43.49%	.00%	.77%	.00%	.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%	.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	.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

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 : .11%	: 5.33E-06 : .28%	: 2.65E-05 : .25%	: 0.00E+00 : .00%	: 0.00E+00 : .00%	: 0.00E+00 : .00%	: 7.61E-05 : .49%	: 0.00E+00 : .00%
Y 92	: 4.34E-11 : .00%	: 1.79E-05 : .95%	: 1.52E-09 : .00%	: 0.00E+00 : .00%	: 0.00E+00 : .00%	: 0.00E+00 : .00%	: 1.79E-06 : .01%	: 0.00E+00 : .00%
Y 93	: 6.83E-10 : .00%	: 5.19E-05 : 2.78%	: 2.49E-08 : .00%	: 0.00E+00 : .00%	: 0.00E+00 : .00%	: 0.00E+00 : .00%	: 9.94E-06 : .06%	: 0.00E+00 : .00%
ZR 95	: 7.11E-06 : 1.13%	: 1.17E-05 : .63%	: 3.65E-05 : .34%	: 8.03E-06 : .42%	: 1.14E-05 : 1.61%	: 0.00E+00 : .00%	: 4.29E-04 : 2.78%	: 0.00E+00 : .00%
NB 95	: 6.63E-06 : 1.05%	: 3.74E-05 : 2.00%	: 2.38E-05 : .22%	: 9.28E-06 : .49%	: 8.72E-06 : 1.22%	: 0.00E+00 : .00%	: 6.21E-04 : 4.03%	: 0.00E+00 : .00%
MO 99	: 3.05E-07 : .05%	: 9.07E-04 : 48.49%	: 0.00E+00 : .00%	: 1.24E-06 : .06%	: 2.81E-06 : .39%	: 0.00E+00 : .00%	: 9.71E-04 : 6.30%	: 0.00E+00 : .00%
TC 99M	: 2.07E-12 : .00%	: 1.72E-07 : .00%	: 6.38E-14 : .00%	: 1.25E-13 : .00%	: 1.82E-12 : .00%	: 0.00E+00 : .00%	: 3.41E-08 : .00%	: 0.00E+00 : .00%
RU103	: 4.54E-07 : .07%	: 1.90E-05 : 1.01%	: 1.18E-06 : .01%	: 0.00E+00 : .00%	: 2.98E-06 : .42%	: 0.00E+00 : .00%	: 2.80E-04 : 1.82%	: 0.00E+00 : .00%
RU106	: 2.38E-07 : .04%	: 6.05E-06 : .32%	: 1.92E-06 : .02%	: 0.00E+00 : .00%	: 2.59E-06 : .36%	: 0.00E+00 : .00%	: 2.02E-04 : 1.31%	: 0.00E+00 : .00%
AG110M	: 2.20E-09 : .00%	: 2.42E-08 : .00%	: 4.06E-09 : .00%	: 2.75E-09 : .00%	: 5.12E-09 : .00%	: 0.00E+00 : .00%	: 1.32E-06 : .00%	: 0.00E+00 : .00%
TE129M	: 8.02E-08 : .00%	: 4.79E-06 : .00%	: 5.07E-07 : .00%	: 1.81E-07 : .00%	: 1.33E-06 : .00%	: 1.67E-07 : .00%	: 4.65E-05 : .00%	: 0.00E+00 : .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	0.00%
	.07%	.19%	.01%	.00%	.00%	1.60%	.46%	.00%	.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	0.00%
	.04%	.02%	.01%	.00%	.00%	.58%	.17%	.00%	.00%
TE1131M	4.61E-10	2.80E-06	1.22E-09	5.38E-10	3.63E-09	8.88E-10	1.87E-06	0.00E+00	0.00%
	.00%	.15%	.00%	.00%	.00%	.52%	.01%	.00%	.00%
TE1132	6.00E-10	3.13E-07	1.10E-09	6.20E-10	4.03E-09	7.23E-10	8.59E-07	0.00E+00	0.00%
	.00%	.02%	.00%	.00%	.00%	.42%	.00%	.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	0.00%
	26.69%	.15%	4.53%	39.73%	34.62%	.00%	.59%	.00%	.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	0.00%
	1.32%	.02%	.04%	.64%	.96%	.00%	.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	0.00%
	23.25%	.22%	9.62%	49.28%	45.09%	.00%	.77%	.00%	.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	0.00%
	.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	0.00%
	2.24%	17.73%	2.25%	.01%	.00%	.00%	36.87%	.00%	.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	0.00%
	.00%	2.63%	.00%	.00%	.00%	.00%	.26%	.00%	.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	0.00%
	.51%	3.35%	.41%	1.14%	1.33%	.00%	3.91%	.00%	.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	0.00%
	.13%	.05%	.14%	.25%	.37%	.00%	.18%	.00%	.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	0.00%
	.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	0.00%



