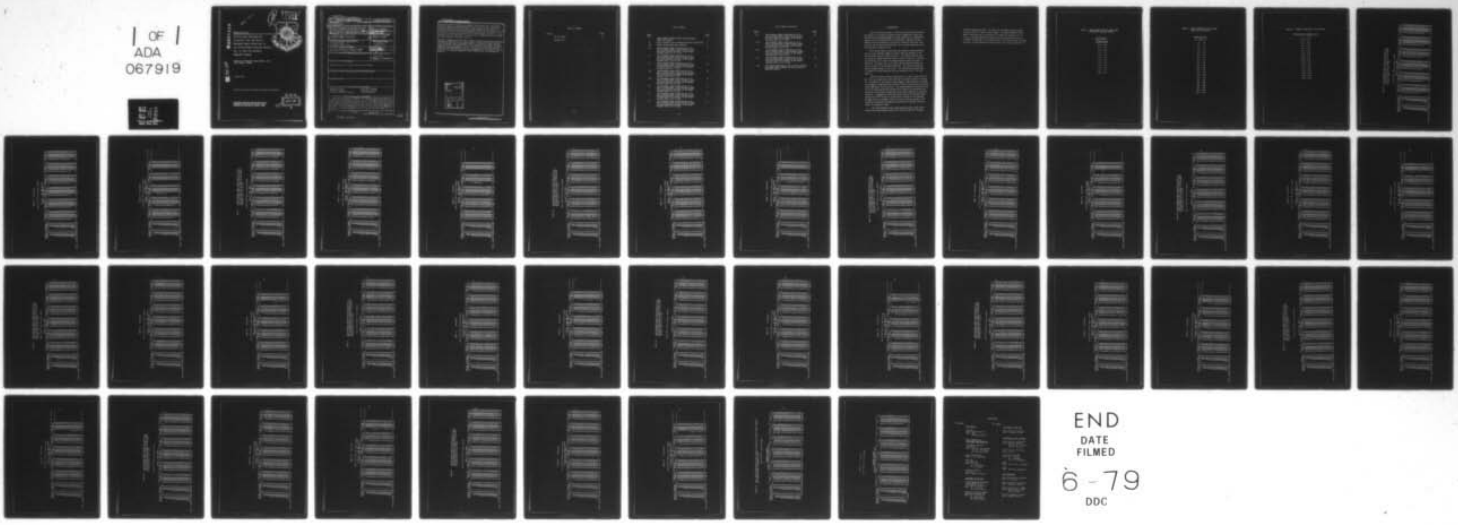
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CALCULATIONAL PROCEDURE FOR EVALUATING TIME- AND SPATIAL-DEPENDENT ENERGY DEPOSITION IN AIR FOR ANISOTROPIC NUCLEAR SOURCES: VOL. II, DATA FOR ISOTROPIC GAMMA-RAY SOURCES

Radiation Research Associates, Inc.
Fort Worth, Texas

2 April 1979

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This report describes the RENDER calculational procedure that was developed for use in evaluating the spatial- and time-dependent energy deposition in air produced by anisotropic nuclear sources. The RENDER procedure utilizes nuclear energy deposition data generated for conical sources that were originally computed for line-beam sources through use of the ZAP, ZAPN, ZAPGAM and DEPO codes. The energy deposition data for air that are input to RENDER were generated for neutron and gamma-ray sources and for secondary gamma rays re-

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sulting from neutron capture and inelastic scattering in air. The energy deposition data for line-beam sources and for point isotropic sources were found to compare favorably with similar data reported in the literature. The RENDER procedure was run utilizing energy deposition data from the conical source-data base for a 9-to-10-MeV gamma-ray source and the results of the convolution over source emission direction and time were found to be in good agreement with the input data, indicating that the RENDER procedure performs the time-and-angle convolution correctly.

Volumes II through IV of this report present tabulated data on the time dependent energy deposition in air versus range for neutron and gamma-ray point isotropic sources and for secondary gamma rays generated by point isotropic neutron sources. Also given in Vol. V are curve fit coefficients for use in computing the energy deposition in air versus distance and source emission angle for line beam sources of neutrons and gamma rays. Coefficient data are also given for secondary gamma-ray energy deposition by line beam neutron sources.

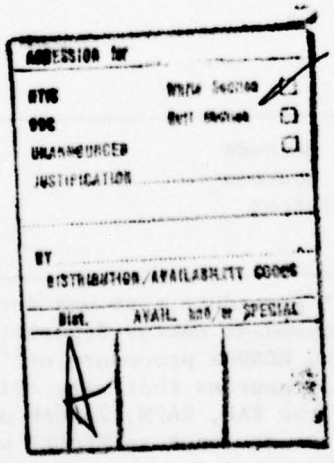


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I. INTRODUCTION

This is the second volume of a five-volume report which presents the results of an extensive parameter study on gamma-ray, neutron and neutron-produced secondary gamma ray energy deposition in a homogeneous medium of air (ρ=1.225X10^{-3}g/cm^3) and describes a computer procedure (RENDER) which was developed to utilize the parametric data when computing the time and spatial distributions of the energy deposition in air for anisotropic nuclear sources.

This volume presents calculated time dependent energy deposition data for point isotropic gamma-ray sources emitting radiation in the source energy intervals listed in Table I. The radial intervals used in storing the energy deposition data are given in Table II. The delay time intervals used to store the energy deposition data are given in Table III. The delay time is the time of energy deposition minus the time of arrival of the uncollided radiation. All source photons were emitted instantaneously by the source. The calculational methods used to compute the energy deposition data are described in Vol. I of this report.

The time dependent energy deposition data in units of keV m^{-3}sec^{-1}/keV of source energy versus radial distance are given in Tables IV through XV. The numbers at the bottom of each column in these tables is the total time dependent energy deposition (keV sec^{-1}/keV of source energy) occurring within 1500 meters from the source. The energy deposition occurring in the 0-to-10^{-20}-second delay-time interval can be taken to be produced by the first-order scattering and absorption interactions undergone by the direct radiation. The gamma-ray energy deposition computed for retarded times greater than 10^{-20} seconds in a given radial interval is that produced by gamma rays that underwent their first-order collision outside of the deposition volume and then underwent second-order or greater collision within the deposition volume.

The time-integrated total energy deposition data versus radial distance and source-energy interval are listed in Table XVI for point-

isotropic gamma-ray sources. The units for the gamma-ray energy deposition data are keV m^{-3}/keV of source energy. The energy deposition data given in Table XVI can be converted to air kerma rate (exposure rate in air ($\rho = 1.225X10^{-3} g/cm^3$) by multiplying the energy deposition data by $4.708X10^{11} \bar{E}_o$ where $\bar{E}_o$ is the average energy in the source energy interval. The units of the resulting air kerma rate are rad hr^{-1}/source photon sec^{-1}.

TABLE I. SOURCE ENERGY INTERVAL BOUNDS USED FOR PRIMARY GAMMA-RAY PROBLEMS

SOURCE ENERGY INTERVALS (MeV)
9.0 - 10.0
8.0 - 9.0
7.0 - 8.0
6.0 - 7.0
5.0 - 6.0
4.0 - 5.0
3.0 - 4.0
2.0 - 3.0
1.0 - 2.0
0.5 - 1.0
0.1 - 0.5
0.01 - 0.1

TABLE II. RADIAL INTERVALS USED IN ENERGY DEPOSITION CALCULATIONS

Radial Interval (m)
0 - 10
10 - 20
20 - 40
40 - 60
60 - 80
80 - 100
100 - 125
125 - 150
150 - 175
175 - 200
200 - 250
250 - 300
300 - 350
350 - 400
400 - 450
450 - 500
500 - 600
600 - 800
800 - 1000
1000 - 1200
1200 - 1500

TABLE III. BOUNDS OF DEPOSITION TIME INTERVALS

DEPOSITION TIME INTERVAL (μsec)
$0 - 10^{-14}$
$10^{-14} - 0.02$
0.02 - 0.05
0.05 - 0.07
0.07 - 0.10
0.10 - 0.15
0.15 - 0.20
0.20 - 0.30
0.30 - 0.50
0.50 - 0.70
0.70 - 1.00
1.00 - 1.50
1.50 - 2.00
2.00 - 3.00
3.00 - 5.00
5.00 - 7.00
7.00 - 10.00

TABLE IV. TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS RADIAL DISTANCE FROM A POINT-ISOTROPIC GAMMA-RAY SOURCE EMITTING UNIFORMLY IN THE ENERGY INTERVAL FROM 0.01 to 0.1 MeV

(keV $m^{-3} sec^{-1}$/keV of source energy)

RADIAL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC) .00E 00 - 1.00E-20	1.00E-20 - 2.00E-08	2.00E-08 - 5.00E-08	5.00E-08 - 7.00E-08	7.00E-08 - 1.00E-07	1.00E-07 - 1.50E-07
.0 - 10.0	3.090E 15	2.761E 02	2.504E 01	1.189E 01	5.515E 00	3.436E 00
10.0 - 20.0	1.838E 14	2.937E 01	7.695E 00	4.688E 00	2.818E 00	1.573E 00
20.0 - 40.0	2.297E 13	5.435E 00	2.095E 00	1.379E 00	1.004E 00	6.745E-01
40.0 - 60.0	4.019E 12	1.305E 00	6.250E-01	4.271E-01	3.553E-01	2.781E-01
60.0 - 80.0	1.236E 12	4.214E-01	2.284E-01	1.867E-01	1.458E-01	1.262E-01
80.0 - 100.0	4.256E 11	1.734E-01	1.092E-01	8.870E-02	7.995E-02	6.590E-02
100.0 - 125.0	1.720E 11	6.910E-02	4.918E-02	4.079E-02	3.804E-02	3.154E-02
125.0 - 150.0	7.295E 10	3.373E-02	2.224E-02	2.010E-02	1.817E-02	1.721E-02
150.0 - 175.0	2.385E 10	1.256E-02	1.055E-02	1.098E-02	9.080E-03	8.980E-03
175.0 - 200.0	1.175E 10	5.270E-03	4.723E-03	4.648E-03	3.665E-03	4.129E-03
200.0 - 250.0	4.312E 09	2.173E-03	2.116E-03	1.659E-03	1.940E-03	1.726E-03
250.0 - 300.0	7.155E 08	7.285E-04	4.552E-04	4.990E-04	5.275E-04	5.680E-04
300.0 - 350.0	1.785E 08	5.920E-05	1.174E-04	1.653E-04	1.849E-04	2.066E-04
350.0 - 400.0	3.911E 07	3.901E-05	4.603E-05	1.636E-05	4.642E-05	3.969E-05
400.0 - 450.0	7.240E 07	4.281E-05	2.745E-05	8.920E-06	1.446E-05	7.810E-06
450.0 - 500.0	.000E 00	7.700E-06	7.780E-06	2.247E-06	4.093E-06	5.020E-06
500.0 - 600.0	.000E 00	2.137E-06	5.010E-07	7.430E-07	1.257E-06	4.059E-07
600.0 - 800.0	.000E 00	.000E 00	.000E 00	.000E 00	.000E 00	.000E 00
800.0 - 1000.0	.000E 00	.000E 00	.000E 00	.000E 00	.000E 00	.000E 00
1000.0 - 1200.0	.000E 00	.000E 00	.000E 00	.000E 00	.000E 00	.000E 00
1200.0 - 1500.0	.000E 00	.000E 00	.000E 00	.000E 00	.000E 00	.000E 00
TOTAL ENERGY DEPOSITION/SEC	3.033E 19	5.759E 06	2.301E 06	1.711E 06	1.394E 06	1.137E 06

TABLE IV. (Continued)

(keV $m^{-3} sec^{-1}$/keV of source energy)

.01 TO 10 MEV GAMMAS

RADIAL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC) 1.50E-07 - 2.00E-07	2.00E-07 - 3.00E-07	3.00E-07 - 5.00E-07	5.00E-07 - 7.00E-07	7.00E-07 - 1.00E-06	1.00E-06 - 1.50E-06
.0 - 10.0	2.073E 00	4.983E-01	2.909E-01	6.415E-02	2.426E-02	1.454E-03
10.0 - 20.0	7.615E-01	4.572E-01	1.898E-01	7.115E-02	2.347E-02	3.838E-03
20.0 - 40.0	4.280E-01	2.564E-01	1.122E-01	4.147E-02	1.792E-02	3.886E-03
40.0 - 60.0	2.224E-01	1.308E-01	6.535E-02	2.893E-02	1.359E-02	3.040E-03
60.0 - 80.0	1.011E-01	7.665E-02	4.236E-02	2.055E-02	9.680E-03	2.639E-03
80.0 - 100.0	5.870E-02	4.631E-02	2.722E-02	1.564E-02	7.115E-03	2.182E-03
100.0 - 125.0	2.686E-02	2.591E-02	1.564E-02	9.310E-03	4.834E-03	1.348E-03
125.0 - 150.0	1.488E-02	1.306E-02	8.955E-03	6.145E-03	2.846E-03	9.570E-04
150.0 - 175.0	8.135E-03	7.150E-03	5.230E-03	3.612E-03	1.974E-03	7.305E-04
175.0 - 200.0	3.742E-03	3.593E-03	3.393E-03	2.270E-03	1.417E-03	4.291E-04
200.0 - 250.0	1.607E-03	1.659E-03	1.434E-03	1.094E-03	6.520E-04	2.306E-04
250.0 - 300.0	5.450E-04	5.515E-04	5.040E-04	4.040E-04	2.438E-04	9.895E-05
300.0 - 350.0	1.973E-04	1.519E-04	1.744E-04	1.495E-04	1.038E-04	4.634E-05
350.0 - 400.0	5.720E-05	6.990E-05	7.465E-05	5.465E-05	4.329E-05	1.869E-05
400.0 - 450.0	1.990E-05	1.468E-05	2.357E-05	1.973E-05	1.658E-05	5.850E-06
450.0 - 500.0	3.717E-06	3.289E-06	7.395E-06	6.325E-06	7.215E-06	2.611E-06
500.0 - 600.0	2.208E-06	7.645E-07	1.821E-06	1.778E-06	1.582E-06	8.755E-07
600.0 - 800.0	2.690E-07	8.950E-08	1.559E-07	2.785E-07	8.690E-08	1.058E-07
800.0 - 1000.0	.000E 00	.000E 00	.000E 00	.000E 00	.000E 00	.000E 00
1000.0 - 1200.0	.000E 00	.000E 00	.000E 00	.000E 00	.000E 00	.000E 00
1200.0 - 1500.0	.000E 00	.000E 00	.000E 00	.000E 00	.000E 00	.000E 00
TOTAL ENERGY DEPOSITION/SEC	9.228E 05	7.271E 05	4.723E 05	2.900E 05	1.553E 05	5.091E 04

TABLE IV. (Continued)

(keV $m^{-3}sec^{-1}$/keV of source energy)

