

Complete run for 2000 year

#2155

GENERIC ATMOSPHERIC DOSE CODE-K.F. BUCKERMAN (REVISED 10-1-75)

MODEL PARAMETERS

UNIFORM POPULATION DENSITY (#/MI**2)- 2.35E+02

MILK PRODUCTION DENSITY (L/D/MI**2)- 9.00E+01

VEGETATION-CEREAL DENSITY (KG/D/MI**2)- 1.00E+02

MEAT PRODUCTION DENSITY (KG/D/MI**2)- 6.50E+01

CONSUMPTION OF MEAT (G/D)- 2.50E+02

CONSUMPTION OF VEGETATION (G/D)- 4.00E+02

CONSUMPTION OF MILK (CC/D)- 3.50E+02

DISTANCE TO EAST COAST (MILES)- 1.50E+03

AVERAGE WIND SPEED (METERS/S)- 2.00E+00

DOSE COMMITMENT PERIOD (YEARS)- 1.00E+03

FRACTIONAL NOBLE GAS DAUGHTER DEPOSITION VELOCITY- 3.00E-01

MANNEH OPTION SELECTED- U.S.A., ONLY

EXPONENTIAL POPULATION CHANGE CONSTANTS (1/YR)
 POINT 0.0 U.S. 0.0 WORLD 0.0

EXPONENTIAL POPULATION DISTANCE CONSTANT (1/KM) - 0.0

JOB CONTROL- 1 1 0 1 0 0 0 0 0 0

B210270069 B210222
PDR ADDCK 05000537
PDR

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CRSR fuel reprocessing plant (source term, 6/7/82)

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UML= 1.00E+00 X/Y OR DILU 2.00E-07 DISTANCE TO RECEPTION (KM) 8.00E+00 AVERAGE VELOCITY (M/S) 2.00E+00

GRLEP RH 106	1.20E-05	
GRLEP Tz 125H	1.20E-05	
GRLEP BA 137M	1.60E-04	
GRLEP PR 144	1.50E-03	
GRLEP PR 144A	1.80E-05	
GRLEP PM 148A	1.90E-05	
GRLEP PU 236	3.30E-09	
III J	5.90E+09	0.0
6C 14	1.40E+07	0.0
J6KR 85	5.20E+09	0.0
J8SR 89	2.00E+02	1.00E+00
J8SR 90	7.40E+01	1.00E+00
J9Y 90	7.40E+01	1.00E+00
J9Y 91	1.60E+02	1.00E+00
40Zd 95	7.60E+02	1.00E+00
41Hb 95	1.40E+03	1.00E+00
44aU 103	2.90E+04	1.00E+00
44aU 106	1.20E+05	1.00E+00
45RH 103H	2.60E+04	1.00E+00
51SB 125	4.90E+01	1.00E+00
52TE 127M	2.40E+01	1.00E+00
52TE 127	2.40E+01	1.00E+00
5JI 129	3.70E+02	1.00E+00
5JI 131	3.90E+04	1.00E+00
55CS 134	7.60E+01	1.00E+00
55CS 137	1.70E+02	1.00E+00
58CE 141	1.80E+02	1.00E+00
58CE 144	1.50E+03	1.00E+00
61Pd 147	4.10E+02	1.00E+00
62SM 151	6.40E+00	1.00E+00
63EU 154	5.20E+00	1.00E+00
63EU 155	2.50E+01	1.00E+00
92U 232	3.90E-04	1.00E+00
92U 234	1.60E-03	1.00E+00
92U 235	7.80E-05	1.00E+00
92U 236	1.90E-04	1.00E+00
92U 237	8.40E-02	1.00E+00
92U 238	7.40E-03	1.00E+00
94PU 238	8.10E+01	1.00E+00
94PU 239	2.70E+01	1.00E+00
94PU 240	2.20E+01	1.00E+00
94PU 241	2.60E+03	1.00E+00
94PU 242	4.70E-02	1.00E+00
95AM 241	2.10E+01	1.00E+00
95AM 242M	2.30E-01	1.00E+00
96CM 242	5.40E+02	1.00E+00
96CM 243	3.30E-02	1.00E+00
96CM 244	7.20E-01	1.00E+00
93NP 237	2.10E-04	1.00E+00
91aA 234	7.40E-04	1.00E+00
90TH 228	2.40E-05	1.00E+00
90TH 231	7.80E-06	1.00E+00
90TH 234	7.40E-04	1.00E+00
46	1.11142031E+04	