Y 93	5.45E-10	2.23E-05	2.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00
ZR 95	3.90E-06	4.17E-06	2.22E-05	5.35E-06	5.97E-06	0.00E+00	0.00E+00	3.36E-04	0.00E+00	0.00E+00	0.00E+00
NB 95	3.82E-06	1.28E-05	1.59E-05	6.50E-06	4.77E-06	0.00E+00	0.00E+00	4.84E-04	0.00E+00	0.00E+00	0.00E+00
MO 99	2.32E-07	3.49E-04	0.00E+00	1.18E-06	1.90E-06	0.00E+00	0.00E+00	9.66E-04	0.00E+00	0.00E+00	0.00E+00
TC 99M	1.33E-12	7.27E-08	5.01E-14	1.03E-13	1.11E-12	0.00E+00	0.00E+00	2.90E-08	0.00E+00	0.00E+00	0.00E+00
RU103	2.88E-07	6.82E-06	8.54E-07	0.00E+00	1.80E-06	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	0.00E+00
RU106	1.53E-07	2.31E-06	1.22E-06	0.00E+00	1.50E-06	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00
AG110M	1.20E-09	7.96E-09	2.40E-09	1.74E-09	2.63E-09	0.00E+00	0.00E+00	8.84E-07	0.00E+00	0.00E+00	0.00E+00
TE129M	5.87E-08	1.82E-06	3.73E-07	1.61E-07	8.38E-07	1.44E-07	1.44E-07	4.43E-05	0.00E+00	0.00E+00	0.00E+00
SB124	2.61E-07	1.29E-06	8.27E-07	1.21E-08	0.00E+00	2.19E-09	2.19E-09	5.77E-05	0.00E+00	0.00E+00	0.00E+00
SB125	1.20E-07	1.62E-07	5.69E-07	5.26E-09	0.00E+00	6.87E-10	6.87E-10	1.81E-05	0.00E+00	0.00E+00	0.00E+00
TE131M	3.30E-10	1.08E-06	9.70E-10	5.00E-10	2.41E-09	8.12E-10	8.12E-10	1.81E-06	0.00E+00	0.00E+00	0.00E+00
TE132	4.02E-10	1.00E-07	8.48E-10	5.39E-10	2.36E-09	6.34E-10	6.34E-10	7.75E-07	0.00E+00	0.00E+00	0.00E+00
CS134	5.56E-05	9.96E-07	2.96E-04	5.25E-04	1.42E-04	0.00E+00	0.00E+00	5.95E-05	0.00E+00	0.00E+00	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



Y 90	27.11%	3.62%	69.15%	.00%	.00%	.00%	18.53%	.00%	.00%
SR 91	4.88E-10	5.76E-07	1.82E-08	0.00E+00	0.00E+00	0.00E+00	1.49E-06	0.00E+00	0.00E+00
SR 92	4.17E-10	8.84E-06	1.15E-08	0.00E+00	0.00E+00	0.00E+00	6.34E-06	0.00E+00	0.00E+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	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 = 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
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
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
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
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
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
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%	.12%	.00%	.00%	.00%	.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	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	8.15%	.00%	.00%	.00%	.00%	.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	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.19%	.00%	.00%	.00%	.00%	.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	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.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	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.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	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.33%	.00%	.00%	.00%	.00%	.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	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	4.63%	8.53%	.30%	9.07%	16.29%	.00%	.00%	.00%	.00%	.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	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.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	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	1.70%	12.57%	5.56%	.00%	.00%	.00%	.00%	.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	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	18.78%	31.09%	87.74%	.00%	.00%	.00%	.00%	.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	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.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	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.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	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	.00%	.00%	.00%	.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	0.00E+00	0.00E+00	0.00E+00	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	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00
	: .00%	: .91%	: .00%	: .00%	: .00%	: .00%	: .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	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00
	: .00%	: .00%	: .00%	: .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	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00
	: .00%	: .00%	: .00%	: .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	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00
	: .00%	: 2.27%	: .00%	: .00%	: .00%	: .00%	: .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	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00
	: .00%	: 6.12%	: .00%	: .00%	: .00%	: .00%	: .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	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00
	: .06%	: .65%	: .00%	: .18%	: 1.13%	: .00%	: .00%	: .00%	: .00%	: .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	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00
	: .00%	: .00%	: .00%	: .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	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00
	: .01%	: 2.97%	: .00%	: .00%	: .17%	: .00%	: .00%	: .00%	: .00%	: .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	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00
	: .00%	: 1.43%	: .00%	: .00%	: .08%	: .00%	: .00%	: .00%	: .00%	: .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	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00
	: .00%	: .00%	: .00%	: .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	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00
	: .02%	: .58%	: .00%	: .03%	: .88%	: 99.61%	: .00%	: .00%	: .00%	: .00%	: .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	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 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