.01 TO .10 MEV GAMMAS

RADIAL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC) 1.50E-06 - 2.00E-06	2.00E-06 - 3.00E-06	3.00E-06 - 5.00E-06	5.00E-06 - 7.00E-06	7.00E-06 - 1.00E-05
.0 - 10.0	2.502E-03	.000E 00	.000E 00	.000E 00	.000E 00
10.0 - 20.0	2.055E-03	.000E 00	.000E 00	.000E 00	.000E 00
20.0 - 40.0	4.722E-04	4.447E-05	.000E 00	.000E 00	.000E 00
40.0 - 60.0	5.190E-04	2.942E-05	1.889E-07	.000E 00	.000E 00
60.0 - 80.0	5.650E-04	3.765E-05	2.500E-07	.000E 00	.000E 00
80.0 - 100.0	3.585E-04	1.373E-05	1.489E-07	.000E 00	.000E 00
100.0 - 125.0	2.237E-04	2.056E-05	2.862E-07	.000E 00	.000E 00
125.0 - 150.0	2.076E-04	1.939E-05	1.427E-08	.000E 00	.000E 00
150.0 - 175.0	1.309E-04	1.183E-05	7.005E-07	.000E 00	.000E 00
175.0 - 200.0	9.545E-05	9.660E-06	2.976E-07	.000E 00	.000E 00
200.0 - 250.0	4.847E-05	4.357E-06	6.845E-08	.000E 00	.000E 00
250.0 - 300.0	1.960E-05	1.252E-06	.000E 00	.000E 00	.000E 00
300.0 - 350.0	1.053E-05	8.955E-07	.000E 00	.000E 00	.000E 00
350.0 - 400.0	2.688E-06	5.470E-07	.000E 00	.000E 00	.000E 00
400.0 - 450.0	2.161E-06	2.353E-07	.000E 00	.000E 00	.000E 00
450.0 - 500.0	7.635E-07	1.005E-07	.000E 00	.000E 00	.000E 00
500.0 - 600.0	2.241E-07	7.060E-09	.000E 00	.000E 00	.000E 00
600.0 - 800.0	3.880E-08	6.885E-09	.000E 00	.000E 00	.000E 00
800.0 - 1000.0	.000E 00	.000E 00	.000E 00	.000E 00	.000E 00
1000.0 - 1200.0	.000E 00	.000E 00	.000E 00	.000E 00	.000E 00
1200.0 - 1500.0	.000E 00	.000E 00	.000E 00	.000E 00	.000E 00
TOTAL ENERGY DEPOSITION/SEC	1.013E 04	8.657E 02	1.326E 01	.000E 00	.000E 00

TABLE V. TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS RADIAL DISTANCE FROM A POINT-ISOTROPIC GAMMA-RAY SOURCE EMITTING UNIFORMLY IN THE ENERGY INTERVAL FROM 0.1 TO 0.5 MeV

(keV $m^{-3} sec^{-1}$/keV of source energy)

RADIAL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC) .00E 00 - 1.00E-20	1.00E-20 - 2.00E-08	2.00E-08 - 5.00E-08	5.00E-08 - 7.00E-08	7.00E-08 - 1.00E-07	1.00E-07 - 1.50E-07
.0 - 10.0	7.455E 14	5.165E 01	2.845E 00	1.339E 00	1.071E 00	3.806E-01
10.0 - 20.0	9.360E 13	1.010E 01	1.361E 00	7.620E-01	6.300E-01	2.891E-01
20.0 - 40.0	1.815E 13	3.032E 00	5.920E-01	3.429E-01	2.188E-01	1.648E-01
40.0 - 60.0	5.225E 12	1.130E 00	2.757E-01	1.553E-01	1.320E-01	9.665E-02
60.0 - 80.0	2.179E 12	5.435E-01	1.778E-01	1.081E-01	7.685E-02	6.300E-02
80.0 - 100.0	9.265E 11	2.646E-01	9.595E-02	6.350E-02	4.844E-02	3.719E-02
100.0 - 125.0	4.571E 11	1.498E-01	5.705E-02	3.905E-02	3.247E-02	2.494E-02
125.0 - 150.0	2.334E 11	8.710E-02	3.363E-02	2.257E-02	1.891E-02	1.425E-02
150.0 - 175.0	1.276E 11	4.289E-02	2.283E-02	1.698E-02	1.172E-02	9.710E-03
175.0 - 200.0	6.475E 10	2.849E-02	1.555E-02	9.685E-03	9.640E-03	6.140E-03
200.0 - 250.0	2.575E 10	1.216E-02	7.330E-03	4.973E-03	3.669E-03	3.880E-03
250.0 - 300.0	9.840E 09	4.476E-03	2.741E-03	2.688E-03	2.171E-03	1.740E-03
300.0 - 350.0	4.095E 09	1.714E-03	1.421E-03	1.472E-03	7.290E-04	7.270E-04
350.0 - 400.0	2.060E 09	5.710E-04	5.380E-04	6.125E-04	4.266E-04	3.212E-04
400.0 - 450.0	6.840E 08	2.843E-04	2.120E-04	3.131E-04	2.229E-04	2.311E-04
450.0 - 500.0	2.981E 08	1.613E-04	1.696E-04	8.320E-05	8.145E-05	9.600E-05
500.0 - 600.0	1.081E 08	4.420E-05	5.240E-05	4.289E-05	4.308E-05	4.572E-05
600.0 - 800.0	2.155E 06	8.865E-06	2.722E-06	5.555E-06	8.545E-06	6.095E-06
800.0 - 1000.0	2.061E 06	.000E 00	.000E 00	5.545E-07	3.761E-07	5.685E-07
1000.0 - 1200.0	.000E 00	.000E 00	.000E 00	.000E 00	.000E 00	.000E 00
1200.0 - 1500.0	.000E 00	.000E 00	.000E 00	.000E 00	.000E 00	.000E 00
TOTAL ENERGY DEPOSITION/SEC	2.495E 19	5.796E 06	2.151E 06	1.520E 06	1.170E 06	9.472E 05

TABLE V. (Continued)

(keV $m^{-3} sec^{-1}$/keV of source energy)

.10 TO 50 MEV GAMMAS
DELAY TIME (SEC)

RADIAL DISTANCE INTERVAL (METERS)	1.50E-07 - 2.00E-07	2.00E-07 - 3.00E-07	3.00E-07 - 5.00E-07	5.00E-07 - 7.00E-07	7.00E-07 - 1.00E-06	1.00E-06 - 1.50E-06
.0 - 10.0	4.108E-01	2.092E-01	4.134E-02	6.205E-02	6.755E-03	1.022E-02
10.0 - 20.0	2.016E-01	1.044E-01	4.076E-02	3.258E-02	1.344E-02	7.475E-03
20.0 - 40.0	1.061E-01	6.730E-02	3.850E-02	2.245E-02	1.197E-02	5.875E-03
40.0 - 60.0	6.355E-02	4.346E-02	2.583E-02	1.602E-02	9.610E-03	4.527E-03
60.0 - 80.0	4.436E-02	3.097E-02	1.930E-02	1.147E-02	7.460E-03	3.866E-03
80.0 - 100.0	2.668E-02	2.097E-02	1.373E-02	8.560E-03	6.085E-03	3.021E-03
100.0 - 125.0	1.799E-02	1.451E-02	9.455E-03	6.785E-03	4.501E-03	2.536E-03
125.0 - 150.0	1.189E-02	9.305E-03	6.325E-03	5.020E-03	3.286E-03	2.004E-03
150.0 - 175.0	8.415E-03	6.785E-03	4.625E-03	3.205E-03	2.540E-03	1.440E-03
175.0 - 200.0	5.360E-03	4.456E-03	3.490E-03	2.515E-03	1.837E-03	1.129E-03
200.0 - 250.0	2.804E-03	2.426E-03	1.918E-03	1.453E-03	1.081E-03	6.910E-04
250.0 - 300.0	1.501E-03	1.190E-03	9.675E-04	7.415E-04	6.230E-04	3.984E-04
300.0 - 350.0	6.155E-04	5.990E-04	4.795E-04	3.877E-04	3.255E-04	2.116E-04
350.0 - 400.0	4.308E-04	3.254E-04	2.210E-04	2.056E-04	1.682E-04	1.186E-04
400.0 - 450.0	1.668E-04	1.304E-04	1.217E-04	9.880E-05	8.860E-05	6.160E-05
450.0 - 500.0	8.525E-05	7.120E-05	6.000E-05	5.610E-05	4.365E-05	3.671E-05
500.0 - 600.0	4.576E-05	2.826E-05	3.040E-05	2.551E-05	1.959E-05	1.548E-05
600.0 - 800.0	7.160E-06	5.070E-06	4.418E-06	3.553E-06	3.594E-06	2.786E-06
800.0 - 1000.0	.000E 00	1.788E-07	4.128E-07	1.354E-07	1.510E-07	1.732E-07
1000.0 - 1200.0	.000E 00	3.371E-08	7.605E-08	.000E 00	1.106E-08	1.122E-08
1200.0 - 1500.0	.000E 00	.000E 00	.000E 00	.000E 00	.000E 00	6.490E-09
TOTAL ENERGY DEPOSITION/SEC	7.519E 05	5.930E 05	4.306E 05	3.191E 05	2.393E 05	1.496E 05

TABLE V. (Continued)

(keV m^{-3} sec^{-1}/keV of source Energy)

.10 TO .50 MEV GAMMAS

RADIAL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC) 1.50E-06 - 2.00E-06	2.00E-06 - 3.00E-06	3.00E-06 - 5.00E-06	5.00E-06 - 7.00E-06	7.00E-06 - 1.00E-05
.0 - 10.0	3.245E-03	1.498E-04	3.860E-05	.000E 00	.000E 00
10.0 - 20.0	4.635E-03	5.620E-04	1.161E-05	.000E 00	.000E 00
20.0 - 40.0	2.481E-03	5.475E-04	4.166E-05	.000E 00	.000E 00
40.0 - 60.0	1.594E-03	4.159E-04	3.637E-05	.000E 00	.000E 00
60.0 - 80.0	1.280E-03	4.091E-04	1.580E-05	1.993E-07	.000E 00
80.0 - 100.0	1.136E-03	3.160E-04	2.449E-05	4.312E-08	.000E 00
100.0 - 125.0	1.019E-03	2.392E-04	1.534E-05	.000E 00	.000E 00
125.0 - 150.0	8.400E-04	2.033E-04	9.155E-06	9.635E-08	.000E 00
150.0 - 175.0	6.025E-04	1.565E-04	7.890E-06	5.380E-08	.000E 00
175.0 - 200.0	4.759E-04	1.227E-04	6.900E-06	8.500E-09	.000E 00
200.0 - 250.0	3.150E-04	8.425E-05	4.739E-06	4.181E-10	.000E 00
250.0 - 300.0	1.851E-04	4.917E-05	2.558E-06	6.285E-10	.000E 00
300.0 - 350.0	1.096E-04	3.044E-05	1.448E-06	3.299E-10	.000E 00
350.0 - 400.0	5.765E-05	1.780E-05	8.335E-07	.000E 00	.000E 00
400.0 - 450.0	3.192E-05	9.875E-06	3.431E-07	.000E 00	.000E 00
450.0 - 500.0	1.950E-05	5.575E-06	3.216E-07	.000E 00	.000E 00
500.0 - 600.0	9.800E-06	2.633E-06	1.547E-07	.000E 00	.000E 00
600.0 - 800.0	1.898E-06	6.275E-07	2.828E-08	.000E 00	.000E 00
800.0 - 1000.0	1.149E-07	4.282E-08	5.590E-09	.000E 00	.000E 00
1000.0 - 1200.0	1.045E-08	1.264E-09	4.067E-10	.000E 00	.000E 00
1200.0 - 1500.0	4.062E-09	3.426E-11	.000E 00	.000E 00	.000E 00
TOTAL ENERGY DEPOSITION/SEC	6.904E 04	1.881E 04	9.954E 02	1.515E 00	.000E 00

TABLE VI. TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS RADIAL DISTANCE FROM A POINT-ISOTROPIC GAMMA-RAY SOURCE EMITTING UNIFORMLY IN THE ENERGY INTERVAL FROM 0.5 to 1.0 MeV

(keV $m^{-3} sec^{-1}$/keV of source energy)

RADIAL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC) .00E 00 - 1.00E-20	1.00E-20 - 2.00E-08	2.00E-08 - 5.00E-08	5.00E-08 - 7.00E-08	7.00E-08 - 1.00E-07	1.00E-07 - 1.50E-07
.0 - 10.0	8.095E 14	2.430E 01	1.956E-01	1.338E-01	1.649E-02	2.673E-02
10.0 - 20.0	1.006E 14	5.815E 00	1.776E-01	9.730E-02	1.199E-01	9.980E-02
20.0 - 40.0	2.146E 13	2.670E 00	2.228E-01	9.735E-02	6.950E-02	5.730E-02
40.0 - 60.0	6.970E 12	1.155E 00	1.844E-01	6.090E-02	6.185E-02	3.525E-02
60.0 - 80.0	2.894E 12	4.895E-01	1.110E-01	5.080E-02	3.655E-02	2.096E-02
80.0 - 100.0	1.524E 12	2.911E-01	6.750E-02	3.864E-02	2.493E-02	1.727E-02
100.0 - 125.0	7.720E 11	1.924E-01	4.844E-02	3.033E-02	1.845E-02	1.324E-02
125.0 - 150.0	3.925E 11	1.147E-01	3.754E-02	2.085E-02	1.568E-02	9.775E-03
150.0 - 175.0	2.348E 11	6.410E-02	2.688E-02	1.361E-02	1.020E-02	7.380E-03
175.0 - 200.0	1.356E 11	4.026E-02	1.718E-02	1.107E-02	6.875E-03	5.190E-03
200.0 - 250.0	6.950E 10	1.964E-02	8.940E-03	5.600E-03	4.116E-03	3.192E-03
250.0 - 300.0	3.174E 10	1.072E-02	4.580E-03	3.108E-03	2.549E-03	1.731E-03
300.0 - 350.0	1.486E 10	6.375E-03	2.587E-03	1.908E-03	1.584E-03	1.110E-03
350.0 - 400.0	5.785E 09	2.973E-03	1.633E-03	1.077E-03	6.940E-04	6.395E-04
400.0 - 450.0	3.080E 09	2.085E-03	9.315E-04	5.285E-04	4.912E-04	3.133E-04
450.0 - 500.0	2.478E 09	1.063E-03	4.817E-04	3.596E-04	2.946E-04	2.493E-04
500.0 - 600.0	8.140E 08	4.283E-04	2.468E-04	1.990E-04	1.316E-04	1.258E-04
600.0 - 800.0	9.045E 07	7.495E-05	4.673E-05	3.829E-05	3.579E-05	2.691E-05
800.0 - 1000.0	1.986E 07	8.545E-06	5.200E-06	5.290E-06	1.350E-06	4.706E-06
1000.0 - 1200.0	1.031E 06	4.232E-07	6.145E-07	4.755E-07	6.535E-08	2.720E-07
1200.0 - 1500.0	1.107E 06	.000E 00	2.734E-07	2.856E-07	3.620E-08	4.567E-08
TOTAL ENERGY DEPOSITION/SEC	3.780E 19	7.753E 06	2.443E 06	1.486E 06	1.098E 06	8.080E 05

TABLE VI. (Continued)

(keV $m^{-3} sec^{-1}$/keV of source energy)

.50 TO 1.00 MEV GAMMAS

RADIAL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC) 1.50E-07 - 2.00E-07	2.00E-07 - 3.00E-07	3.00E-07 - 5.00E-07	5.00E-07 - 7.00E-07	7.00E-07 - 1.00E-06	1.00E-06 - 1.50E-06
.0 - 10.0	6.180E-02	4.653E-02	2.279E-02	4.410E-03	9.530E-04	2.598E-03
10.0 - 20.0	4.362E-02	4.180E-02	2.147E-02	8.910E-03	3.269E-03	1.611E-03
20.0 - 40.0	3.831E-02	2.241E-02	1.119E-02	5.020E-03	2.502E-03	1.772E-03
40.0 - 60.0	2.192E-02	1.429E-02	7.635E-03	4.299E-03	2.492E-03	1.382E-03
60.0 - 80.0	1.538E-02	1.000E-02	6.705E-03	3.308E-03	2.497E-03	1.389E-03
80.0 - 100.0	1.130E-02	8.980E-03	4.685E-03	3.062E-03	1.939E-03	1.120E-03
100.0 - 125.0	8.405E-03	6.800E-03	3.720E-03	2.526E-03	1.537E-03	8.535E-04
125.0 - 150.0	7.800E-03	4.288E-03	2.882E-03	1.749E-03	1.131E-03	7.010E-04
150.0 - 175.0	5.335E-03	3.370E-03	2.101E-03	1.337E-03	9.505E-04	5.955E-04
175.0 - 200.0	3.444E-03	2.605E-03	1.670E-03	1.034E-03	7.325E-04	4.779E-04
200.0 - 250.0	2.053E-03	1.718E-03	1.068E-03	7.085E-04	4.982E-04	3.399E-04
250.0 - 300.0	1.174E-03	8.865E-04	6.500E-04	4.284E-04	3.207E-04	2.139E-04
300.0 - 350.0	8.355E-04	5.260E-04	3.873E-04	2.715E-04	1.868E-04	1.308E-04
350.0 - 400.0	4.474E-04	3.475E-04	2.206E-04	1.780E-04	1.332E-04	8.165E-05
400.0 - 450.0	2.703E-04	2.021E-04	1.516E-04	1.098E-04	8.010E-05	5.460E-05
450.0 - 500.0	2.007E-04	1.178E-04	9.270E-05	6.060E-05	4.836E-05	3.382E-05
500.0 - 600.0	9.250E-05	5.950E-05	4.193E-05	3.022E-05	2.442E-05	1.778E-05
600.0 - 800.0	1.929E-05	1.769E-05	1.209E-05	7.980E-06	6.045E-06	4.526E-06
800.0 - 1000.0	4.031E-06	2.632E-06	1.326E-06	9.815E-07	6.420E-07	6.595E-07
1000.0 - 1200.0	7.165E-07	3.481E-07	2.140E-07	1.376E-07	1.555E-07	1.152E-07
1200.0 - 1500.0	1.284E-07	5.075E-08	5.195E-08	5.285E-08	1.899E-08	5.365E-09
TOTAL ENERGY DEPOSITION/SEC	5.755E 05	4.100E 05	2.695E 05	1.797E 05	1.283E 05	8.528E 04