93 EU 155	4.500+01	6.510+01	4.410-19	8.850-20	1.250-11	4.100-13	4.950-13	5.450-10	3.070-13	4.900-13
92 U 232	3.900-04	4.050-02	1.250-06	4.000-07	0.490+01	2.100+00	2.370+00	2.830-00	1.910+00	1.510+00
90 TH 220	3.900-04	4.050-02	2.050-11	0.110-12	4.040-02	1.350-03	4.020-03	4.020-00	4.340-00	2.090-05
88 BA 224	3.900-04	4.050-02	3.420-13	4.270-13	1.770-15	2.590-16	1.440-18	0.000-00	4.170-20	5.000-19
GRIEF RM										
92 U 234	1.000-03	1.000+00	1.090-23	9.150-24	1.070-13	1.020-14	0.540-17	5.010-18	4.550-18	4.050-17
92 U 235	7.000-05	7.000-02	9.030-11	4.700-11	1.000+00	2.320-04	3.400-04	2.010-05	1.330-05	1.400-04
90 TH 231	7.000-05	7.000-02	4.030-25	4.400-25	1.500-14	4.990-16	1.190-18	2.450-19	1.240-19	1.390-18
91 PA 231	7.000-05	7.000-02	4.030-22	4.400-22	1.790-02	2.000-03	1.000-05	1.270-00	0.470-07	7.440-00
89 AC 227	7.000-05	7.000-02	3.370-12	2.300-12	7.730-02	2.600-03	2.250-20	0.000-00	1.400-09	9.000-21
90 TH 227	7.000-05	7.000-02	1.590-27	1.590-27	1.500-16	5.200-19	1.000-20	0.000-00	9.450-16	2.300-16
88 BA 223	7.000-05	7.000-02	8.250-15	0.250-15	0.250-04	2.750-05	0.610-08	3.030-11	0.640-20	4.280-20
92 U 236	1.900-04	1.900-01	1.490-27	1.490-27	1.490-10	4.900-10	1.550-20	0.000-00	0.640-20	4.280-20
92 U 237	8.000-02	2.240-03	7.750-15	7.750-15	7.750-04	2.900-05	0.000-00	4.400-11	3.400-07	1.190-07
92 U 238	7.000-03	7.400+00	7.750-15	1.490-27	1.490-10	4.900-10	1.740-20	0.000-00	0.000-00	0.950-21
90 TH 234	7.000-03	7.400+00	1.490-27	1.490-27	1.490-10	4.900-10	0.000-00	0.000-00	0.000-00	3.030-00
91 PA 234	7.000-03	7.400+00	7.750-15	7.750-15	7.750-04	2.900-05	1.020-08	1.450-08	2.090-08	1.590-08
94 PU 238	8.100+01	1.040+04	2.240-24	1.090-24	3.050-14	1.220-15	7.770-18	3.900-19	3.030-19	3.390-18
94 PU 239	2.700+01	2.660+04	1.170-11	5.000-12	1.900-11	0.320-05	4.090-05	3.100-00	1.500-00	1.700-05
94 PU 240	2.200+01	2.090+04	5.470-22	3.770-23	1.430-17	1.920-16	1.920-16	8.590-04	8.590-04	9.100-17
94 PU 241	2.000+03	0.940+04	2.500-09	1.700-10	2.000-03	0.070-05	0.950-04	1.740-04	3.990-05	4.250-04
95 AM 241	2.000+03	4.940+04	0.740-23	4.230-23	1.420-12	4.730-14	3.020-16	2.320-17	1.100-17	1.340-16
94 PU 242	4.700-02	4.700+01	4.550-22	2.090-22	1.420-12	4.730-14	2.000-10	0.720-10	1.970-10	0.070-04
95 AM 241	2.100+01	1.000+04	1.820-10	1.740-10	7.350+00	2.400-01	1.050-03	4.000-07	1.030-05	4.220-04
95 AM 242	2.300-01	4.900+01	3.330-23	3.330-23	1.420-12	4.730-14	2.000-10	0.720-10	1.970-10	0.070-04
GRIEF NP										
96 CA 242	5.400+02	3.480+02	1.820-10	1.740-10	7.350+00	2.400-01	1.050-03	4.000-07	1.030-05	4.220-04
94 PU 238	3.400+02	3.400+02	1.820-10	1.740-10	7.350+00	2.400-01	1.050-03	4.000-07	1.030-05	4.220-04
96 CA 243	3.300-02	1.530+00	8.210-19	4.270-19	2.000-09	0.000-09	1.730-12	7.000-10	3.790-10	0.990-10
94 PU 239	3.300-02	1.530+00	4.270-19	4.270-19	2.000-09	0.000-09	1.730-12	7.000-10	3.790-10	0.990-10
96 CA 244	7.200-01	1.830+01	4.270-19	4.270-19	2.000-09	0.000-09	1.730-12	7.000-10	3.790-10	0.990-10