SR 91	: .00%	: .00%	: .00%	: .00%	: .00%	: .00%	: .00%	: .00%	: .00%	: .00%	: .00%	: .00%	: .00%
	: 6.69E-09	: 3.92E-07	: 1.77E-07	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00
	: .00%	: .00%	: .00%	: .00%	: .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	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 0.00E+00
	: .00%	: .00%	: .00%	: .00%	: .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	: 1.57E-02	: 0.00E+00	: 0.00E+00	: 0.00E+00	: 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	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	0.00E+00	3.26E-05	0.00E+00
	.03%	.05%	.10%	.21%	.32%	.00%	.00%	.16%	.00%
PR144	6.41E-15	9.03E-20	1.26E-13	5.23E-14	2.96E-14	0.00E+00	0.00E+00	4.26E-09	0.00E+00
	.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	0.00E+00	1.22E-06	0.00E+00
	.00%	.10%	.00%	.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	0.00E+00	9.93E-05	0.00E+00
	.00%	4.61%	.00%	.02%	.02%	.00%	.00%	.49%	.00%
ZN 65	1.15E-04	1.32E-04	7.98E-05	2.54E-04	1.70E-04	0.00E+00	0.00E+00	2.13E-03	0.00E+00
	4.97%	1.93%	.58%	9.06%	15.35%	.00%	.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	0.00E+00
	.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	0.00E+00	1.77E-03	0.00E+00
	.48%	6.47%	2.78%	.00%	.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	0.00E+00	3.83E-03	0.00E+00
	9.98%	4.22%	82.87%	.00%	.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	0.00E+00	1.73E-06	0.00E+00
	.00%	.08%	.00%	.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	0.00E+00	8.09E-06	0.00E+00
	.00%	.62%	.00%	.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	0.00E+00	2.87E-06	0.00E+00
	.00%	.11%	.00%	.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	0.00E+00

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	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%	:	.04%	:	.00%
SR 92	:	9.15E-11	:	4.22E-05	:	2.28E-09	:	0.00E+00	:	0.00E+00	:	4.18E-06	:	0.00E+00
	:	.00%	:	1.23%	:	.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

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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	:	1.31E-04	:	0.00E+00
	:	.18%	:	.26%	:	.35%	:	.00%	:	.00%	:	.54%	:	.00%
Y 92	:	6.34E-11	:	1.74E-05	:	2.25E-09	:	0.00E+00	:	0.00E+00	:	3.37E-06	:	0.00E+00
	:	.00%	:	1.21%	:	.00%	:	.00%	:	.00%	:	.01%	:	.00%
Y 93	:	1.00E-09	:	4.10E-05	:	3.69E-08	:	0.00E+00	:	0.00E+00	:	1.88E-05	:	0.00E+00
	:	.00%	:	2.84%	:	.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
	:	1.56%	:	.53%	:	.45%	:	.40%	:	1.46%	:	.00%	:	2.56%
NB 95	:	7.05E-06	:	2.36E-05	:	2.92E-05	:	1.20E-05	:	8.79E-06	:	0.00E+00	:	8.92E-04
	:	1.53%	:	1.63%	:	.33%	:	.48%	:	1.17%	:	.00%	:	3.68%
MO 99	:	4.27E-07	:	6.43E-04	:	0.00E+00	:	2.18E-06	:	3.49E-06	:	0.00E+00	:	1.78E-03
	:	.09%	:	44.53%	:	.00%	:	.09%	:	.46%	:	.00%	:	7.34%
TC 99M	:	2.46E-12	:	1.34E-07	:	9.22E-14	:	1.90E-13	:	2.05E-12	:	0.00E+00	:	5.35E-08
	:	.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
	:	.12%	:	.87%	:	.02%	:	.00%	:	.44%	:	.00%	:	1.78%
RU106	:	2.82E-07	:	4.25E-06	:	2.25E-06	:	0.00E+00	:	2.77E-06	:	0.00E+00	:	3.00E-04