TABLE VI. (Continued)

(keV $m^{-3}sec^{-1}$/keV of source energy)

.50 TO 1.00 MEV GAMMAS

RADIAL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC) 1.50E-06 - 2.00E-06	2.00E-06 - 3.00E-06	3.00E-06 - 5.00E-06	5.00E-06 - 7.00E-06	7.00E-06 - 1.00E-05
.0 - 10.0	8.520E-04	4.107E-04	1.187E-06	.000E 00	.000E 00
10.0 - 20.0	1.596E-03	3.738E-04	2.102E-05	.000E 00	.000E 00
20.0 - 40.0	1.038E-03	2.797E-04	3.228E-05	.000E 00	.000E 00
40.0 - 60.0	6.990E-04	2.317E-04	2.296E-05	.000E 00	.000E 00
60.0 - 80.0	5.995E-04	2.067E-04	1.663E-05	7.775E-09	.000E 00
80.0 - 100.0	5.190E-04	1.819E-04	1.720E-05	1.364E-08	.000E 00
100.0 - 125.0	4.916E-04	1.489E-04	1.230E-05	3.396E-08	.000E 00
125.0 - 150.0	3.935E-04	1.390E-04	1.045E-05	2.709E-08	.000E 00
150.0 - 175.0	3.142E-04	1.104E-04	8.265E-06	6.535E-08	.000E 00
175.0 - 200.0	2.619E-04	9.280E-05	8.855E-06	3.805E-08	.000E 00
200.0 - 250.0	2.016E-04	6.610E-05	5.930E-06	6.100E-08	.000E 00
250.0 - 300.0	1.267E-04	4.434E-05	4.323E-06	4.999E-08	.000E 00
300.0 - 350.0	7.910E-05	3.258E-05	2.680E-06	7.270E-09	.000E 00
350.0 - 400.0	5.440E-05	2.037E-05	2.032E-06	4.518E-10	.000E 00
400.0 - 450.0	3.289E-05	1.286E-05	1.177E-06	1.233E-09	.000E 00
450.0 - 500.0	2.075E-05	8.215E-06	8.275E-07	2.147E-09	.000E 00
500.0 - 600.0	1.073E-05	3.834E-06	3.861E-07	2.930E-09	.000E 00
600.0 - 800.0	2.911E-06	1.167E-06	1.156E-07	1.054E-09	.000E 00
800.0 - 1000.0	4.258E-07	1.635E-07	1.483E-08	7.105E-12	.000E 00
1000.0 - 1200.0	5.795E-08	2.848E-08	2.310E-09	.000E 00	.000E 00
1200.0 - 1500.0	7.905E-09	2.422E-09	8.105E-11	.000E 00	.000E 00
TOTAL ENERGY DEPOSITION/SEC	5.039E 04	1.839E 04	1.690E 03	9.035E 00	.000E 00

TABLE VII. TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS RADIAL DISTANCE FROM A POINT-ISOTROPIC GAMMA-RAY SOURCE EMITTING UNIFORMLY IN THE ENERGY INTERVAL FROM 1.0 to 2.0 MeV

(keV $m^{-3} sec^{-1}$/keV of source energy)

RADIAL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC) .00E 00 - 1.00E-20	1.00E-20 - 2.00E-08	2.00E-08 - 5.00E-08	5.00E-08 - 7.00E-08	7.00E-08 - 1.00E-07	1.00E-07 - 1.50E-07
.0 - 10.0	7.085E 14	2.955E 01	3.558E-01	1.451E-01	6.340E-02	2.995E-02
10.0 - 20.0	9.190E 13	5.300E 00	1.373E-01	7.675E-02	6.090E-02	3.200E-02
20.0 - 40.0	2.133E 13	1.752E 00	1.041E-01	3.721E-02	2.846E-02	1.425E-02
40.0 - 60.0	6.765E 12	8.110E-01	8.650E-02	2.758E-02	2.271E-02	1.502E-02
60.0 - 80.0	3.173E 12	4.403E-01	5.625E-02	2.513E-02	1.321E-02	1.031E-02
80.0 - 100.0	1.501E 12	2.738E-01	3.523E-02	2.053E-02	1.028E-02	8.900E-03
100.0 - 125.0	8.725E 11	1.621E-01	2.934E-02	1.668E-02	1.064E-02	5.980E-03
125.0 - 150.0	4.912E 11	1.046E-01	2.722E-02	1.103E-02	6.255E-03	5.320E-03
150.0 - 175.0	3.078E 11	6.975E-02	1.799E-02	9.760E-03	6.260E-03	2.578E-03
175.0 - 200.0	1.921E 11	5.060E-02	1.292E-02	7.565E-03	4.775E-03	2.881E-03
200.0 - 250.0	1.110E 11	3.006E-02	8.925E-03	4.435E-03	3.216E-03	1.983E-03
250.0 - 300.0	5.115E 10	1.523E-02	5.640E-03	2.580E-03	2.265E-03	1.338E-03
300.0 - 350.0	3.126E 10	8.535E-03	3.253E-03	2.179E-03	1.452E-03	9.800E-04
350.0 - 400.0	1.437E 10	5.235E-03	2.045E-03	1.357E-03	8.215E-04	6.410E-04
400.0 - 450.0	8.010E 09	3.224E-03	1.256E-03	7.200E-04	6.555E-04	3.713E-04
450.0 - 500.0	4.288E 09	1.922E-03	9.745E-04	4.734E-04	4.547E-04	2.604E-04
500.0 - 600.0	2.644E 09	8.635E-04	4.398E-04	2.846E-04	2.447E-04	1.699E-04
600.0 - 800.0	5.810E 08	2.589E-04	1.513E-04	8.420E-05	9.285E-05	5.355E-05
800.0 - 1000.0	1.089E 08	3.699E-05	2.755E-05	2.212E-05	1.821E-05	1.612E-05
1000.0 - 1200.0	1.107E 07	5.765E-06	4.173E-06	9.240E-06	3.733E-06	3.617E-06
1200.0 - 1500.0	4.551E 06	9.125E-07	1.414E-06	7.695E-07	1.416E-06	5.040E-07
TOTAL ENERGY DEPOSITION/SEC	4.594E 19	8.826E 06	2.464E 06	1.369E 06	1.031E 06	6.605E 05

TABLE VII. (Continued)

(keV m^{-3} sec^{-1}/keV of source energy)

1.00 TO 2.00 MEV GAMMAS

RADIAL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC) 1.50E-07 - 2.00E-07	2.00E-07 - 3.00E-07	3.00E-07 - 5.00E-07	5.00E-07 - 7.00E-07	7.00E-07 - 1.00E-06	1.00E-06 - 1.50E-06
.0 - 10.0	3.694E-02	2.792E-03	.000E 00	1.581E-03	.000E 00	3.907E-04
10.0 - 20.0	1.634E-02	1.225E-02	3.794E-03	2.026E-04	5.505E-04	6.640E-04
20.0 - 40.0	1.470E-02	9.520E-03	3.663E-03	1.118E-03	6.870E-04	7.150E-04
40.0 - 60.0	9.990E-03	5.005E-03	3.367E-03	1.616E-03	9.905E-04	5.660E-04
60.0 - 80.0	6.680E-03	4.334E-03	2.502E-03	1.277E-03	7.760E-04	4.046E-04
80.0 - 100.0	5.090E-03	3.131E-03	1.933E-03	1.183E-03	7.115E-04	3.574E-04
100.0 - 125.0	4.144E-03	2.692E-03	1.482E-03	8.725E-04	6.330E-04	3.782E-04
125.0 - 150.0	3.811E-03	1.757E-03	1.217E-03	7.805E-04	4.789E-04	3.113E-04
150.0 - 175.0	2.786E-03	1.591E-03	9.660E-04	6.215E-04	4.121E-04	2.652E-04
175.0 - 200.0	2.449E-03	1.360E-03	7.905E-04	4.599E-04	3.213E-04	2.026E-04
200.0 - 250.0	1.535E-03	9.635E-04	5.790E-04	3.469E-04	2.385E-04	1.608E-04
250.0 - 300.0	9.825E-04	6.165E-04	3.609E-04	2.412E-04	1.712E-04	1.095E-04
300.0 - 350.0	7.135E-04	4.570E-04	2.505E-04	1.590E-04	1.124E-04	7.270E-05
350.0 - 400.0	4.408E-04	3.115E-04	1.796E-04	1.153E-04	7.975E-05	4.801E-05
400.0 - 450.0	2.401E-04	1.895E-04	1.173E-04	7.850E-05	5.300E-05	3.504E-05
450.0 - 500.0	1.805E-04	1.433E-04	7.420E-05	5.050E-05	3.676E-05	2.528E-05
500.0 - 600.0	1.096E-04	6.700E-05	4.077E-05	2.977E-05	1.904E-05	1.225E-05
600.0 - 800.0	3.781E-05	3.109E-05	1.681E-05	9.970E-06	7.400E-06	4.925E-06
800.0 - 1000.0	9.880E-06	6.550E-06	3.789E-06	2.935E-06	1.655E-06	1.056E-06
1000.0 - 1200.0	2.749E-06	2.160E-06	1.284E-06	6.550E-07	5.710E-07	2.820E-07
1200.0 - 1500.0	7.040E-07	3.364E-07	2.530E-07	2.029E-07	1.023E-07	7.535E-08
TOTAL ENERGY DEPOSITION/SEC	4.759E 05	3.134E 05	1.820E 05	1.162E 05	7.939E 04	5.091E 04

TABLE VII. (Continued)

(keV $m^{-3}sec^{-1}$/keV of source energy)

1.00 TO 2.00 MEV GAMMAS

RADIAL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC) 1.50E-06 - 2.00E-06	2.00E-06 - 3.00E-06	3.00E-06 - 5.00E-06	5.00E-06 - 7.00E-06	7.00E-06 - 1.00E-05
.0 - 10.0	.000E 00	7.520E-05	.000E 00	.000E 00	.000E 00
10.0 - 20.0	2.882E-04	8.790E-05	7.835E-06	.000E 00	.000E 00
20.0 - 40.0	2.417E-04	1.251E-04	1.219E-05	2.047E-06	.000E 00
40.0 - 60.0	2.693E-04	1.257E-04	1.045E-05	6.735E-07	.000E 00
60.0 - 80.0	2.419E-04	9.505E-05	1.093E-05	8.380E-07	.000E 00
80.0 - 100.0	2.070E-04	8.645E-05	1.098E-05	3.996E-08	.000E 00
100.0 - 125.0	2.048E-04	7.420E-05	8.635E-06	7.825E-08	3.688E-09
125.0 - 150.0	1.612E-04	5.475E-05	9.180E-06	1.635E-07	.000E 00
150.0 - 175.0	1.352E-04	5.150E-05	6.045E-06	5.100E-08	.000E 00
175.0 - 200.0	1.110E-04	4.731E-05	5.455E-06	1.308E-07	.000E 00
200.0 - 250.0	8.820E-05	3.560E-05	4.206E-06	1.340E-07	.000E 00
250.0 - 300.0	6.535E-05	2.648E-05	2.959E-06	8.100E-08	.000E 00
300.0 - 350.0	4.612E-05	1.782E-05	2.234E-06	4.414E-08	.000E 00
350.0 - 400.0	3.088E-05	1.272E-05	1.512E-06	4.768E-08	.000E 00
400.0 - 450.0	2.244E-05	9.405E-06	1.174E-06	2.545E-08	.000E 00
450.0 - 500.0	1.540E-05	6.045E-06	7.515E-07	1.698E-08	.000E 00
500.0 - 600.0	9.235E-06	3.664E-06	4.412E-07	8.490E-09	.000E 00
600.0 - 800.0	2.880E-06	1.289E-06	1.549E-07	1.723E-09	.000E 00
800.0 - 1000.0	7.505E-07	3.469E-07	3.867E-08	1.224E-09	.000E 00
1000.0 - 1200.0	1.814E-07	8.760E-08	1.041E-08	3.329E-10	.000E 00
1200.0 - 1500.0	3.573E-08	1.791E-08	1.660E-09	.000E 00	.000E 00
TOTAL ENERGY DEPOSITION/SEC	3.098E 04	1.271E 04	1.526E 03	3.467E 01	1.472E-02

TABLE VIII. TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS RADIAL DISTANCE FROM A POINT ISOTROPIC GAMMA-RAY SOURCE EMITTING UNIFORMLY IN THE ENERGY INTERVAL FROM 2.0 to 3.0 MeV

(keV m^{-3} sec^{-1}/keV of source energy)

RADIAL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC) .00E 00 - 1.00E-20	1.00E-20 - 2.00E-08	2.00E-08 - 5.00E-08	5.00E-08 - 7.00E-08	7.00E-08 - 1.00E-07	1.00E-07 - 1.50E-07
.0 - 10.0	5.560E 14	2.799E 01	1.190E-01	3.502E-02	.000E 00	2.651E-02
10.0 - 20.0	7.950E 13	3.972E 00	8.485E-02	6.950E-02	2.051E-02	2.799E-02
20.0 - 40.0	1.818E 13	1.358E 00	6.995E-02	2.646E-02	1.433E-02	1.067E-02
40.0 - 60.0	6.405E 12	5.430E-01	4.715E-02	1.630E-02	1.086E-02	6.085E-03
60.0 - 80.0	3.164E 12	3.611E-01	2.444E-02	1.564E-02	9.010E-03	4.853E-03
80.0 - 100.0	1.604E 12	1.921E-01	1.845E-02	9.865E-03	6.420E-03	4.043E-03
100.0 - 125.0	8.575E 11	1.364E-01	1.684E-02	8.540E-03	5.255E-03	2.899E-03
125.0 - 150.0	5.305E 11	9.375E-02	1.303E-02	5.540E-03	3.741E-03	2.190E-03
150.0 - 175.0	3.368E 11	5.140E-02	1.063E-02	5.320E-03	3.211E-03	1.848E-03
175.0 - 200.0	2.266E 11	4.834E-02	8.615E-03	4.312E-03	2.765E-03	1.672E-03
200.0 - 250.0	1.321E 11	3.120E-02	5.905E-03	2.935E-03	2.203E-03	1.134E-03
250.0 - 300.0	6.615E 10	1.719E-02	3.994E-03	2.029E-03	1.074E-03	9.625E-04
300.0 - 350.0	3.987E 10	1.098E-02	3.057E-03	1.691E-03	8.925E-04	6.600E-04
350.0 - 400.0	2.171E 10	5.890E-03	2.265E-03	1.219E-03	8.060E-04	4.499E-04
400.0 - 450.0	1.495E 10	4.160E-03	1.349E-03	9.495E-04	4.982E-04	3.394E-04
450.0 - 500.0	9.390E 09	2.873E-03	7.535E-04	4.551E-04	3.615E-04	2.570E-04
500.0 - 600.0	4.637E 09	1.598E-03	6.410E-04	3.860E-04	2.369E-04	1.487E-04
600.0 - 800.0	1.588E 09	5.325E-04	2.056E-04	1.472E-04	1.068E-04	7.975E-05
800.0 - 1000.0	2.914E 08	1.006E-04	6.420E-05	4.468E-05	3.630E-05	2.344E-05
1000.0 - 1200.0	5.830E 07	3.233E-05	1.739E-05	1.253E-05	7.965E-06	1.022E-05
1200.0 - 1500.0	2.030E 07	9.035E-06	3.379E-06	5.195E-06	3.645E-06	2.240E-06
TOTAL ENERGY DEPOSITION/SEC	5.172E 19	9.387E 06	2.196E 06	1.296E 06	8.422E 05	5.710E 05