94 PU 240	7.202-01	1.836-01	3.482-24	3.466-24	1.146-14	1.026-17	0.0	1.806-20	4.076-16
93 RP 237	2.102-04	2.102-01	1.812-11	1.812-11	5.936-04	5.302-05	1.826-08	9.376-08	2.142-05
91 PA 233	2.102-04	2.102-01	2.492-21	1.206-14	0.936-13	8.502-18	3.436-08	1.576-19	3.462-18
91 PA 239	7.402-04	8.292-07	5.036-12	0.252-14	4.102-11	4.472-05	0.0	1.026-08	3.812-05
90 TH 228	2.402-05	0.532-05	4.042-24	9.222-25	1.346-15	3.302-18	1.802-08	1.882-13	4.702-14
88 RA 224	2.402-05	0.632-05	6.112-12	4.842-12	4.102-01	2.602-05	1.802-08	1.012-00	2.522-01
GRIEF 88			4.042-24	1.402-26	1.412-19	3.822-27	0.0	6.142-22	1.542-22
90 TH 231	7.802-06	3.202-08	2.312-25	4.132-14	4.132-07	8.072-15	2.442-11	9.302-10	2.412-10
91 PA 231	7.802-06	3.202-08	1.202-12	0.532-26	1.272-17	4.772-19	0.0	1.472-20	1.852-19
89 AC 227	7.802-06	3.202-08	1.202-12	4.432-13	0.612-05	2.402-06	2.732-09	2.602-08	1.032-08
90 TH 227	7.802-06	3.202-08	0.092-26	7.902-26	1.272-17	9.892-21	5.182-20	4.402-20	3.312-20
88 RA 223	7.802-06	3.202-08	5.592-13	4.192-13	0.012-05	2.202-06	0.892-08	3.032-07	2.242-07
90 TH 231	7.802-06	3.202-08	4.672-26	5.982-26	0.112-21	2.042-22	0.0	0.0	0.0
91 PA 231	7.802-06	3.202-08	1.432-13	1.832-15	1.872-08	0.222-10	1.242-11	6.192-12	1.002-10
89 AC 227	7.802-06	3.202-08	4.062-33	3.932-33	1.332-22	4.432-24	0.0	0.0	0.0
90 TH 227	7.802-06	3.202-08	3.012-20	2.062-20	0.912-10	1.212-13	8.422-17	1.022-08	2.502-09
88 RA 223	7.802-06	3.202-08	1.302-33	1.302-33	1.292-22	4.292-24	0.0	0.0	0.0
90 TH 227	7.802-06	3.202-08	0.792-21	0.782-21	0.702-19	2.232-11	2.902-17	3.002-13	1.032-13
88 RA 223	7.802-06	3.202-08	1.302-33	1.302-33	1.292-22	4.292-24	0.0	0.0	0.0
90 TH 234	7.402-04	7.052-05	0.752-21	0.752-21	0.702-19	2.232-11	2.692-17	5.002-13	3.142-14
91 PA 234	7.402-04	7.052-05	5.412-24	9.132-25	1.332-17	4.512-19	1.202-14	4.342-14	1.382-14
			2.732-11	4.602-12	0.822-05	2.272-06	0.0	1.642-19	4.402-14
			5.412-24	9.132-25	1.332-17	4.512-19	0.0	8.282-07	3.442-05
			2.732-11	4.602-12	0.822-05	2.272-06	0.0	1.882-18	4.692-19
			5.412-24	9.132-25	1.332-17	4.512-19	0.0	1.882-18	4.692-19
			2.732-11	4.602-12	0.822-05	2.272-06	1.792-30	9.402-26	2.372-26