	.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	0.00E+00
	.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	0.00E+00
	.00%	.10%	.00%	.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	0.00E+00
	.01%	4.56%	.01%	.03%	.02%	.00%	.65%	.00%	.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	0.00E+00
	16.64%	8.76%	.53%	6.20%	10.60%	.00%	6.57%	.00%	.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	0.00E+00
	.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	0.00E+00
	3.14%	5.60%	5.60%	.00%	.00%	.00%	10.59%	.00%	.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	0.00E+00
	27.11%	3.62%	69.15%	.00%	.00%	.00%	18.53%	.00%	.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	0.00E+00
	.00%	.07%	.00%	.00%	.00%	.00%	.01%	.00%	.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	0.00E+00
	.00%	1.13%	.00%	.00%	.00%	.00%	.05%	.00%	.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	0.00E+00
	.00%	1.69%	.00%	.00%	.00%	.00%	.02%	.00%	.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	0.00E+00

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



Y 90	1.29%	5.09%	43.53%	.00%	.00%	.00%	.00%	.00%	.00%	.00%
SR 91	4.54E-16	1.80E-10	1.69E-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SR 92	4.41E-12	5.20E-10	1.09E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+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	0.00E+00	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
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
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
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
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
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
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%	.00%	.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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		.00%	.28%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		24.62%	64.35%	6.78%	22.34%	34.42%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		.27%	3.21%	4.17%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		1.79%	5.88%	39.84%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.00%	.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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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