TABLE VIII. (Continued)

(keV m^{-3} sec^{-1}/keV of source energy)

RADIAL DISTANCE INTERVAL (METERS)	2.00 TO 3.00 MEV GAMMAS DELAY TIME (SEC) 1.50E-07 - 2.00E-07	2.00E-07 - 3.00E-07	3.00E-07 - 5.00E-07	5.00E-07 - 7.00E-07	7.00E-07 - 1.00E-06	1.00E-06 - 1.50E-06
.0 - 10.0	.000E 00	1.265E-02	.000E 00	4.233E-03	1.018E-03	.000E 00
10.0 - 20.0	2.846E-02	6.830E-03	2.753E-03	1.741E-03	5.805E-04	1.867E-04
20.0 - 40.0	7.240E-03	5.255E-03	2.486E-03	1.123E-03	6.180E-04	3.361E-04
40.0 - 60.0	4.317E-03	2.747E-03	1.708E-03	8.835E-04	4.396E-04	2.573E-04
60.0 - 80.0	3.635E-03	2.123E-03	1.401E-03	8.295E-04	4.070E-04	2.318E-04
80.0 - 100.0	3.294E-03	2.002E-03	9.145E-04	7.105E-04	3.331E-04	1.920E-04
100.0 - 125.0	2.273E-03	1.333E-03	8.890E-04	4.186E-04	2.931E-04	1.559E-04
125.0 - 150.0	1.484E-03	1.029E-03	6.145E-04	3.742E-04	2.561E-04	1.509E-04
150.0 - 175.0	1.206E-03	9.705E-04	4.767E-04	3.063E-04	2.016E-04	1.283E-04
175.0 - 200.0	1.083E-03	7.175E-04	3.571E-04	2.806E-04	1.872E-04	1.021E-04
200.0 - 250.0	9.040E-04	4.847E-04	3.186E-04	1.912E-04	1.287E-04	8.525E-05
250.0 - 300.0	5.560E-04	3.547E-04	2.466E-04	1.304E-04	9.215E-05	6.085E-05
300.0 - 350.0	4.502E-04	2.210E-04	1.541E-04	8.770E-05	6.125E-05	4.111E-05
350.0 - 400.0	3.179E-04	1.943E-04	1.260E-04	6.270E-05	4.646E-05	3.040E-05
400.0 - 450.0	2.231E-04	1.487E-04	7.855E-05	5.785E-05	3.265E-05	2.135E-05
450.0 - 500.0	1.704E-04	1.080E-04	6.135E-05	3.673E-05	2.527E-05	1.699E-05
500.0 - 600.0	9.870E-05	7.315E-05	3.658E-05	2.535E-05	1.512E-05	1.003E-05
600.0 - 800.0	4.819E-05	3.470E-05	1.702E-05	1.014E-05	6.720E-06	4.135E-06
800.0 - 1000.0	1.321E-05	1.142E-05	5.845E-06	3.381E-06	2.042E-06	1.288E-06
1000.0 - 1200.0	4.821E-06	3.163E-06	1.815E-06	1.172E-06	7.510E-07	4.106E-07
1200.0 - 1500.0	1.743E-06	9.035E-07	5.970E-07	2.503E-07	1.984E-07	1.218E-07
TOTAL ENERGY DEPOSITION/SEC	3.705E 05	2.440E 05	1.381E 05	8.284E 04	5.398E 04	3.420E 04

TABLE VIII. (Continued)

($keV\ m^{-3}\ sec^{-1}$/keV of source energy)

2.00 TO 3.00 MEV GAMMAS

RADIAL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC) 1.50E-06 - 2.00E-06	2.00E-06 - 3.00E-06	3.00E-06 - 5.00E-06	5.00E-06 - 7.00E-06	7.00E-06 - 1.00E-05
.0 - 10.0	7.540E-07	4.068E-04	7.165E-06	.000E 00	.000E 00
10.0 - 20.0	6.760E-05	6.245E-05	1.199E-05	.000E 00	.000E 00
20.0 - 40.0	1.511E-04	7.770E-05	7.650E-06	1.574E-06	.000E 00
40.0 - 60.0	1.018E-04	3.794E-05	6.835E-06	1.246E-06	.000E 00
60.0 - 80.0	1.221E-04	4.577E-05	8.350E-06	2.993E-07	2.063E-09
80.0 - 100.0	8.700E-05	4.049E-05	6.845E-06	1.865E-07	.000E 00
100.0 - 125.0	9.425E-05	4.064E-05	5.050E-06	1.234E-07	4.792E-08
125.0 - 150.0	8.740E-05	3.534E-05	5.035E-06	1.934E-07	.000E 00
150.0 - 175.0	7.430E-05	3.226E-05	3.987E-06	4.483E-08	.000E 00
175.0 - 200.0	6.275E-05	2.532E-05	3.880E-06	8.855E-08	.000E 00
200.0 - 250.0	4.787E-05	2.249E-05	2.886E-06	1.191E-07	.000E 00
250.0 - 300.0	3.353E-05	1.432E-05	2.053E-06	8.780E-08	1.704E-10
300.0 - 350.0	2.457E-05	1.009E-05	1.569E-06	7.525E-08	1.413E-10
350.0 - 400.0	1.817E-05	7.695E-06	9.035E-07	2.711E-08	.000E 00
400.0 - 450.0	1.389E-05	5.310E-06	8.290E-07	2.421E-08	.000E 00
450.0 - 500.0	9.435E-06	4.203E-06	6.390E-07	7.835E-09	.000E 00
500.0 - 600.0	5.985E-06	2.761E-06	4.157E-07	1.384E-08	.000E 00
600.0 - 800.0	2.507E-06	1.230E-06	1.800E-07	6.960E-09	.000E 00
800.0 - 1000.0	8.005E-07	3.648E-07	5.110E-08	1.674E-09	.000E 00
1000.0 - 1200.0	2.276E-07	1.304E-07	1.850E-08	5.360E-10	.000E 00
1200.0 - 1500.0	7.665E-08	3.812E-08	7.090E-09	3.108E-11	.000E 00
TOTAL ENERGY DEPOSITION/SEC	2.017E 04	9.043E 03	1.308E 03	4.334E 01	2.114E-01

TABLE IX. TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS RADIAL DISTANCE FROM A POINT-ISOTROPIC GAMMA-RAY SOURCE EMITTING UNIFORMLY IN THE ENERGY INTERVAL FROM 3.0 TO 4.0 MeV

(keV $m^{-3} sec^{-1}$/keV of source energy)

RADIAL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC) .00E 00 - 1.00E-20	1.00E-20 - 2.00E-08	2.00E-08 - 5.00E-08	5.00E-08 - 7.00E-08	7.00E-08 - 1.00E-07	1.00E-07 - 1.50E-07
.0 - 10.0	5.375E 14	1.971E 01	.000E 00	7.210E-02	3.304E-02	3.340E-03
10.0 - 20.0	6.790E 13	3.726E 00	6.365E-02	2.330E-02	1.350E-02	8.405E-03
20.0 - 40.0	1.744E 13	8.870E-01	3.583E-02	1.543E-02	9.010E-03	5.170E-03
40.0 - 60.0	5.620E 12	4.351E-01	2.686E-02	5.915E-03	6.110E-03	4.692E-03
60.0 - 80.0	2.764E 12	2.744E-01	2.066E-02	8.725E-03	7.050E-03	3.937E-03
80.0 - 100.0	1.507E 12	1.824E-01	1.633E-02	5.970E-03	3.104E-03	2.496E-03
100.0 - 125.0	8.285E 11	9.770E-02	1.190E-02	5.675E-03	3.457E-03	1.781E-03
125.0 - 150.0	5.730E 11	7.615E-02	9.570E-03	4.031E-03	2.820E-03	1.650E-03
150.0 - 175.0	3.751E 11	5.870E-02	7.470E-03	3.581E-03	2.572E-03	1.517E-03
175.0 - 200.0	2.693E 11	3.825E-02	7.035E-03	2.719E-03	1.940E-03	1.190E-03
200.0 - 250.0	1.407E 11	2.839E-02	4.499E-03	2.567E-03	1.374E-03	7.845E-04
250.0 - 300.0	7.275E 10	1.579E-02	3.236E-03	2.039E-03	9.595E-04	5.650E-04
300.0 - 350.0	4.455E 10	1.089E-02	2.147E-03	1.438E-03	7.890E-04	5.145E-04
350.0 - 400.0	2.732E 10	5.750E-03	1.865E-03	8.470E-04	6.100E-04	3.573E-04
400.0 - 450.0	1.673E 10	5.225E-03	1.220E-03	6.370E-04	5.200E-04	2.491E-04
450.0 - 500.0	1.281E 10	3.098E-03	8.900E-04	3.978E-04	3.247E-04	1.944E-04
500.0 - 600.0	7.055E 09	1.974E-03	4.992E-04	3.319E-04	2.448E-04	1.490E-04
600.0 - 800.0	2.160E 09	6.600E-04	2.461E-04	1.489E-04	1.095E-04	7.652E-05
800.0 - 1000.0	5.095E 08	1.881E-04	1.018E-04	6.460E-05	2.957E-05	2.659E-05
1000.0 - 1200.0	1.871E 08	6.020E-05	2.865E-05	2.241E-05	1.453E-05	8.360E-06
1200.0 - 1500.0	4.390E 07	1.731E-05	9.255E-06	4.733E-06	4.478E-06	3.278E-06
TOTAL ENERGY DEPOSITION/SEC	5.558E 19	9.329E 06	2.056E 06	1.161E 06	7.610E 05	4.850E 05

TABLE IX. (Continued)

(keV $m^{-3} sec^{-1}$/keV of source energy)

3.00 TO 4.00 MEV GAMMAS

RADIAL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC) 1.50E-07 - 2.00E-07	2.00E-07 - 3.00E-07	3.00E-07 - 5.00E-07	5.00E-07 - 7.00E-07	7.00E-07 - 1.00E-06	1.00E-06 - 1.50E-06
.0 - 10.0	.000E 00	6.750E-03	1.913E-03	7.655E-04	1.484E-04	4.416E-04
10.0 - 20.0	3.763E-03	3.556E-03	1.029E-03	4.854E-04	7.825E-04	1.485E-04
20.0 - 40.0	3.408E-03	1.627E-03	1.194E-03	7.555E-04	2.457E-04	1.419E-04
40.0 - 60.0	6.025E-03	1.345E-03	1.006E-03	5.115E-04	3.687E-04	1.480E-04
60.0 - 80.0	2.085E-03	1.520E-03	7.210E-04	4.973E-04	2.429E-04	1.742E-04
80.0 - 100.0	2.041E-03	1.130E-03	4.908E-04	3.293E-04	2.270E-04	1.428E-04
100.0 - 125.0	1.222E-03	9.340E-04	5.355E-04	3.064E-04	2.012E-04	1.329E-04
125.0 - 150.0	1.087E-03	7.205E-04	4.313E-04	2.598E-04	1.836E-04	9.385E-05
150.0 - 175.0	9.200E-04	6.380E-04	3.752E-04	2.418E-04	1.248E-04	9.290E-05
175.0 - 200.0	7.805E-04	5.185E-04	3.147E-04	1.427E-04	1.293E-04	7.410E-05
200.0 - 250.0	5.585E-04	3.627E-04	2.273E-04	1.310E-04	8.730E-05	5.605E-05
250.0 - 300.0	3.690E-04	2.303E-04	1.571E-04	9.530E-05	6.020E-05	4.076E-05
300.0 - 350.0	3.240E-04	1.969E-04	1.142E-04	6.870E-05	4.881E-05	2.958E-05
350.0 - 400.0	2.252E-04	1.496E-04	8.115E-05	4.449E-05	3.481E-05	2.169E-05
400.0 - 450.0	1.648E-04	1.250E-04	6.565E-05	3.541E-05	2.710E-05	1.551E-05
450.0 - 500.0	1.335E-04	8.260E-05	4.659E-05	2.995E-05	2.205E-05	1.279E-05
500.0 - 600.0	9.460E-05	5.180E-05	3.110E-05	1.858E-05	1.243E-05	7.440E-06
600.0 - 800.0	4.496E-05	2.836E-05	1.512E-05	8.910E-06	5.890E-06	3.508E-06
800.0 - 1000.0	1.780E-05	1.024E-05	5.715E-06	3.004E-06	1.971E-06	1.250E-06
1000.0 - 1200.0	4.771E-06	3.932E-06	2.288E-06	1.465E-06	7.670E-07	4.118E-07
1200.0 - 1500.0	2.619E-06	1.303E-06	7.015E-07	3.397E-07	2.546E-07	1.342E-07
TOTAL ENERGY DEPOSITION/SEC	3.145E 05	1.962E 05	1.118E 05	6.475E 04	4.380E 04	2.644E 04

TABLE IX. (Continued)

(keV $m^{-3}sec^{-1}$/keV of source energy)

3.00 TO 4.00 MEV GAMMAS

RADIAL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC) 1.50E-06 - 2.00E-06	2.00E-06 - 3.00E-06	3.00E-06 - 5.00E-06	5.00E-06 - 7.00E-06	7.00E-06 - 1.00E-05
.0 - 10.0	1.285E-04	.000E 00	.000E 00	.000E 00	.000E 00
10.0 - 20.0	2.531E-05	1.599E-05	4.204E-07	.000E 00	.000E 00
20.0 - 40.0	1.056E-04	2.991E-05	8.825E-06	4.633E-08	.000E 00
40.0 - 60.0	1.063E-04	3.398E-05	9.055E-06	1.756E-08	.000E 00
60.0 - 80.0	8.440E-05	3.846E-05	5.385E-06	7.090E-08	.000E 00
80.0 - 100.0	7.815E-05	3.371E-05	5.320E-06	2.193E-07	.000E 00
100.0 - 125.0	6.125E-05	2.693E-05	3.916E-06	7.505E-08	.000E 00
125.0 - 150.0	5.570E-05	2.378E-05	3.746E-06	4.032E-08	.000E 00
150.0 - 175.0	4.973E-05	2.062E-05	2.859E-06	1.256E-07	.000E 00
175.0 - 200.0	4.504E-05	1.919E-05	2.696E-06	6.900E-08	.000E 00
200.0 - 250.0	3.337E-05	1.371E-05	2.348E-06	5.895E-08	1.870E-11
250.0 - 300.0	2.468E-05	1.062E-05	1.717E-06	2.855E-08	.000E 00
300.0 - 350.0	1.963E-05	8.170E-06	1.241E-06	2.117E-08	2.991E-09
350.0 - 400.0	1.255E-05	6.165E-06	8.305E-07	2.061E-08	1.715E-09
400.0 - 450.0	1.022E-05	4.757E-06	6.870E-07	1.721E-08	.000E 00
450.0 - 500.0	7.115E-06	3.367E-06	5.275E-07	8.685E-09	.000E 00
500.0 - 600.0	5.005E-06	2.088E-06	3.497E-07	1.143E-08	1.616E-12
600.0 - 800.0	2.168E-06	1.021E-06	1.686E-07	5.075E-09	8.435E-11
800.0 - 1000.0	7.635E-07	3.312E-07	5.410E-08	9.985E-10	.000E 00
1000.0 - 1200.0	2.356E-07	1.064E-07	1.384E-08	5.380E-10	9.430E-12
1200.0 - 1500.0	9.130E-08	4.516E-08	6.490E-09	1.428E-10	.000E 00
TOTAL ENERGY DEPOSITION/SEC	1.618E 04	7.205E 03	1.123E 03	2.788E 01	4.851E-01