crbc fuel reprocessing plant (source term, 6/7/84)

** POPULATION DOSE COMMITMENT (MAREP) **
 ** D O S E S U M M A R Y **

PATHWAY	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUVE	3.61E-01 0.252K	3.61E-01 0.132K	3.61E-01 0.066K	3.61E-01 0.251K	3.61E-01 0.246K	3.61E-01 0.234K	7.90E-01 0.543K	3.07E+01 17.403K
GROUND	3.19E-01 0.223K	3.19E-01 0.117K	3.19E-01 0.076K	3.19E-01 0.222K	3.19E-01 0.217K	3.19E-01 0.207K	3.19E-01 0.222K	3.19E-01 0.184K
INHALEIN	3.42E+01 23.919K	3.42E+01 12.513K	3.47E+01 9.203K	3.47E+01 24.229K	3.47E+01 23.648K	3.42E+01 22.233K	3.47E+01 24.139K	3.41E+01 19.731K
T. OLEF	1.08E+02 75.607K	2.38E+02 87.238K	3.81E+02 90.635K	3.08E+02 75.297K	1.11E+02 75.889K	3.19E+02 77.325K	1.08E+02 75.097K	1.08E+02 62.924K
TOTAL	1.43E+02	2.73E+02	4.20E+02	1.43E+02	1.47E+02	1.54E+02	1.44E+02	1.73E+02

** POPULATION PATHWAY SUMMARY **

**PLUME PATHWAY DOSE COMMITMENT (MANREN) **

NUCLIDE	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
KR 85	3.61E-01 100.000%	3.61E-01 100.000%	3.61E-01 100.000%	3.61E-01 100.000%	3.61E-01 100.000%	3.61E-01 100.000%	7.80E-01 100.000%	3.05E+01 100.000%
TOTAL	3.61E-01	3.61E-01	3.61E-01	3.61E-01	3.61E-01	3.61E-01	7.80E-01	3.05E+01