	3.43%	7.01%	36.98%	.00%	.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	0.00E+00
	.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	0.00E+00
	.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	0.00E+00
	.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	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%	:	.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	:	0.00E+00	:	0.00E+00	:	0.00E+00	:	0.00E+00	:	0.00E+00	:	0.00E+00	:
	:	.00%	:	.06%	:	.00%	:	.00%	:	.00%	:	.00%	:	.00%	:	.00%	:	.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	:	0.00E+00	:	0.00E+00	:	0.00E+00	:	0.00E+00	:	0.00E+00	:	0.00E+00	:
	:	.00%	:	.00%	:	.00%	:	.00%	:	.00%	:	.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	:	0.00E+00	:	0.00E+00	:	0.00E+00	:	0.00E+00	:	0.00E+00	:	0.00E+00	:
	:	.00%	:	.00%	:	.00%	:	.00%	:	.00%	:	.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	:	0.00E+00	:	0.00E+00	:	0.00E+00	:	0.00E+00	:	0.00E+00	:	0.00E+00	:
	:	.00%	:	.00%	:	.00%	:	.00%	:	.00%	:	.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	:	0.00E+00	:	0.00E+00	:	0.00E+00	:	0.00E+00	:	0.00E+00	:	0.00E+00	:
	:	52.96%	:	92.41%	:	5.64%	:	18.96%	:	28.66%	:	.00%	:	.00%	:	.00%	:	.00%	:	.00%	:	.00%	:	.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	:	0.00E+00	:	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%	:	.00%	:	.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	:	0.00E+00	:	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%	:	.00%	:	.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	:	0.00E+00	:	0.00E+00	:	0.00E+00	:	0.00E+00	:	0.00E+00	:	0.00E+00	:
	:	.00%	:	.00%	:	.00%	:	.00%	:	.00%	:	.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	:	0.00E+00	:	0.00E+00	:	0.00E+00	:	0.00E+00	:	0.00E+00	:	0.00E+00	:
	:	.00%	:	.00%	:	.00%	:	.00%	:	.00%	:	.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	:	0.00E+00	:	0.00E+00	:	0.00E+00	:	0.00E+00	:	0.00E+00	:	0.00E+00	:
	:	.00%	:	.00%	:	.00%	:	.00%	:	.00%	:	.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	:	0.00E+00	:	0.00E+00	:	0.00E+00	:	0.00E+00	:	0.00E+00	:	0.00E+00	:
	:	.00%	:	.00%	:	.00%	:	.00%	:	.00%	:	.00%	:	.00%	:	.00%	:	.00%	:	.00%	:	.00%	:	.00%	:	.00%	:	.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 : .00% :	3.21E-06 : .10% :	5.83E-09 : .00% :	0.00E+00 : .00% :	0.00E+00 : .00% :	0.00E+00 : .00% :	0.00E+00 : .00% :	0.00E+00 : .00% :
Y 93	3.01E-27 : .00% :	3.45E-21 : .00% :	1.09E-25 : .00% :	0.00E+00 : .00% :	0.00E+00 : .00% :	0.00E+00 : .00% :	0.00E+00 : .00% :	0.00E+00 : .00% :
ZR 95	1.38E-08 : .00% :	6.46E-05 : 2.02% :	6.36E-08 : .00% :	2.04E-08 : .00% :	3.20E-08 : .00% :	0.00E+00 : .00% :	0.00E+00 : .00% :	0.00E+00 : .00% :
NB 95	1.29E-07 : .03% :	1.45E-03 : 45.43% :	4.30E-07 : .04% :	2.39E-07 : .03% :	2.36E-07 : .06% :	0.00E+00 : .00% :	0.00E+00 : .00% :	0.00E+00 : .00% :
MO 99	2.81E-08 : .00% :	3.42E-07 : .01% :	0.00E+00 : .00% :	1.48E-07 : .02% :	3.34E-07 : .08% :	0.00E+00 : .00% :	0.00E+00 : .00% :	0.00E+00 : .00% :
TC 99M	9.49E-34 : .00% :	4.41E-32 : .00% :	2.64E-35 : .00% :	7.45E-35 : .00% :	1.13E-33 : .00% :	0.00E+00 : .00% :	3.65E-35 : .00% :	0.00E+00 : .00% :
RU103	3.52E-06 : .76% :	9.53E-04 : 29.83% :	8.16E-06 : .84% :	0.00E+00 : .00% :	3.12E-05 : 7.70% :	0.00E+00 : .00% :	0.00E+00 : .00% :	0.00E+00 : .00% :
RU106	8.49E-07 : .18% :	4.34E-04 : 13.59% :	6.71E-06 : .69% :	0.00E+00 : .00% :	1.30E-05 : 3.20% :	0.00E+00 : .00% :	0.00E+00 : .00% :	0.00E+00 : .00% :
AG110M	1.56E-10 : .00% :	1.07E-07 : .00% :	2.83E-10 : .00% :	2.62E-10 : .00% :	5.15E-10 : .00% :	0.00E+00 : .00% :	0.00E+00 : .00% :	0.00E+00 : .00% :
TE129M	9.40E-07 : .20% :	2.99E-05 : .94% :	5.94E-06 : .61% :	2.22E-06 : .31% :	2.48E-05 : 6.13% :	2.04E-06 : 99.96% :	0.00E+00 : .00% :	0.00E+00 : .00% :
SB124	3.04E-08 : .00% :	2.17E-06 : .07% :	7.66E-08 : .00% :	1.45E-09 : .00% :	0.00E+00 : .00% :	1.86E-10 : .00% :	5.96E-08 : .13% :	0.00E+00 : .00% :
SB125	8.36E-09 : .00% :	3.87E-07 : .01% :	3.51E-08 : .00% :	3.92E-10 : .00% :	0.00E+00 : .00% :	3.57E-11 : .00% :	2.71E-08 : .06% :	0.00E+00 : .00% :
TE131M	3.44E-13 : .00% :	4.09E-11 : .00% :	8.43E-13 : .00% :	4.12E-13 : .00% :	4.18E-12 : .00% :	6.53E-13 : .00% :	0.00E+00 : .00% :	0.00E+00 : .00% :
TE132	4.19E-10 : .00% :	2.11E-08 : .00% :	6.90E-10 : .00% :	4.46E-10 : .00% :	4.30E-09 : .00% :	4.93E-10 : .00% :	0.00E+00 : .00% :	0.00E+00 : .00% :