TABLE X. TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS RADIAL DISTANCE FROM A POINT-ISOTROPIC GAMMA-RAY SOURCE EMITTING UNIFORMLY IN THE ENERGY INTERVAL FROM 4.0 to 5.0 MeV

(keV $m^{-3} sec^{-1}$/keV of source energy)

RADIAL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC) .00E 00 - 1.00E-20	1.00E-20 - 2.00E-08	2.00E-08 - 5.00E-08	5.00E-08 - 7.00E-08	7.00E-08 - 1.00E-07	1.00E-07 - 1.50E-07
.0 - 10.0	4.644E 14	1.872E 01	2.118E-02	9.430E-03	.000E 00	1.516E-03
10.0 - 20.0	5.810E 13	3.178E 00	6.215E-02	1.071E-02	9.380E-03	9.135E-03
20.0 - 40.0	1.582E 13	8.505E-01	2.595E-02	8.690E-03	4.398E-03	3.133E-03
40.0 - 60.0	5.325E 12	3.972E-01	1.379E-02	8.280E-03	6.975E-03	3.772E-03
60.0 - 80.0	2.551E 12	2.528E-01	1.221E-02	4.966E-03	3.488E-03	2.285E-03
80.0 - 100.0	1.503E 12	1.651E-01	8.770E-03	4.414E-03	2.046E-03	1.624E-03
100.0 - 125.0	8.300E 11	8.615E-02	7.580E-03	3.443E-03	2.307E-03	1.960E-03
125.0 - 150.0	5.610E 11	6.645E-02	7.860E-03	3.332E-03	1.681E-03	1.533E-03
150.0 - 175.0	3.572E 11	4.901E-02	5.320E-03	2.326E-03	1.340E-03	1.260E-03
175.0 - 200.0	2.684E 11	3.595E-02	4.734E-03	2.103E-03	1.336E-03	7.320E-04
200.0 - 250.0	1.475E 11	2.283E-02	3.714E-03	1.952E-03	1.192E-03	7.150E-04
250.0 - 300.0	8.650E 10	1.376E-02	2.351E-03	1.241E-03	8.230E-04	4.654E-04
300.0 - 350.0	5.115E 10	9.030E-03	1.858E-03	9.885E-04	6.545E-04	3.591E-04
350.0 - 400.0	3.020E 10	6.530E-03	1.476E-03	6.050E-04	4.436E-04	2.856E-04
400.0 - 450.0	2.072E 10	5.055E-03	1.189E-03	5.050E-04	3.411E-04	2.083E-04
450.0 - 500.0	1.508E 10	3.407E-03	8.790E-04	4.411E-04	2.977E-04	1.576E-04
500.0 - 600.0	8.065E 09	2.081E-03	5.425E-04	2.817E-04	1.729E-04	1.184E-04
600.0 - 800.0	2.905E 09	8.255E-04	2.344E-04	1.254E-04	9.825E-05	5.575E-05
800.0 - 1000.0	8.960E 08	2.555E-04	9.455E-05	4.970E-05	4.088E-05	2.500E-05
1000.0 - 1200.0	3.035E 08	9.185E-05	3.501E-05	1.804E-05	1.699E-05	8.070E-06
1200.0 - 1500.0	7.395E 07	2.221E-05	1.471E-05	7.220E-06	5.630E-06	3.520E-06
TOTAL ENERGY DEPOSITION/SEC	5.892E 19	9.213E 06	1.867E 06	9.290E 05	6.624E 05	3.995E 05

TABLE X. (Continued)

(keV $m^{-3}sec^{-1}$/keV of source energy)

4.00 TO 5.00 MEV GAMMAS
DELAY TIME (SEC)

RADIAL DISTANCE INTERVAL (METERS)	1.50E-07 - 2.00E-07	2.00E-07 - 3.00E-07	3.00E-07 - 5.00E-07	5.00E-07 - 7.00E-07	7.00E-07 - 1.00E-06	1.00E-06 - 1.50E-06
.0 - 10.0	1.022E-03	.000E 00	8.165E-04	.000E 00	.000E 00	.000E 00
10.0 - 20.0	1.341E-03	1.901E-03	1.874E-03	4.376E-04	2.192E-04	1.558E-04
20.0 - 40.0	5.105E-03	1.295E-03	6.240E-04	6.355E-04	2.029E-04	1.016E-04
40.0 - 60.0	1.775E-03	1.633E-03	6.940E-04	4.580E-04	1.701E-04	1.543E-04
60.0 - 80.0	1.971E-03	7.300E-04	5.910E-04	3.345E-04	1.855E-04	1.223E-04
80.0 - 100.0	1.056E-03	8.080E-04	4.739E-04	2.935E-04	1.697E-04	1.053E-04
100.0 - 125.0	9.730E-04	6.910E-04	3.314E-04	2.236E-04	1.493E-04	9.520E-05
125.0 - 150.0	8.105E-04	5.980E-04	4.122E-04	2.269E-04	1.413E-04	7.200E-05
150.0 - 175.0	4.960E-04	4.203E-04	2.469E-04	1.767E-04	9.590E-05	6.420E-05
175.0 - 200.0	6.305E-04	4.017E-04	2.219E-04	1.161E-04	9.285E-05	4.907E-05
200.0 - 250.0	3.997E-04	2.697E-04	1.635E-04	1.123E-04	6.900E-05	3.693E-05
250.0 - 300.0	3.148E-04	2.111E-04	1.066E-04	7.125E-05	4.814E-05	3.027E-05
300.0 - 350.0	2.085E-04	1.356E-04	8.635E-05	5.540E-05	3.775E-05	2.229E-05
350.0 - 400.0	1.845E-04	1.080E-04	6.745E-05	4.036E-05	2.700E-05	1.822E-05
400.0 - 450.0	1.408E-04	9.185E-05	5.055E-05	2.889E-05	2.029E-05	1.332E-05
450.0 - 500.0	1.182E-04	7.345E-05	3.946E-05	2.542E-05	1.717E-05	9.935E-06
500.0 - 600.0	7.560E-05	5.105E-05	2.736E-05	1.698E-05	1.027E-05	6.355E-06
600.0 - 800.0	3.648E-05	2.577E-05	1.261E-05	7.650E-06	4.640E-06	3.007E-06
800.0 - 1000.0	1.499E-05	1.022E-05	5.000E-06	3.113E-06	1.834E-06	1.103E-06
1000.0 - 1200.0	7.480E-06	4.513E-06	2.371E-06	1.097E-06	7.890E-07	4.057E-07
1200.0 - 1500.0	1.968E-06	1.571E-06	8.570E-07	4.136E-07	2.653E-07	1.475E-07
TOTAL ENERGY DEPOSITION/SEC	2.586E 05	1.732E 05	9.342E 04	5.611E 04	3.580E 04	2.168E 04

TABLE X. (Continued)

(keV $m^{-3}sec^{-1}$/keV of source energy)

4.00 TO 5.00 MEV GAMMAS

RADIAL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC) 1.50E-06 - 2.00E-06	2.00E-06 - 3.00E-06	3.00E-06 - 5.00E-06	5.00E-06 - 7.00E-06	7.00E-06 - 1.00E-05
.0 - 10.0	9.595E-05	.000E 00	.000E 00	.000E 00	.000E 00
10.0 - 20.0	9.010E-05	2.239E-05	3.838E-08	.000E 00	.000E 00
20.0 - 40.0	1.100E-04	3.046E-05	4.254E-06	.000E 00	.000E 00
40.0 - 60.0	7.540E-05	2.834E-05	3.146E-06	1.735E-08	.000E 00
60.0 - 80.0	6.345E-05	2.463E-05	7.310E-06	5.405E-08	4.435E-10
80.0 - 100.0	4.742E-05	2.472E-05	2.872E-06	2.738E-08	1.587E-09
100.0 - 125.0	4.626E-05	2.072E-05	3.603E-06	1.809E-07	.000E 00
125.0 - 150.0	3.814E-05	1.842E-05	3.093E-06	3.026E-08	.000E 00
150.0 - 175.0	3.648E-05	1.585E-05	2.260E-06	1.149E-07	1.469E-11
175.0 - 200.0	3.589E-05	1.456E-05	2.099E-06	7.550E-08	4.163E-10
200.0 - 250.0	2.479E-05	1.000E-05	1.512E-06	3.007E-08	1.006E-08
250.0 - 300.0	1.687E-05	7.795E-06	1.230E-06	4.623E-08	.000E 00
300.0 - 350.0	1.394E-05	6.980E-06	9.925E-07	5.975E-08	8.990E-10
350.0 - 400.0	1.155E-05	4.703E-06	8.335E-07	2.585E-08	2.626E-10
400.0 - 450.0	8.310E-06	3.640E-06	5.730E-07	2.211E-08	3.733E-11
450.0 - 500.0	5.815E-06	2.656E-06	4.768E-07	2.021E-08	.000E 00
500.0 - 600.0	3.932E-06	1.852E-06	2.699E-07	1.346E-08	.000E 00
600.0 - 800.0	1.973E-06	8.520E-07	1.331E-07	3.501E-09	.000E 00
800.0 - 1000.0	7.060E-07	3.361E-07	5.885E-08	2.289E-09	1.514E-12
1000.0 - 1200.0	2.741E-07	1.347E-07	2.410E-08	1.039E-09	1.014E-11
1200.0 - 1500.0	8.835E-08	3.978E-08	8.125E-09	3.352E-10	.000E 00
TOTAL ENERGY DEPOSITION/SEC	1.351E 04	6.088E 03	9.900E 02	3.726E 01	4.512E-01

TABLE XI. TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS RADIAL DISTANCE FROM A POINT-ISOTROPIC GAMMA-RAY SOURCE EMITTING UNIFORMLY IN THE ENERGY INTERVAL FROM 5.0 to 6.0 MeV

(keV $m^{-3} sec^{-1}$/keV of source energy)

RADIAL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC) .00E 00 - 1.00E-20	1.00E-20 - 2.00E-08	2.00E-08 - 5.00E-08	5.00E-08 - 7.00E-08	7.00E-08 - 1.00E-07	1.00E-07 - 1.50E-07
.0 - 10.0	4.585E 14	2.243E 01	3.208E-02	1.323E-02	.000E 00	5.210E-03
10.0 - 20.0	6.495E 13	3.027E 00	1.945E-02	9.705E-03	5.750E-03	7.375E-03
20.0 - 40.0	1.532E 13	7.400E-01	2.903E-02	1.061E-02	5.705E-03	3.787E-03
40.0 - 60.0	5.160E 12	3.418E-01	1.712E-02	7.065E-03	3.185E-03	3.288E-03
60.0 - 80.0	2.749E 12	1.610E-01	9.830E-03	5.065E-03	3.837E-03	2.053E-03
80.0 - 100.0	1.418E 12	1.098E-01	8.855E-03	3.018E-03	2.488E-03	1.306E-03
100.0 - 125.0	8.770E 11	7.790E-02	7.830E-03	3.488E-03	2.092E-03	1.554E-03
125.0 - 150.0	5.605E 11	5.405E-02	6.265E-03	2.548E-03	1.565E-03	1.111E-03
150.0 - 175.0	3.456E 11	4.475E-02	4.208E-03	1.828E-03	1.093E-03	9.415E-04
175.0 - 200.0	2.539E 11	2.923E-02	4.262E-03	1.474E-03	9.220E-04	8.435E-04
200.0 - 250.0	1.401E 11	1.974E-02	2.589E-03	1.356E-03	9.270E-04	5.535E-04
250.0 - 300.0	9.160E 10	1.371E-02	2.144E-03	7.855E-04	5.855E-04	3.585E-04
300.0 - 350.0	4.789E 10	9.355E-03	1.582E-03	7.610E-04	4.043E-04	3.321E-04
350.0 - 400.0	3.451E 10	5.580E-03	9.065E-04	5.990E-04	3.978E-04	2.409E-04
400.0 - 450.0	2.197E 10	4.327E-03	8.390E-04	4.612E-04	3.368E-04	1.467E-04
450.0 - 500.0	1.778E 10	3.565E-03	7.460E-04	3.663E-04	1.698E-04	1.197E-04
500.0 - 600.0	9.305E 09	2.037E-03	5.060E-04	2.485E-04	1.519E-04	8.400E-05
600.0 - 800.0	3.374E 09	8.960E-04	2.309E-04	9.745E-05	8.240E-05	5.300E-05
800.0 - 1000.0	1.054E 09	3.023E-04	8.600E-05	5.675E-05	3.504E-05	2.145E-05
1000.0 - 1200.0	4.221E 08	1.153E-04	4.282E-05	1.923E-05	1.338E-05	9.885E-06
1200.0 - 1500.0	1.165E 08	3.556E-05	2.508E-05	9.090E-06	6.990E-06	4.611E-06
TOTAL ENERGY DEPOSITION/SEC	6.161E 19	8.826E 06	1.729E 06	8.220E 05	5.530E 05	3.537E 05

TABLE XI. (Continued)

(keV $m^{-3} sec^{-1}$/keV of source energy)

5.00 TO 6.00 MEV GAMMAS

RADIAL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC) 1.50E-07 - 2.00E-07	2.00E-07 - 3.00E-07	3.00E-07 - 5.00E-07	5.00E-07 - 7.00E-07	7.00E-07 - 1.00E-06	1.00E-06 - 1.50E-06
.0 - 10.0	.000E 00	.000E 00	.000E 00	1.102E-04	.000E 00	9.550E-04
10.0 - 20.0	3.133E-03	1.339E-03	9.445E-04	4.571E-04	1.412E-03	1.751E-05
20.0 - 40.0	1.083E-03	8.565E-04	7.480E-04	4.040E-04	3.311E-04	7.350E-05
40.0 - 60.0	1.856E-03	8.405E-04	3.856E-04	2.526E-04	2.570E-04	8.760E-05
60.0 - 80.0	1.553E-03	8.035E-04	4.551E-04	3.014E-04	2.002E-04	8.460E-05
80.0 - 100.0	1.108E-03	5.410E-04	4.561E-04	1.590E-04	1.709E-04	9.050E-05
100.0 - 125.0	9.125E-04	5.800E-04	3.651E-04	1.819E-04	1.277E-04	6.800E-05
125.0 - 150.0	6.995E-04	4.098E-04	2.456E-04	1.726E-04	9.230E-05	5.990E-05
150.0 - 175.0	4.786E-04	4.106E-04	2.610E-04	1.695E-04	8.080E-05	5.180E-05
175.0 - 200.0	4.013E-04	3.321E-04	1.981E-04	1.128E-04	6.385E-05	4.309E-05
200.0 - 250.0	2.678E-04	2.195E-04	1.389E-04	8.665E-05	5.950E-05	3.473E-05
250.0 - 300.0	2.336E-04	1.767E-04	9.100E-05	5.785E-05	4.186E-05	2.725E-05
300.0 - 350.0	2.072E-04	1.272E-04	7.285E-05	4.267E-05	2.712E-05	1.959E-05
350.0 - 400.0	1.609E-04	1.028E-04	5.300E-05	2.945E-05	2.189E-05	1.477E-05
400.0 - 450.0	1.446E-04	7.565E-05	4.308E-05	2.416E-05	1.684E-05	1.042E-05
450.0 - 500.0	9.635E-05	5.715E-05	3.242E-05	1.876E-05	1.259E-05	8.720E-06
500.0 - 600.0	5.930E-05	4.161E-05	2.191E-05	1.437E-05	8.340E-06	5.090E-06
600.0 - 800.0	3.011E-05	2.120E-05	1.152E-05	6.975E-06	4.024E-06	2.516E-06
800.0 - 1000.0	1.371E-05	9.740E-06	4.332E-06	2.563E-06	1.572E-06	9.725E-07
1000.0 - 1200.0	7.420E-06	4.960E-06	2.031E-06	1.154E-06	8.155E-07	4.516E-07
1200.0 - 1500.0	2.251E-06	1.840E-06	7.485E-07	4.123E-07	3.051E-07	1.576E-07
TOTAL ENERGY DEPOSITION/SEC	2.258E 05	1.543E 05	7.987E 04	4.748E 04	3.063E 04	1.883E 04