** POPULATION AIRWAY SUMMARY **

**INHALATION AIRWAY DOSE COMMITMENT (MANHOUR) **

NUCLIDE	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
H 3	3.41E+01 99.684%	3.41E+01 99.872%	3.41E+01 88.193%	3.41E+01 98.212%	3.41E+01 98.457%	3.41E+01 99.663%	3.41E+01 98.336%	3.41E+01 100.000%
SR 89	1.70E-06 0.0 %	2.24E-05 0.0 %	7.73E-05 0.0 %	0.0 0.0 %	0.0 0.0 %	0.0 0.0 %	1.12E-04 0.0 %	0.0 0.0 %
SR 90	7.56E-05 0.0 %	8.69E-06 0.0 %	3.86E-03 0.010%	0.0 0.0 %	0.0 0.0 %	0.0 0.0 %	2.61E-04 0.0 %	0.0 0.0 %
Y 90	8.44E-08 0.0 %	8.44E-06 0.0 %	2.53E-06 0.0 %	0.0 0.0 %	0.0 0.0 %	0.0 0.0 %	2.53E-06 0.0 %	0.0 0.0 %
Y 91	8.54E-06 0.0 %	4.10E-05 0.0 %	4.10E-04 0.001%	0.0 0.0 %	0.0 0.0 %	0.0 0.0 %	2.05E-04 0.0 %	0.0 0.0 %
ZR 95	3.78E-05 0.0 %	4.77E-05 0.0 %	1.51E-04 0.0 %	5.13E-05 0.0 %	7.57E-05 0.0 %	0.0 0.0 %	4.64E-04 0.001%	0.0 0.0 %
NB 95	1.24E-05 0.0 %	3.71E-05 0.0 %	4.95E-05 0.0 %	2.47E-05 0.0 %	2.47E-05 0.0 %	0.0 0.0 %	2.47E-04 0.0 %	0.0 0.0 %
RU 103	5.79E-05 0.0 %	1.56E-03 0.005%	1.56E-04 0.0 %	0.0 0.0 %	5.21E-04 0.002%	0.0 0.0 %	5.21E-03 0.015%	0.0 0.0 %
RU 106	8.89E-04 0.003%	4.00E-02 0.117%	8.00E-03 0.021%	0.0 0.0 %	1.60E-02 0.046%	0.0 0.0 %	4.00E-01 1.153%	0.0 0.0 %
RB 103M	1.76E-09 0.0 %	2.63E-07 0.0 %	3.51E-09 0.0 %	2.63E-09 0.0 %	1.32E-08 0.0 %	0.0 0.0 %	5.27E-08 0.0 %	0.0 0.0 %
SB 125	2.81E-07 0.0 %	1.12E-05 0.0 %	6.74E-06 0.0 %	1.68E-07 0.0 %	0.0 0.0 %	1.35E-07 0.0 %	1.12E-05 0.0 %	0.0 0.0 %
TE 127M	1.24E-07 0.0 %	2.01E-06 0.0 %	9.90E-07 0.0 %	3.71E-07 0.0 %	2.96E-06 0.0 %	2.99E-07 0.0 %	1.47E-05 0.0 %	0.0 0.0 %
TE 127	5.68E-10 0.0 %	1.14E-07 0.0 %	3.41E-09 0.0 %	1.14E-09 0.0 %	8.53E-09 0.0 %	1.71E-09 0.0 %	1.14E-08 0.0 %	0.0 0.0 %
I 129	1.24E-05 0.0 %	7.74E-06 0.0 %	0.0 0.0 %	0.0 0.0 %	0.0 0.0 %	8.25E-03 0.024%	1.55E-04 0.0 %	0.0 0.0 %
I 131	2.13E-04 0.0 %	1.66E-03 0.005%	0.0 0.0 %	0.0 0.0 %	0.0 0.0 %	1.07E-01 0.313%	1.66E-03 0.005%	0.0 0.0 %
CS 134	1.73E-05 0.0 %	7.42E-06 0.0 %	1.04E-05 0.0 %	2.60E-05 0.0 %	8.66E-06 0.0 %	0.0 0.0 %	1.30E-04 0.0 %	0.0 0.0 %