		.00%		.00%		.00%		.00%		.02%		.00%		.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%	8.39%	27.02%	15.55%	44.01%	0.00E+00	0.00E+00	0.00%
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%	.09%	.11%	.00%	0.00E+00	0.00%	
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%	17.57%	32.54%	19.64%	55.67%	0.00E+00	0.00%	
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%	.03%	0.00E+00	.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%	0.00E+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%	0.00E+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%	0.00E+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%	0.00E+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%	0.00E+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%	47.53%	.00%	0.00E+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%	0.00E+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	.44%	.44%	56.80%	.00%	.00%	0.00E+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%	0.00E+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						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%
TE1131M	: 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%
TE1132	: 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	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%	: .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	: 0.00E+00	: 0.00E+00
	: 1.79%	: 31.06%	: 1.00%	: .00%	: 8.11%	: .00%	: .00%	: .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	: 0.00E+00	: 0.00E+00
	: .51%	: 16.55%	: .89%	: .00%	: 3.85%	: .00%	: .00%	: .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	: 0.00E+00	: 0.00E+00
	: .00%	: .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	: 0.00E+00	: 0.00E+00
	: .56%	: 1.14%	: .78%	: .38%	: 7.38%	: 99.97%	: .00%	: .00%	: .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	: 0.00E+00	: 0.00E+00
	: .02%	: .07%	: .00%	: .00%	: .00%	: .00%	: .12%	: .00%	: .00%	: .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	: 0.00E+00	: 0.00E+00
	: .00%	: .01%	: .00%	: .00%	: .00%	: .00%	: .06%	: .00%	: .00%	: .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	: 0.00E+00	: 0.00E+00
	: .00%	: .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	: 0.00E+00	: 0.00E+00
	: .00%	: .00%	: .00%	: .00%	: .00%	: .02%	: .00%	: .00%	: .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	: 0.00E+00	: 0.00E+00
	: 15.36%	: .10%	: 9.56%	: 27.00%	: 15.61%	: .00%	: 41.44%	: .00%	: .00%	: .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	: 0.00E+00	: 0.00E+00
	: .16%	: .00%	: .02%	: .09%	: .09%	: .00%	: .10%	: .00%	: .00%	: .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	: 0.00E+00	: 0.00E+00
	: 14.32%	: .16%	: 21.83%	: 35.99%	: 21.88%	: .00%	: 58.24%	: .00%	: .00%	: .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	: 0.00E+00	: 0.00E+00
	: .65%	: 1.45%	: 2.40%	: .00%	: .00%	: .00%	: .03%	: .00%	: .00%	: .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	: 0.00E+00	: 0.00E+00
	: .00%	: .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	: 0.00E+00	: 0.00E+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	0.00E+00	0.00E+00	0.00E+00	0.00E+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	0.00E+00	0.00E+00	0.00E+00	0.00E+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	0.00E+00	0.00E+00	0.00E+00	0.00E+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	0.00E+00	0.00E+00	0.00E+00	0.00E+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	0.00E+00	0.00E+00	0.00E+00	0.00E+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	0.00E+00	0.00E+00	0.00E+00	0.00E+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	0.00E+00	0.00E+00	0.00E+00	0.00E+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	0.00E+00	0.00E+00	0.00E+00	0.00E+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	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1GGNS ESP Airborne Effluents

COST BENEFIT TABLES (NUCLIDE RELEASE, T.BODY AND THYROID - PERSON-REM)

0 Composite Plant Particulate 2

+ Composite Plant Particulate 3

0NUCLIDE	CI/YR	T.BODY	THYROID	NUCLIDE	CI/YR	T.BODY	THYROID
Y 91	I 4.81E-04	I 7.32E-07	I 5.55E-08	LA140	I 3.62E-03	I 6.22E-06	I 6.21E-06
Y 92	I 1.24E-03	I 4.93E-09	I 4.93E-09	CE141	I 1.84E-02	I 3.00E-05	I 2.69E-05
Y 93	I 2.22E-03	I 2.22E-08	I 2.19E-08	CE144	I 3.78E-05	I 1.08E-06	I 2.84E-07