TABLE XI. (Continued)

(keV $m^{-3} sec^{-1}$/keV of source energy)

5.00 TO 6.00 MEV GAMMAS
DELAY TIME (SEC)

RADIAL DISTANCE INTERVAL (METERS)	1.50E-06 - 2.00E-06	2.00E-06 - 3.00E-06	3.00E-06 - 5.00E-06	5.00E-06 - 7.00E-06	7.00E-06 - 1.00E-05
.0 - 10.0	8.550E-05	.000E 00	.000E 00	.000E 00	.000E 00
10.0 - 20.0	4.327E-05	.000E 00	2.327E-06	.000E 00	.000E 00
20.0 - 40.0	8.690E-05	1.748E-05	3.377E-06	.000E 00	.000E 00
40.0 - 60.0	3.304E-05	1.794E-05	2.927E-06	3.924E-08	.000E 00
60.0 - 80.0	5.425E-05	2.490E-05	3.703E-06	1.104E-07	.000E 00
80.0 - 100.0	4.837E-05	1.845E-05	2.657E-06	4.720E-07	.000E 00
100.0 - 125.0	3.546E-05	1.810E-05	2.411E-06	6.540E-08	.000E 00
125.0 - 150.0	3.521E-05	1.428E-05	2.352E-06	2.791E-08	.000E 00
150.0 - 175.0	2.889E-05	1.381E-05	2.163E-06	4.011E-08	.000E 00
175.0 - 200.0	2.457E-05	1.032E-05	1.479E-06	5.835E-08	.000E 00
200.0 - 250.0	1.863E-05	9.105E-06	1.405E-06	4.307E-08	.000E 00
250.0 - 300.0	1.681E-05	7.285E-06	9.910E-07	3.109E-08	.000E 00
300.0 - 350.0	1.179E-05	5.090E-06	7.940E-07	1.329E-08	9.045E-12
350.0 - 400.0	8.235E-06	3.830E-06	6.085E-07	3.172E-08	.000E 00
400.0 - 450.0	7.190E-06	3.027E-06	4.509E-07	1.383E-08	.000E 00
450.0 - 500.0	5.490E-06	2.296E-06	4.116E-07	1.703E-08	9.100E-12
500.0 - 600.0	3.258E-06	1.628E-06	2.454E-07	1.539E-08	1.776E-10
600.0 - 800.0	1.659E-06	7.515E-07	1.166E-07	3.978E-09	5.905E-10
800.0 - 1000.0	5.295E-07	2.722E-07	5.345E-08	1.715E-09	.000E 00
1000.0 - 1200.0	2.673E-07	1.215E-07	2.033E-08	7.105E-10	1.569E-10
1200.0 - 1500.0	1.003E-07	4.401E-08	8.020E-09	3.186E-10	.000E 00
TOTAL ENERGY DEPOSITION/SEC	1.147E 04	5.238E 03	8.439E 02	3.174E 01	1.280E 00

TABLE XII. TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS RADIAL DISTANCE FROM A POINT-ISOTROPIC GAMMA-RAY SOURCE EMITTING UNIFORMLY IN THE ENERGY INTERVAL FROM 6.0 to 7.0 MeV

(keV $m^{-3} sec^{-1}$/keV of source energy)

RADIAL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC) .00E 00 - 1.00E-20	1.00E-20 - 2.00E-08	2.00E-08 - 5.00E-08	5.00E-08 - 7.00E-08	7.00E-08 - 1.00E-07	1.00E-07 - 1.50E-07
.0 - 10.0	4.445E 14	9.925E 00	1.718E-01	1.361E-02	2.002E-02	5.645E-03
10.0 - 20.0	6.160E 13	1.786E 00	6.140E-02	2.222E-02	1.098E-03	4.858E-03
20.0 - 40.0	1.449E 13	8.530E-01	1.262E-02	1.140E-02	7.070E-03	3.906E-03
40.0 - 60.0	4.904E 12	3.324E-01	1.247E-02	5.855E-03	4.208E-03	1.671E-03
60.0 - 80.0	2.666E 12	1.978E-01	8.865E-03	3.832E-03	3.127E-03	1.898E-03
80.0 - 100.0	1.427E 12	9.960E-02	5.825E-03	3.190E-03	2.298E-03	1.082E-03
100.0 - 125.0	8.445E 11	8.685E-02	5.055E-03	2.915E-03	1.088E-03	1.100E-03
125.0 - 150.0	4.982E 11	6.080E-02	4.316E-03	1.827E-03	1.355E-03	8.575E-04
150.0 - 175.0	3.269E 11	3.600E-02	3.265E-03	1.898E-03	1.141E-03	6.375E-04
175.0 - 200.0	2.235E 11	2.918E-02	3.311E-03	1.840E-03	7.415E-04	5.180E-04
200.0 - 250.0	1.531E 11	2.056E-02	2.180E-03	1.018E-03	6.250E-04	4.941E-04
250.0 - 300.0	8.560E 10	1.215E-02	1.833E-03	9.070E-04	4.684E-04	3.089E-04
300.0 - 350.0	5.400E 10	7.380E-03	1.382E-03	6.775E-04	3.246E-04	2.154E-04
350.0 - 400.0	3.039E 10	6.175E-03	1.001E-03	4.259E-04	2.807E-04	1.684E-04
400.0 - 450.0	2.298E 10	4.548E-03	7.290E-04	2.300E-04	2.317E-04	1.445E-04
450.0 - 500.0	1.821E 10	2.987E-03	6.375E-04	2.804E-04	2.308E-04	1.069E-04
500.0 - 600.0	9.410E 09	2.101E-03	4.370E-04	2.116E-04	1.433E-04	8.495E-05
600.0 - 800.0	4.248E 09	8.455E-04	2.275E-04	1.237E-04	6.740E-05	4.172E-05
800.0 - 1000.0	1.378E 09	3.428E-04	9.665E-05	4.964E-05	3.520E-05	2.433E-05
1000.0 - 1200.0	5.515E 08	1.540E-04	3.782E-05	2.387E-05	1.801E-05	1.000E-05
1200.0 - 1500.0	1.442E 08	4.732E-05	1.800E-05	8.835E-06	6.725E-06	3.398E-06
TOTAL ENERGY DEPOSITION/SEC	6.273E 19	8.844E 06	1.542E 06	7.707E 05	5.024E 05	3.063E 05

TABLE XII. (Continued)

(keV $m^{-3} sec^{-1}$/keV of source energy)

6.00 TO 7.00 MEV GAMMAS
DELAY TIME (SEC)

RADIAL DISTANCE INTERVAL (METERS)	1.50E-07 - 2.00E-07	2.00E-07 - 3.00E-07	3.00E-07 - 5.00E-07	5.00E-07 - 7.00E-07	7.00E-07 - 1.00E-06	1.00E-06 - 1.50E-06
.0 - 10.0	.000E 00	1.351E-03	1.500E-03	9.230E-04	4.093E-05	1.430E-03
10.0 - 20.0	3.618E-03	1.333E-03	5.860E-04	3.156E-04	3.263E-04	1.466E-04
20.0 - 40.0	2.155E-03	1.282E-03	6.400E-04	3.279E-04	1.810E-04	7.645E-05
40.0 - 60.0	1.037E-03	1.355E-03	6.710E-04	2.529E-04	2.118E-04	7.680E-05
60.0 - 80.0	8.760E-04	7.335E-04	4.418E-04	2.319E-04	1.315E-04	6.380E-05
80.0 - 100.0	1.165E-03	5.780E-04	3.295E-04	2.131E-04	1.063E-04	7.325E-05
100.0 - 125.0	8.800E-04	5.515E-04	2.591E-04	1.607E-04	9.855E-05	5.755E-05
125.0 - 150.0	7.485E-04	3.853E-04	2.108E-04	1.171E-04	8.745E-05	5.565E-05
150.0 - 175.0	5.045E-04	3.248E-04	2.258E-04	1.025E-04	6.830E-05	4.996E-05
175.0 - 200.0	3.544E-04	2.199E-04	1.613E-04	8.485E-05	7.030E-05	3.609E-05
200.0 - 250.0	2.990E-04	2.083E-04	1.022E-04	8.095E-05	5.505E-05	2.904E-05
250.0 - 300.0	1.730E-04	1.365E-04	8.020E-05	5.045E-05	3.504E-05	2.096E-05
300.0 - 350.0	1.639E-04	1.029E-04	5.810E-05	3.068E-05	2.514E-05	1.689E-05
350.0 - 400.0	1.056E-04	7.345E-05	4.805E-05	2.575E-05	2.082E-05	1.185E-05
400.0 - 450.0	9.905E-05	6.340E-05	3.553E-05	1.981E-05	1.347E-05	9.530E-06
450.0 - 500.0	5.555E-05	4.808E-05	2.779E-05	1.998E-05	1.075E-05	7.385E-06
500.0 - 600.0	5.160E-05	3.313E-05	1.868E-05	1.189E-05	7.200E-06	4.220E-06
600.0 - 800.0	2.827E-05	1.774E-05	1.011E-05	5.785E-06	3.775E-06	2.393E-06
800.0 - 1000.0	1.422E-05	8.970E-06	4.095E-06	2.634E-06	1.571E-06	1.014E-06
1000.0 - 1200.0	5.810E-06	4.751E-06	2.588E-06	1.088E-06	7.510E-07	4.647E-07
1200.0 - 1500.0	2.784E-06	1.799E-06	7.735E-07	4.776E-07	2.978E-07	1.714E-07
TOTAL ENERGY DEPOSITION/SEC	1.987E 05	1.333E 05	7.221E 04	4.219E 04	2.781E 04	1.716E 04

TABLE XII. (Continued)

(keV $m^{-3} sec^{-1}$/keV of source energy)

6.00 TO 7.00 MEV GAMMAS

RADIAL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC) 1.50E-06 - 2.00E-06	2.00E-06 - 3.00E-06	3.00E-06 - 5.00E-06	5.00E-06 - 7.00E-06	7.00E-06 - 1.00E-05
.0 - 10.0	.000E 00	.000E 00	.000E 00	.000E 00	.000E 00
10.0 - 20.0	3.587E-05	1.931E-05	1.087E-06	.000E 00	.000E 00
20.0 - 40.0	1.064E-04	2.123E-05	1.393E-06	4.439E-07	.000E 00
40.0 - 60.0	3.915E-05	1.572E-05	2.552E-06	7.440E-08	.000E 00
60.0 - 80.0	5.115E-05	1.667E-05	2.863E-06	1.452E-07	.000E 00
80.0 - 100.0	3.620E-05	1.585E-05	3.027E-06	3.400E-08	1.239E-09
100.0 - 125.0	3.596E-05	1.505E-05	2.767E-06	4.692E-08	.000E 00
125.0 - 150.0	2.796E-05	9.970E-06	2.177E-06	5.245E-08	2.794E-09
150.0 - 175.0	2.407E-05	1.104E-05	1.908E-06	6.955E-08	1.717E-10
175.0 - 200.0	2.250E-05	1.121E-05	1.374E-06	8.950E-08	1.120E-09
200.0 - 250.0	1.641E-05	7.610E-06	1.241E-06	6.150E-08	6.620E-10
250.0 - 300.0	1.338E-05	6.035E-06	1.049E-06	2.191E-08	3.145E-10
300.0 - 350.0	1.111E-05	4.481E-06	7.540E-07	3.938E-08	9.925E-10
350.0 - 400.0	8.275E-06	3.651E-06	5.940E-07	1.909E-08	2.368E-09
400.0 - 450.0	5.810E-06	2.656E-06	4.517E-07	3.173E-08	1.949E-09
450.0 - 500.0	4.626E-06	2.094E-06	3.172E-07	3.363E-08	2.192E-10
500.0 - 600.0	2.729E-06	1.393E-06	2.247E-07	1.240E-08	4.673E-10
600.0 - 800.0	1.376E-06	6.675E-07	1.215E-07	5.960E-09	1.262E-11
800.0 - 1000.0	6.630E-07	3.060E-07	5.420E-08	1.512E-09	1.304E-12
1000.0 - 1200.0	2.331E-07	1.156E-07	2.289E-08	8.280E-10	9.410E-13
1200.0 - 1500.0	9.860E-08	4.813E-08	8.825E-09	2.972E-10	.000E 00
TOTAL ENERGY DEPOSITION/SEC	1.039E 04	4.823E 03	8.332E 02	3.794E 01	7.965E-01

TABLE XIII. TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS RADIAL DISTANCE FROM A POINT-ISOTROPIC GAMMA-RAY SOURCE EMITTING UNIFORMLY IN THE ENERGY INTERVAL FROM 7.0 to 8.0 MeV

(keV m^{-3} sec^{-1}/keV of source energy)

RADIAL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC) .00E 00 - 1.00E-20	1.00E-20 - 2.00E-08	2.00E-08 - 5.00E-08	5.00E-08 - 7.00E-08	7.00E-08 - 1.00E-07	1.00E-07 - 1.50E-07
.0 - 10.0	4.325E 14	8.870E 00	6.410E-02	5.235E-03	.000E 00	1.309E-02
10.0 - 20.0	5.460E 13	2.974E 00	1.462E-02	7.470E-03	8.415E-03	2.436E-03
20.0 - 40.0	1.365E 13	8.195E-01	1.605E-02	5.645E-03	2.872E-03	1.660E-03
40.0 - 60.0	4.717E 12	3.159E-01	8.570E-03	5.300E-03	3.283E-03	2.176E-03
60.0 - 80.0	2.256E 12	1.614E-01	7.375E-03	3.918E-03	2.277E-03	1.701E-03
80.0 - 100.0	1.336E 12	1.029E-01	5.005E-03	2.012E-03	1.884E-03	1.372E-03
100.0 - 125.0	8.545E 11	7.380E-02	3.863E-03	2.566E-03	1.485E-03	9.545E-04
125.0 - 150.0	4.708E 11	4.996E-02	2.884E-03	1.831E-03	1.425E-03	8.680E-04
150.0 - 175.0	3.536E 11	4.076E-02	3.055E-03	1.228E-03	8.715E-04	6.225E-04
175.0 - 200.0	2.451E 11	2.507E-02	1.968E-03	1.463E-03	6.600E-04	4.640E-04
200.0 - 250.0	1.581E 11	1.873E-02	1.838E-03	8.870E-04	5.770E-04	3.824E-04
250.0 - 300.0	9.295E 10	1.151E-02	1.436E-03	7.040E-04	4.107E-04	2.485E-04
300.0 - 350.0	5.660E 10	9.145E-03	1.014E-03	3.766E-04	2.593E-04	2.120E-04
350.0 - 400.0	3.472E 10	5.590E-03	8.130E-04	3.937E-04	2.610E-04	1.635E-04
400.0 - 450.0	2.444E 10	4.398E-03	7.475E-04	2.928E-04	2.188E-04	1.034E-04
450.0 - 500.0	1.750E 10	2.884E-03	4.950E-04	1.809E-04	1.762E-04	1.061E-04
500.0 - 600.0	1.032E 10	2.146E-03	3.996E-04	1.805E-04	1.163E-04	7.380E-05
600.0 - 800.0	4.303E 09	8.860E-04	2.053E-04	8.805E-05	6.705E-05	4.454E-05
800.0 - 1000.0	1.481E 09	3.643E-04	9.175E-05	4.480E-05	3.179E-05	1.887E-05
1000.0 - 1200.0	4.910E 08	1.368E-04	4.647E-05	2.280E-05	1.595E-05	9.185E-06
1200.0 - 1500.0	1.858E 08	6.070E-05	1.774E-05	1.058E-05	7.535E-06	4.018E-06
TOTAL ENERGY DEPOSITION/SEC	6.366E 19	8.791E 06	1.389E 06	6.542E 05	4.599E 05	2.832E 05