CS 137	2.00E-05	1.50E-05	3.43E-05	4.00E-05	1.50E-05	0.0	2.40E-04	0.0
	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
CB 141	7.88E-07	4.73E-06	9.46E-06	4.73E-06	3.15E-06	0.0	1.89E-05	0.0
	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
CE 144	3.29E-04	4.94E-04	6.59E-03	2.47E-03	1.41E-03	0.0	4.94E-03	0.0
	0.0 %	0.001%	0.017%	0.007%	0.004%	0.0 %	0.014%	0.0 %
PH 147	9.39E-06	7.04E-06	2.92E-04	2.82E-05	4.02E-05	0.0	9.39E-05	0.0
	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
SM 151	1.53E-07	5.75E-08	4.60E-06	6.57E-07	7.66E-07	0.0	9.20E-07	0.0
	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
EO 154	3.04E-06	9.12E-07	7.29E-05	5.21E-06	3.65E-05	0.0	1.82E-05	0.0
	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
EO 155	1.14E-06	4.26E-07	1.14E-05	2.13E-06	5.66E-06	0.0	5.66E-06	0.0
	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
U 232	1.14E-08	7.56E-11	2.71E-07	1.28E-09	2.03E-08	0.0	3.74E-07	0.0
	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
U 234	7.43E-09	2.23E-10	1.34E-07	0.0	3.35E-08	0.0	3.35E-07	0.0
	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
U 235	6.68E-10	1.44E-11	1.48E-08	5.76E-10	4.30E-09	0.0	1.65E-08	0.0
	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
U 236	8.83E-10	2.65E-11	1.59E-08	0.0	3.97E-09	0.0	3.97E-08	0.0
	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
U 237	4.83E-11	0.0	1.29E-10	0.0	6.00E-10	0.0	1.20E-09	0.0
	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
U 238	3.45E-08	1.86E-09	6.22E-07	1.29E-10	2.06E-06	0.0	1.24E-06	0.0
	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
PU 238	3.88E-02	1.16E-05	1.66E+00	1.94E-01	1.45E-01	0.0	5.81E-02	0.0
	0.11%	0.0 %	4.29%	0.55%	0.41%	0.0 %	0.16%	0.0 %
PU 239	1.50E-02	4.51E-06	7.51E-01	1.33E-01	7.51E-02	0.0	4.25E-02	0.0
	0.04%	0.0 %	1.94%	0.32%	0.21%	0.0 %	0.08%	0.0 %
PU 240	1.22E-02	3.63E-06	6.08E-01	9.13E-02	6.08E-02	0.0	1.83E-02	0.0
	0.03%	0.0 %	1.57%	0.26%	0.17%	0.0 %	0.05%	0.0 %
PU 241	2.38E-02	1.02E-05	1.27E+00	7.67E-02	1.18E-01	0.0	3.17E-03	0.0
	0.07%	0.0 %	3.27%	0.22%	0.34%	0.0 %	0.00%	0.0 %
PU 242	2.62E-05	7.80E-09	1.31E-05	1.31E-04	1.31E-04	0.0	3.93E-05	0.0
	0.0 %	0.0 %	0.00%	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
AM 241	1.08E-02	3.24E-06	1.62E-01	5.39E-02	8.09E-02	0.0	4.05E-03	0.0
	0.03%	0.0 %	0.41%	0.15%	0.23%	0.0 %	0.01%	0.0 %
AM 242B	1.12E-04	6.39E-09	1.68E-03	5.60E-04	6.39E-04	0.0	1.87E-05	0.0
	0.0 %	0.0 %	0.00%	0.00%	0.00%	0.0 %	0.0 %	0.0 %

CM 242	5.30E-03	0.57E-05	9.21E-02	8.04E-02	3.48E-02	5.73E-02	0.0	0.0	0.0
	0.017%	0.0	0.238%	0.249%	0.100%	0.165%	0.0	0.0	0.0
CM 243	1.11E-05	5.02E-09	2.33E-04	7.77E-05	5.02E-05	7.77E-06	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CM 244	1.07E-04	1.01E-07	3.30E-03	1.20E-03	8.43E-04	1.09E-04	0.0	0.0	0.0
	0.0	0.0	0.009%	0.004%	0.002%	0.0	0.0	0.0	0.0
MP 237	9.76E-08	3.80E-11	3.21E-06	2.20E-07	8.78E-07	4.39E-08	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PA 234	3.26E-14	0.0	1.21E-13	3.78E-14	1.36E-13	5.94E-13	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TH 228	2.74E-09	1.00E-11	1.09E-07	1.64E-09	8.19E-09	8.22E-08	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TH 231	1.43E-15	4.05E-14	3.25E-14	1.78E-15	8.09E-15	9.94E-15	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TH 234	1.30E-11	1.24E-10	3.72E-10	1.33E-11	1.24E-10	3.03E-10	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	3.42E+01	3.42E+01	3.87E+01	3.47E+01	3.47E+01	3.47E+01	3.42E+01	3.42E+01	3.42E+01