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

SUBTOTALS CI/YR T.BODY THYROID

	SUBTOTALS	CI/YR	T.BODY	THYROID
	NOBLE	I 0.00E+00	I 0.00E+00	I 0.00E+00
	IODINE	I 0.00E+00	I 0.00E+00	I 0.00E+00
	PART.	I 8.72E-02	I 7.63E-03	I 1.82E-03
	C-14	I 0.00E+00	I 0.00E+00	I 0.00E+00
	H-3	I 0.00E+00	I 0.00E+00	I 0.00E+00
	TOTAL	I 8.72E-02	I 7.63E-03	I 1.82E-03

1GGNS ESP Airborne Effluents

COST BENEFIT TABLES (NUCLIDE RELEASE, T.BODY AND THYROID - PERSON-REM)

0 Composite Plant Particulate 2

Composite Plant Particulate 3

	NUCLIDE	CI/YR	T.BODY	THYROID
	LA140	I 3.62E-03	I 6.22E-06	I 6.21E-06
	CE141	I 1.84E-02	I 3.00E-05	I 2.69E-05
	CE144	I 3.78E-05	I 1.08E-06	I 2.84E-07
	PR144	I 3.78E-05	I 2.79E-14	I 2.79E-14
	W 187	I 3.78E-04	I 7.03E-08	I 7.03E-08
	NP239	I 2.38E-02	I 3.86E-06	I 3.84E-06
	ZN 65	I 2.22E-02	I 5.39E-03	I 1.79E-03
	RB 89	I 8.65E-05	I 5.19E-12	I 3.32E-12

	NUCLIDE	CI/YR	T.BODY	THYROID
	NOBLE	I 0.00E+00	I 0.00E+00	I 0.00E+00
	IODINE	I 0.00E+00	I 0.00E+00	I 0.00E+00
	PART.	I 2.39E-01	I 5.01E-02	I 3.65E-02
	C-14	I 0.00E+00	I 0.00E+00	I 0.00E+00
	H-3	I 0.00E+00	I 0.00E+00	I 0.00E+00
	TOTAL	I 2.39E-01	I 5.01E-02	I 3.65E-02

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	I 4.81E-04	I 7.32E-07	I 5.55E-08
	Y 92	I 1.24E-03	I 4.93E-09	I 4.93E-09
	Y 93	I 2.22E-03	I 2.22E-08	I 2.19E-08
	ZR 95	I 3.19E-03	I 9.21E-05	I 8.41E-05
	NB 95	I 1.68E-02	I 2.55E-04	I 2.47E-04
	MO 99	I 1.19E-01	I 6.24E-05	I 4.55E-05
	TC 99M	I 5.95E-04	I 4.07E-09	I 4.07E-09
	RU103	I 7.03E-03	I 1.13E-04	I 8.15E-05
	RU106	I 2.34E-04	I 1.90E-05	I 1.07E-05

SR 89	I	1.14E-02	I	1.34E-04	I	2.64E-08	I
SR 90	I	3.60E-03	I	2.06E-03	I	0.00E+00	I
Y 90	I	9.19E-05	I	5.43E-10	I	3.95E-11	I
SR 91	I	2.00E-03	I	2.23E-07	I	2.23E-07	I
SR 92	I	1.57E-03	I	1.92E-08	I	1.92E-08	I

AG110M	I	4.00E-06	I	1.50E-06	I	1.49E-06	I
TE129M	I	4.38E-04	I	1.03E-05	I	2.10E-05	I
SB124	I	3.62E-04	I	2.46E-05	I	2.33E-05	I
SB125	I	1.83E-04	I	4.75E-05	I	4.70E-05	I
TE131M	I	1.51E-04	I	1.02E-07	I	1.03E-07	I
TE132	I	3.78E-05	I	2.13E-08	I	2.23E-08	I
CS134	I	1.24E-02	I	1.60E-02	I	9.20E-03	I
CS136	I	1.19E-03	I	6.76E-05	I	1.88E-05	I
CS137	I	1.89E-02	I	3.32E-02	I	2.66E-02	I
CS138	I	3.41E-04	I	2.00E-10	I	1.44E-10	I
BA140	I	5.41E-02	I	1.50E-04	I	1.17E-04	I

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

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

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

H-3 I 0.00E+00 I 0.00E+00 I 0.00E+00 I  
-----+-----+  
TOTAL I 8.72E-02 I 7.63E-03 I 1.82E-03 I