TABLE XIII. (Continued)

(keV $m^{-3} sec^{-1}$/keV of source energy)

7.00 TO 8.00 MEV GAMMAS

RADIAL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC) 1.50E-07 - 2.00E-07	2.00E-07 - 3.00E-07	3.00E-07 - 5.00E-07	5.00E-07 - 7.00E-07	7.00E-07 - 1.00E-06	1.00E-06 - 1.50E-06
.0 - 10.0	.000E 00	.000E 00	3.038E-03	.000E 00	.000E 00	.000E 00
10.0 - 20.0	8.645E-04	2.309E-03	3.265E-04	7.810E-04	6.285E-05	6.560E-05
20.0 - 40.0	2.873E-03	1.328E-03	5.975E-04	2.524E-04	2.699E-04	9.295E-05
40.0 - 60.0	1.154E-03	1.179E-03	6.545E-04	1.635E-04	1.566E-04	9.245E-05
60.0 - 80.0	1.175E-03	7.090E-04	4.033E-04	1.718E-04	1.762E-04	7.505E-05
80.0 - 100.0	7.820E-04	4.937E-04	3.772E-04	1.744E-04	9.955E-05	7.030E-05
100.0 - 125.0	6.335E-04	4.553E-04	2.997E-04	1.638E-04	1.007E-04	6.055E-05
125.0 - 150.0	5.155E-04	2.750E-04	2.155E-04	1.359E-04	7.715E-05	4.626E-05
150.0 - 175.0	4.482E-04	2.834E-04	1.998E-04	1.226E-04	9.120E-05	3.546E-05
175.0 - 200.0	3.606E-04	2.388E-04	1.528E-04	9.510E-05	4.498E-05	2.968E-05
200.0 - 250.0	2.432E-04	1.645E-04	1.016E-04	6.415E-05	3.914E-05	2.639E-05
250.0 - 300.0	1.650E-04	1.258E-04	7.285E-05	4.135E-05	2.729E-05	1.912E-05
300.0 - 350.0	1.286E-04	9.105E-05	5.090E-05	3.435E-05	2.389E-05	1.407E-05
350.0 - 400.0	1.135E-04	6.105E-05	4.222E-05	2.613E-05	1.742E-05	1.028E-05
400.0 - 450.0	6.995E-05	5.630E-05	2.962E-05	1.627E-05	1.275E-05	7.225E-06
450.0 - 500.0	6.205E-05	3.581E-05	2.454E-05	1.528E-05	1.052E-05	6.630E-06
500.0 - 600.0	3.969E-05	2.693E-05	1.556E-05	9.540E-06	6.570E-06	4.332E-06
600.0 - 800.0	2.617E-05	1.754E-05	8.505E-06	4.790E-06	3.220E-06	1.979E-06
800.0 - 1000.0	1.117E-05	8.470E-06	4.340E-06	2.560E-06	1.466E-06	8.615E-07
1000.0 - 1200.0	5.740E-06	3.273E-06	1.639E-06	9.775E-07	6.340E-07	4.468E-07
1200.0 - 1500.0	2.712E-06	1.672E-06	8.000E-07	4.837E-07	2.772E-07	1.616E-07
TOTAL ENERGY DEPOSITION/SEC	1.754E 05	1.165E 05	6.423E 04	3.805E 04	2.466E 04	1.516E 04

TABLE XIII. (Continued)

($keV\ m^{-3} sec^{-1}$/keV of source energy)

7.00 TO 8.00 MEV GAMMAS
DELAY TIME (SEC)

RADIAL DISTANCE INTERVAL (METERS)	1.50E-06 - 2.00E-06	2.00E-06 - 3.00E-06	3.00E-06 - 5.00E-06	5.00E-06 - 7.00E-06	7.00E-06 - 1.00E-05
.0 - 10.0	.000E 00	.000E 00	.000E 00	.000E 00	.000E 00
10.0 - 20.0	6.260E-05	4.343E-05	4.905E-06	9.930E-07	.000E 00
20.0 - 40.0	3.393E-05	2.602E-05	3.751E-06	4.496E-08	.000E 00
40.0 - 60.0	4.824E-05	2.015E-05	2.189E-06	4.151E-07	.000E 00
60.0 - 80.0	2.894E-05	1.834E-05	2.521E-06	3.021E-07	.000E 00
80.0 - 100.0	3.733E-05	1.261E-05	1.692E-06	1.792E-07	.000E 00
100.0 - 125.0	3.350E-05	1.373E-05	1.736E-06	1.054E-07	.000E 00
125.0 - 150.0	2.385E-05	1.012E-05	1.493E-06	9.695E-08	.000E 00
150.0 - 175.0	2.158E-05	1.013E-05	1.706E-06	1.080E-07	.000E 00
175.0 - 200.0	1.948E-05	7.440E-06	1.274E-06	7.975E-08	.000E 00
200.0 - 250.0	1.371E-05	6.770E-06	1.320E-06	2.455E-08	.000E 00
250.0 - 300.0	1.116E-05	5.005E-06	8.100E-07	1.687E-08	.000E 00
300.0 - 350.0	9.370E-06	3.946E-06	6.855E-07	1.294E-08	.000E 00
350.0 - 400.0	6.165E-06	3.031E-06	5.070E-07	1.933E-08	3.370E-10
400.0 - 450.0	5.435E-06	2.394E-06	4.239E-07	1.753E-08	1.999E-11
450.0 - 500.0	3.792E-06	1.693E-06	3.034E-07	1.156E-08	2.470E-10
500.0 - 600.0	2.536E-06	1.219E-06	2.222E-07	6.400E-09	1.172E-10
600.0 - 800.0	1.255E-06	5.955E-07	9.880E-08	4.318E-09	6.045E-11
800.0 - 1000.0	5.070E-07	2.285E-07	4.566E-08	2.126E-09	1.461E-12
1000.0 - 1200.0	2.448E-07	1.146E-07	2.126E-08	9.985E-10	.000E 00
1200.0 - 1500.0	8.860E-08	4.666E-08	8.155E-09	2.308E-10	7.850E-11
TOTAL ENERGY DEPOSITION/SEC	9.033E 03	4.189E 03	7.371E 02	2.839E 01	7.314E-01

TABLE XIV. TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS RADIAL DISTANCE FROM A POINT-ISOTROPIC GAMMA-RAY SOURCE EMITTING UNIFORMLY IN THE ENERGY INTERVAL FROM 8.0 TO 9.0 MeV

($keV\ m^{-3}\ sec^{-1}$/keV of source energy)

RADIAL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC) .00E 00 - 1.00E-20	1.00E-20 - 2.00E-08	2.00E-08 - 5.00E-08	5.00E-08 - 7.00E-08	7.00E-08 - 1.00E-07	1.00E-07 - 1.50E-07
.0 - 10.0	3.924E 14	1.411E 01	2.879E-02	.000E 00	8.245E-04	.000E 00
10.0 - 20.0	4.999E 13	2.096E 00	2.646E-02	1.234E-02	2.624E-03	2.209E-03
20.0 - 40.0	1.356E 13	6.955E-01	8.465E-03	7.650E-03	5.275E-03	3.912E-03
40.0 - 60.0	5.065E 12	2.941E-01	8.040E-03	4.297E-03	3.461E-03	1.778E-03
60.0 - 80.0	2.200E 12	1.343E-01	5.080E-03	3.089E-03	1.813E-03	8.875E-04
80.0 - 100.0	1.308E 12	9.250E-02	4.600E-03	2.014E-03	2.133E-03	1.240E-03
100.0 - 125.0	8.525E 11	6.555E-02	3.795E-03	1.169E-03	1.594E-03	8.895E-04
125.0 - 150.0	5.695E 11	3.844E-02	2.719E-03	1.596E-03	8.100E-04	8.025E-04
150.0 - 175.0	3.584E 11	3.240E-02	2.077E-03	8.675E-04	7.990E-04	5.565E-04
175.0 - 200.0	2.540E 11	2.357E-02	2.539E-03	8.225E-04	6.615E-04	3.905E-04
200.0 - 250.0	1.567E 11	1.670E-02	1.623E-03	5.640E-04	4.079E-04	3.615E-04
250.0 - 300.0	9.070E 10	1.129E-02	1.153E-03	6.200E-04	3.639E-04	2.297E-04
300.0 - 350.0	5.840E 10	7.935E-03	1.110E-03	4.976E-04	2.610E-04	1.955E-04
350.0 - 400.0	3.932E 10	5.170E-03	7.470E-04	2.742E-04	1.872E-04	1.456E-04
400.0 - 450.0	2.449E 10	3.868E-03	5.290E-04	1.967E-04	1.550E-04	1.110E-04
450.0 - 500.0	1.823E 10	2.789E-03	5.385E-04	2.144E-04	1.250E-04	8.125E-05
500.0 - 600.0	1.078E 10	1.901E-03	3.260E-04	1.438E-04	8.840E-05	6.030E-05
600.0 - 800.0	4.161E 09	9.450E-04	1.766E-04	1.008E-04	5.995E-05	3.263E-05
800.0 - 1000.0	1.601E 09	3.470E-04	8.015E-05	4.793E-05	3.163E-05	1.654E-05
1000.0 - 1200.0	6.740E 08	1.526E-04	4.901E-05	2.658E-05	1.421E-05	8.350E-06
1200.0 - 1500.0	2.270E 08	7.595E-05	2.050E-05	1.068E-05	7.745E-06	3.593E-06
TOTAL ENERGY DEPOSITION/SEC	6.573E 19	8.333E 06	1.281E 06	6.335E 05	4.044E 05	2.430E 05

TABLE XIV. (Continued)

(keV $m^{-3} sec^{-1}$/keV of source energy)

8.00 TO 9.00 MEV GAMMAS

RADIAL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC) 1.50E-07 - 2.00E-07	2.00E-07 - 3.00E-07	3.00E-07 - 5.00E-07	5.00E-07 - 7.00E-07	7.00E-07 - 1.00E-06	1.00E-06 - 1.50E-06
.0 - 10.0	.000E 00	.000E 00	3.845E-04	.000E 00	.000E 00	.000E 00
10.0 - 20.0	8.525E-04	7.295E-04	3.460E-04	4.219E-04	2.118E-04	1.039E-05
20.0 - 40.0	1.025E-03	8.885E-04	5.200E-04	1.209E-04	1.872E-04	3.971E-05
40.0 - 60.0	1.195E-03	7.775E-04	5.640E-04	1.827E-04	1.160E-04	5.460E-05
60.0 - 80.0	9.570E-04	5.675E-04	4.497E-04	1.491E-04	9.690E-05	4.305E-05
80.0 - 100.0	8.360E-04	4.062E-04	2.171E-04	1.066E-04	8.355E-05	3.969E-05
100.0 - 125.0	5.065E-04	3.939E-04	2.149E-04	1.625E-04	8.950E-05	4.472E-05
125.0 - 150.0	5.795E-04	3.333E-04	1.939E-04	1.397E-04	7.065E-05	4.417E-05
150.0 - 175.0	3.862E-04	2.578E-04	1.478E-04	8.970E-05	5.775E-05	3.703E-05
175.0 - 200.0	3.188E-04	2.104E-04	1.208E-04	7.370E-05	4.120E-05	2.770E-05
200.0 - 250.0	2.512E-04	1.611E-04	9.325E-05	5.565E-05	3.561E-05	2.489E-05
250.0 - 300.0	1.567E-04	1.069E-04	5.600E-05	4.694E-05	3.064E-05	1.890E-05
300.0 - 350.0	1.313E-04	8.490E-05	4.747E-05	3.119E-05	2.171E-05	1.324E-05
350.0 - 400.0	1.003E-04	5.785E-05	3.684E-05	2.314E-05	1.517E-05	1.066E-05
400.0 - 450.0	7.090E-05	5.160E-05	2.889E-05	1.794E-05	1.256E-05	7.155E-06
450.0 - 500.0	5.830E-05	3.435E-05	2.089E-05	1.107E-05	9.675E-06	5.650E-06
500.0 - 600.0	3.629E-05	2.539E-05	1.433E-05	9.055E-06	5.735E-06	3.862E-06
600.0 - 800.0	2.134E-05	1.388E-05	7.645E-06	4.635E-06	2.968E-06	1.874E-06
800.0 - 1000.0	1.145E-05	6.600E-06	3.497E-06	1.946E-06	1.213E-06	8.315E-07
1000.0 - 1200.0	6.095E-06	3.422E-06	1.662E-06	1.111E-06	7.000E-07	3.858E-07
1200.0 - 1500.0	2.334E-06	1.552E-06	7.495E-07	4.135E-07	2.481E-07	1.485E-07
TOTAL ENERGY DEPOSITION/SEC	1.640E 05	1.035E 05	5.671E 04	3.477E 04	2.251E 04	1.406E 04

TABLE XIV. (Continued)

(keV $m^{-3} sec^{-1}$/keV of source energy)

8.00 TO 9.00 MEV GAMMAS

RADIAL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC) 1.50E-06 - 2.00E-06	2.00E-06 - 3.00E-06	3.00E-06 - 5.00E-06	5.00E-06 - 7.00E-06	7.00E-06 - 1.00E-05
.0 - 10.0	.000E 00	5.150E-05	.000E 00	.000E 00	.000E 00
10.0 - 20.0	1.340E-05	4.508E-05	8.215E-07	.000E 00	.000E 00
20.0 - 40.0	6.045E-05	2.677E-05	2.870E-06	1.826E-07	.000E 00
40.0 - 60.0	2.392E-05	1.190E-05	2.228E-06	2.743E-07	.000E 00
60.0 - 80.0	5.040E-05	1.300E-05	3.450E-06	1.329E-07	.000E 00
80.0 - 100.0	3.478E-05	1.350E-05	2.472E-06	8.130E-08	2.784E-08
100.0 - 125.0	2.548E-05	1.230E-05	2.070E-06	2.695E-07	6.670E-09
125.0 - 150.0	2.332E-05	8.790E-06	1.657E-06	7.460E-08	1.746E-08
150.0 - 175.0	1.790E-05	8.145E-06	1.441E-06	3.271E-08	1.706E-08
175.0 - 200.0	1.521E-05	7.415E-06	1.329E-06	4.831E-09	2.300E-10
200.0 - 250.0	1.360E-05	6.370E-06	9.345E-07	1.475E-08	.000E 00
250.0 - 300.0	1.030E-05	5.040E-06	7.645E-07	3.577E-08	2.813E-12
300.0 - 350.0	8.440E-06	3.742E-06	5.915E-07	2.774E-08	.000E 00
350.0 - 400.0	5.030E-06	2.703E-06	4.392E-07	1.441E-08	.000E 00
400.0 - 450.0	4.666E-06	1.935E-06	2.992E-07	7.550E-09	1.659E-11
450.0 - 500.0	3.266E-06	1.408E-06	2.527E-07	1.161E-08	5.000E-12
500.0 - 600.0	2.265E-06	1.043E-06	1.981E-07	1.077E-08	6.795E-11
600.0 - 800.0	1.091E-06	5.275E-07	9.500E-08	4.943E-09	1.194E-10
800.0 - 1000.0	4.653E-07	2.355E-07	4.675E-08	1.878E-09	7.475E-11
1000.0 - 1200.0	2.259E-07	9.845E-08	1.909E-08	8.705E-10	6.830E-12
1200.0 - 1500.0	8.915E-08	4.348E-08	9.165E-09	4.318E-10	.000E 00
TOTAL ENERGY DEPOSITION/SEC	8.118E 03	3.795E 03	6.808E 02	2.990E 01	6.822E-01