Y 90	MILK	2.84E-11	1.28E-07	1.28E-11	0.0	0.0	0.0	0.0	0.0
		0.642%	0.642%	0.642%	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
	VEGATION	3.16E-11	1.42E-05	1.42E-09	0.0	0.0	0.0	0.0	0.0
		71.371%	71.371%	71.371%	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
Y 91	MILK	1.24E-11	5.57E-06	5.57E-10	0.0	0.0	0.0	0.0	0.0
		27.986%	27.987%	27.987%	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
	VEGATION	1.05E-07	2.10E-03	4.20E-06	0.0	0.0	0.0	0.0	0.0
		69.877%	69.877%	69.877%	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
ZR 95	MILK	9.41E-09	1.10E-04	3.21E-08	1.86E-08	1.86E-08	0.0	0.0	0.0
		0.395%	0.730%	0.437%	0.490%	0.490%	0.0 %	0.0 %	0.0 %
	VEGATION	4.79E-07	2.51E-03	1.44E-06	7.26E-07	7.26E-07	0.0	0.0	0.0
		20.101%	16.716%	19.677%	19.144%	19.144%	0.0 %	0.0 %	0.0 %
NU 95	MILK	1.89E-06	1.24E-02	5.86E-06	3.05E-06	3.05E-06	0.0	0.0	0.0
		79.504%	82.554%	79.886%	80.366%	80.366%	0.0 %	0.0 %	0.0 %
	VEGATION	1.60E-07	1.92E-03	5.49E-07	3.20E-07	3.20E-07	0.0	0.0	0.0
		3.733%	3.733%	3.733%	3.733%	3.733%	0.0 %	0.0 %	0.0 %
RU 103	MILK	4.04E-06	4.85E-02	1.39E-05	8.06E-06	8.06E-06	0.0	0.0	0.0
		94.254%	94.254%	94.254%	94.254%	94.254%	0.0 %	0.0 %	0.0 %
	VEGATION	1.77E-04	5.32E-02	4.26E-04	0.0	1.42E-03	0.0	0.0	0.0
		2.684%	2.684%	2.684%	0.0 %	2.684%	0.0 %	0.0 %	0.0 %
RU 103	MILK	6.43E-03	1.93E+00	1.54E-02	0.0	5.15E-02	0.0	0.0	0.0
		97.316%	97.316%	97.316%	0.0 %	97.316%	0.0 %	0.0 %	0.0 %
	VEGATION	1.77E-04	5.32E-02	4.26E-04	0.0	1.42E-03	0.0	0.0	0.0
		2.684%	2.684%	2.684%	0.0 %	2.684%	0.0 %	0.0 %	0.0 %
RU 103	MILK	6.61E-03	1.98E+00	1.59E-02	0.0	5.29E-02	0.0	0.0	0.0
		0.006%	0.832%	0.004%	0.0 %	0.048%	0.0 %	0.0 %	0.0 %
	VEGATION	1.77E-04	5.32E-02	4.26E-04	0.0	1.42E-03	0.0	0.0	0.0
		2.684%	2.684%	2.684%	0.0 %	2.684%	0.0 %	0.0 %	0.0 %