TABLE XV. TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS RADIAL DISTANCE FROM A POINT-ISOTROPIC GAMMA-RAY SOURCE EMITTING UNIFORMLY IN THE ENERGY INTERVAL FROM 9.0 TO 10.0 MeV

(keV $m^{-3} sec^{-1}$/keV of source energy)

RADIAL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC) .00E 00 - 1.00E-20	1.00E-20 - 2.00E-08	2.00E-08 - 5.00E-08	5.00E-08 - 7.00E-08	7.00E-08 - 1.00E-07	1.00E-07 - 1.50E-07
.0 - 10.0	4.224E 14	2.293E 01	1.109E-01	3.669E-02	4.620E-02	7.310E-03
10.0 - 20.0	6.035E 13	1.929E 00	3.705E-02	1.619E-02	1.919E-02	3.175E-03
20.0 - 40.0	1.381E 13	7.170E-01	9.940E-03	5.005E-03	5.116E-03	3.287E-03
40.0 - 60.0	4.841E 12	3.123E-01	6.645E-03	4.662E-03	3.398E-03	2.288E-03
60.0 - 80.0	2.458E 12	1.714E-01	5.275E-03	1.978E-03	2.861E-03	1.228E-03
80.0 - 100.0	1.284E 12	1.035E-01	3.686E-03	2.694E-03	1.930E-03	1.149E-03
100.0 - 125.0	8.490E 11	5.545E-02	3.773E-03	1.772E-03	1.500E-03	8.625E-04
125.0 - 150.0	4.985E 11	4.257E-02	2.668E-03	1.311E-03	8.125E-04	4.970E-04
150.0 - 175.0	3.507E 11	3.402E-02	2.459E-03	8.305E-04	6.455E-04	3.944E-04
175.0 - 200.0	2.352E 11	2.801E-02	2.337E-03	6.130E-04	5.655E-04	3.525E-04
200.0 - 250.0	1.496E 11	1.403E-02	1.664E-03	5.820E-04	4.369E-04	2.414E-04
250.0 - 300.0	9.305E 10	1.159E-02	1.022E-03	6.315E-04	2.787E-04	1.870E-04
300.0 - 350.0	5.950E 10	6.495E-03	7.105E-04	4.052E-04	2.468E-04	1.360E-04
350.0 - 400.0	3.801E 10	5.350E-03	7.225E-04	2.375E-04	1.940E-04	1.246E-04
400.0 - 450.0	2.539E 10	3.636E-03	4.432E-04	1.981E-04	1.463E-04	9.845E-05
450.0 - 500.0	1.865E 10	3.178E-03	4.364E-04	2.073E-04	1.029E-04	6.145E-05
500.0 - 600.0	1.156E 10	1.870E-03	2.979E-04	1.431E-04	8.020E-05	5.500E-05
600.0 - 800.0	4.817E 09	8.880E-04	1.725E-04	8.705E-05	5.140E-05	3.279E-05
800.0 - 1000.0	1.707E 09	3.467E-04	7.750E-05	4.348E-05	2.798E-05	1.522E-05
1000.0 - 1200.0	6.390E 08	1.694E-04	4.466E-05	1.315E-05	1.631E-05	9.475E-06
1200.0 - 1500.0	2.178E 08	7.200E-05	1.907E-05	8.190E-06	5.740E-06	2.937E-06
TOTAL ENERGY DEPOSITION/SEC	6.679E 19	8.316E 06	1.178E 06	5.378E 05	3.664E 05	2.183E 05

TABLE XV. (Continued)

(keV $m^{-3} sec^{-1}$/keV of source energy)

9.00 TO 10.00 MEV GAMMAS

RADIAL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC) 1.50E-07 - 2.00E-07	2.00E-07 - 3.00E-07	3.00E-07 - 5.00E-07	5.00E-07 - 7.00E-07	7.00E-07 - 1.00E-06	1.00E-06 - 1.50E-06
.0 - 10.0	.000E 00	1.478E-02	.000E 00	4.698E-04	3.198E-04	.000E 00
10.0 - 20.0	7.990E-03	9.230E-04	7.270E-04	5.290E-04	1.455E-04	2.969E-05
20.0 - 40.0	1.956E-03	1.476E-03	7.595E-04	1.718E-04	1.622E-04	6.370E-05
40.0 - 60.0	1.897E-03	6.240E-04	2.974E-04	3.700E-04	6.395E-05	5.165E-05
60.0 - 80.0	7.445E-04	8.180E-04	4.265E-04	1.972E-04	1.097E-04	7.470E-05
80.0 - 100.0	6.945E-04	5.460E-04	3.327E-04	2.127E-04	7.510E-05	4.897E-05
100.0 - 125.0	5.410E-04	3.820E-04	2.416E-04	1.408E-04	9.645E-05	4.804E-05
125.0 - 150.0	5.655E-04	2.995E-04	2.008E-04	1.208E-04	6.625E-05	3.694E-05
150.0 - 175.0	2.807E-04	2.019E-04	1.411E-04	8.150E-05	5.400E-05	3.772E-05
175.0 - 200.0	2.413E-04	1.984E-04	1.191E-04	6.400E-05	4.076E-05	2.869E-05
200.0 - 250.0	2.154E-04	1.429E-04	8.455E-05	5.795E-05	3.602E-05	2.118E-05
250.0 - 300.0	1.440E-04	9.845E-05	6.560E-05	3.906E-05	2.567E-05	1.577E-05
300.0 - 350.0	9.605E-05	8.695E-05	4.835E-05	2.633E-05	2.094E-05	1.228E-05
350.0 - 400.0	7.480E-05	5.315E-05	3.445E-05	2.095E-05	1.404E-05	9.805E-06
400.0 - 450.0	5.275E-05	3.214E-05	2.129E-05	1.410E-05	9.565E-06	7.170E-06
450.0 - 500.0	5.050E-05	2.924E-05	2.011E-05	1.171E-05	7.575E-06	5.480E-06
500.0 - 600.0	3.396E-05	2.464E-05	1.373E-05	8.405E-06	6.190E-06	3.260E-06
600.0 - 800.0	2.073E-05	1.165E-05	7.085E-06	3.931E-06	2.781E-06	1.675E-06
800.0 - 1000.0	9.830E-06	5.185E-06	3.164E-06	1.843E-06	1.225E-06	7.710E-07
1000.0 - 1200.0	5.585E-06	2.781E-06	1.635E-06	9.040E-07	5.810E-07	3.637E-07
1200.0 - 1500.0	2.129E-06	1.378E-06	7.065E-07	3.478E-07	1.865E-07	1.312E-07
TOTAL ENERGY DEPOSITION/SEC	1.451E 05	9.010E 04	5.396E 04	3.122E 04	2.059E 04	1.290E 04

TABLE XV. (Continued)

(keV m^{-3} sec^{-1}/keV of source energy)

9.00 TO 10.00 MEV GAMMAS

RADIAL DISTANCE INTERVAL (METERS)	DELAY TIME (SEC) 1.50E-06 - 2.00E-06	2.00E-06 - 3.00E-06	3.00E-06 - 5.00E-06	5.00E-06 - 7.00E-06	7.00E-06 - 1.00E-05
.0 - 10.0	.000E 00	3.188E-05	.000E 00	.000E 00	.000E 00
10.0 - 20.0	8.570E-06	2.385E-05	7.800E-06	.000E 00	.000E 00
20.0 - 40.0	4.656E-05	2.025E-05	1.649E-06	9.600E-08	.000E 00
40.0 - 60.0	3.181E-05	1.134E-05	1.441E-06	1.893E-07	.000E 00
60.0 - 80.0	4.017E-05	1.003E-05	1.762E-06	4.108E-07	.000E 00
80.0 - 100.0	2.699E-05	1.227E-05	2.145E-06	1.374E-07	.000E 00
100.0 - 125.0	1.786E-05	9.405E-06	1.484E-06	4.958E-08	.000E 00
125.0 - 150.0	2.124E-05	8.365E-06	1.114E-06	5.545E-08	.000E 00
150.0 - 175.0	2.093E-05	8.690E-06	1.285E-06	4.835E-08	.000E 00
175.0 - 200.0	1.940E-05	8.360E-06	1.307E-06	5.665E-08	.000E 00
200.0 - 250.0	1.397E-05	5.710E-06	8.555E-07	6.175E-08	5.635E-09
250.0 - 300.0	9.670E-06	4.237E-06	6.910E-07	2.427E-08	1.448E-09
300.0 - 350.0	7.235E-06	3.400E-06	4.757E-07	2.001E-08	1.305E-09
350.0 - 400.0	5.390E-06	2.573E-06	5.325E-07	2.922E-08	8.340E-11
400.0 - 450.0	4.166E-06	1.935E-06	3.247E-07	2.229E-08	.000E 00
450.0 - 500.0	3.202E-06	1.580E-06	2.581E-07	7.940E-09	.000E 00
500.0 - 600.0	2.177E-06	1.037E-06	1.816E-07	9.605E-09	7.130E-12
600.0 - 800.0	1.030E-06	5.190E-07	9.350E-08	3.115E-09	7.280E-11
800.0 - 1000.0	4.543E-07	2.053E-07	3.940E-08	2.559E-09	4.316E-14
1000.0 - 1200.0	2.109E-07	9.610E-08	1.684E-08	2.669E-10	3.460E-13
1200.0 - 1500.0	7.710E-08	3.697E-08	7.615E-09	1.394E-10	.000E 00
TOTAL ENERGY DEPOSITION/SEC	7.726E 03	3.592E 03	6.279E 02	2.772E 01	4.373E-01

TABLE XVI. TOTAL ENERGY DEPOSITION IN AIR VS RADIAL DISTANCE AND SOURCE ENERGY INTERVAL FOR POINT ISOTROPIC GAMMA-RAY SOURCES

(keV m^{-3}/keV of source energy)

RADIAL DISTANCE INTERVAL (METERS)	PRIMARY GAMMAS SOURCE ENERGY BOUNDS (MEV) 9.00 - 10.00	8.00 - 9.00	7.00 - 8.00	6.00 - 7.00	5.00 - 6.00	4.00 - 5.00
.0 - 10.0	4.690E-06	4.207E-06	4.506E-06	4.651E-06	5.035E-06	5.020E-06
10.0 - 20.0	6.450E-07	5.435E-07	6.070E-07	6.550E-07	7.125E-07	6.485E-07
20.0 - 40.0	1.537E-07	1.507E-07	1.542E-07	1.635E-07	1.700E-07	1.773E-07
40.0 - 60.0	5.555E-08	5.740E-08	5.455E-08	5.690E-08	5.985E-08	6.285E-08
60.0 - 80.0	2.871E-08	2.533E-08	2.662E-08	3.152E-08	3.179E-08	3.180E-08
80.0 - 100.0	1.546E-08	1.546E-08	1.603E-08	1.696E-08	1.723E-08	1.928E-08
100.0 - 125.0	1.005E-08	1.029E-08	1.054E-08	1.076E-08	1.110E-08	1.086E-08
125.0 - 150.0	6.175E-09	6.840E-09	6.110E-09	6.675E-09	7.285E-09	7.715E-09
150.0 - 175.0	4.452E-09	4.513E-09	4.709E-09	4.387E-09	4.827E-09	5.115E-09
175.0 - 200.0	3.144E-09	3.263E-09	3.224E-09	3.157E-09	3.534E-09	3.892E-09
200.0 - 250.0	1.953E-09	2.089E-09	2.169E-09	2.194E-09	2.094E-09	2.321E-09
250.0 - 300.0	1.287E-09	1.272E-09	1.315E-09	1.285E-09	1.409E-09	1.404E-09
300.0 - 350.0	8.175E-10	8.570E-10	8.620E-10	8.270E-10	8.340E-10	8.960E-10
350.0 - 400.0	5.610E-10	5.760E-10	5.500E-10	5.315E-10	5.780E-10	5.875E-10
400.0 - 450.0	3.773E-10	3.826E-10	4.042E-10	3.990E-10	4.042E-10	4.286E-10
450.0 - 500.0	2.940E-10	2.884E-10	2.870E-10	3.080E-10	3.246E-10	3.139E-10
500.0 - 600.0	1.846E-10	1.795E-10	1.857E-10	1.815E-10	1.859E-10	1.837E-10
600.0 - 800.0	8.335E-11	7.925E-11	8.200E-11	8.310E-11	7.730E-11	7.430E-11
800.0 - 1000.0	3.208E-11	3.176E-11	3.188E-11	3.149E-11	2.707E-11	2.568E-11
1000.0 - 1200.0	1.400E-11	1.449E-11	1.227E-11	1.348E-11	1.136E-11	9.480E-12
1200.0 - 1500.0	5.340E-12	5.790E-12	5.075E-12	4.337E-12	4.061E-12	2.878E-12
TOTAL (keV/keV)	9.570E-01	9.593E-01	9.612E-01	9.712E-01	9.788E-01	9.846E-01

TABLE XVI. (Continued)

(keV m^{-3}/keV of source energy)

RADIAL DISTANCE INTERVAL (METERS)	PRIMARY GAMMAS SOURCE ENERGY BOUNDS (MEV) 3.00 - 4.00	2.00 - 3.00	1.00 - 2.00	.50 - 1.00	.10 - .50	.01 - .10
.0 - 10.0	5.770E-06	6.130E-06	7.700E-06	8.610E-06	8.720E-06	3.799E-05
10.0 - 20.0	7.580E-07	8.840E-07	1.037E-06	1.153E-06	1.273E-06	3.060E-06
20.0 - 40.0	1.950E-07	2.148E-07	2.573E-07	2.915E-07	3.142E-07	5.780E-07
40.0 - 60.0	6.730E-08	7.865E-08	9.130E-08	1.101E-07	1.173E-07	1.671E-07
60.0 - 80.0	3.509E-08	4.162E-08	4.584E-08	5.100E-08	6.235E-08	7.190E-08
80.0 - 100.0	2.016E-08	2.202E-08	2.449E-08	3.011E-08	3.418E-08	3.803E-08
100.0 - 125.0	1.142E-08	1.306E-08	1.532E-08	1.849E-08	2.127E-08	1.929E-08
125.0 - 150.0	8.215E-09	8.525E-09	9.715E-09	1.151E-08	1.324E-08	1.040E-08
150.0 - 175.0	5.740E-09	5.525E-09	6.530E-09	7.540E-09	8.615E-09	5.675E-09
175.0 - 200.0	4.147E-09	4.170E-09	4.579E-09	5.035E-09	5.880E-09	3.151E-09
200.0 - 250.0	2.467E-09	2.634E-09	2.861E-09	2.879E-09	3.102E-09	1.419E-09
250.0 - 300.0	1.395E-09	1.478E-09	1.574E-09	1.577E-09	1.545E-09	4.873E-10
300.0 - 350.0	9.285E-10	9.615E-10	9.960E-10	9.200E-10	7.615E-10	1.760E-10
350.0 - 400.0	5.840E-10	5.950E-10	5.850E-10	5.100E-10	3.867E-10	6.620E-11
400.0 - 450.0	4.174E-10	4.118E-10	3.614E-10	3.104E-10	1.928E-10	2.374E-11
450.0 - 500.0	2.955E-10	2.720E-10	2.339E-10	1.932E-10	1.022E-10	8.015E-12
500.0 - 600.0	1.790E-10	1.606E-10	1.257E-10	8.955E-11	4.573E-11	2.068E-12
600.0 - 800.0	6.815E-11	6.110E-11	4.075E-11	2.068E-11	7.515E-12	2.146E-13
800.0 - 1000.0	2.111E-11	1.578E-11	8.770E-12	2.762E-12	4.423E-13	.000E 00
1000.0 - 1200.0	7.310E-12	4.620E-12	2.082E-12	3.696E-13	3.481E-14	.000E 00
1200.0 - 1500.0	2.173E-12	1.368E-12	4.568E-13	7.570E-14	5.310E-15	.000E 00
TOTAL	9.890E-01	9.928E-01	9.965E-01	9.971E-01	9.916E-01	9.697E-01

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