U 238

MILK	9.53E-09 0.308%	7.20E-09 2.855%	1.14E-07 0.306%	2.76E-15 0.040%	4.77E-07 0.308%	0.0	0.0	0.0
VEGATION	1.38E-07 91.37%	2.42E-07 95.749%	1.66E-06 91.376%	6.90E-12 99.334%	6.50E-06 91.377%	0.0	0.0	0.0
MEAT	3.50E-09 2.315%	3.52E-09 1.396%	4.20E-08 2.315%	4.49E-14 0.646%	1.75E-07 2.315%	0.0	0.0	0.0
T. DIET	1.51E-07 0.0	2.52E-07 0.0	1.81E-06 0.0	6.95E-12 0.0	7.56E-06 0.0	0.0	0.0	0.0

PU 238

MILK	7.82E-08 0.039%	3.13E-07 0.039%	3.76E-06 0.039%	4.69E-07 0.039%	3.13E-07 0.039%	0.0	0.0	0.0
VEGATION	1.99E-04 99.820%	7.97E-04 99.820%	9.56E-03 99.820%	1.20E-03 99.820%	7.97E-04 99.820%	0.0	0.0	0.0
MEAT	2.81E-07 0.141%	1.12E-06 0.141%	1.35E-05 0.141%	1.69E-06 0.141%	1.12E-06 0.141%	0.0	0.0	0.0
T. DIET	2.00E-04 0.0	7.98E-04 0.0	9.58E-03 0.003%	1.20E-03 0.001%	7.98E-04 0.0	0.0	0.0	0.0

PU 239

MILK	4.10E-08 0.038%	1.23E-07 0.038%	1.47E-06 0.038%	1.84E-07 0.038%	1.84E-07 0.038%	0.0	0.0	0.0
VEGATION	1.08E-04 99.826%	3.25E-04 99.826%	3.91E-03 99.826%	4.88E-04 99.826%	4.68E-04 99.826%	0.0	0.0	0.0
MEAT	1.48E-07 0.136%	4.44E-07 0.136%	5.33E-06 0.136%	6.66E-07 0.136%	6.66E-07 0.136%	0.0	0.0	0.0
T. DIET	1.09E-04 0.0	3.26E-04 0.0	3.91E-03 0.001%	4.89E-04 0.0	4.89E-04 0.0	0.0	0.0	0.0

PU 240

MILK	3.32E-08 0.038%	9.95E-08 0.038%	1.19E-06 0.038%	1.45E-07 0.038%	1.49E-07 0.038%	0.0	0.0	0.0
VEGATION	8.77E-05 99.826%	2.63E-04 99.826%	3.16E-03 99.826%	3.95E-04 99.826%	3.95E-04 99.826%	0.0	0.0	0.0
MEAT	1.20E-07 0.136%	3.59E-07 0.136%	4.31E-06 0.136%	5.39E-07 0.136%	5.39E-07 0.136%	0.0	0.0	0.0
T. DIET	8.79E-05 0.0	2.64E-04 0.0	3.16E-03 0.0	3.95E-04 0.0	3.95E-04 0.0	0.0	0.0	0.0

PU 241

MILK	1.28E-07 0.056%	3.72E-07 0.044%	3.87E-06 0.045%	4.36E-07 0.063%	8.65E-07 0.058%	0.0	0.0	0.0
VEGATION	2.25E-04 99.129%	8.42E-04 99.634%	8.62E-03 99.602%	6.81E-04 98.846%	1.50E-03 99.044%	0.0	0.0	0.0
MEAT	1.85E-06 0.815%	2.72E-06 0.322%	3.06E-05 0.353%	7.51E-06 1.091%	1.36E-05 0.897%	0.0	0.0	0.0
T. DIET	2.27E-04 0.0	8.45E-04 0.0	8.65E-03 0.002%	6.89E-04 0.0	1.51E-03 0.001%	0.0	0.0	0.0

CM 244	MILK	3.40E-09 0.095%	6.81E-09 0.095%	5.83E-08 0.095%	2.27E-08 0.095%	2.04E-08 0.095%	0.0	0.0	0.0
	VEGATION	3.49E-06 97.945%	6.98E-06 97.945%	5.99E-05 97.946%	2.33E-05 97.945%	2.09E-05 97.945%	0.0	0.0	0.0
	MEAT	6.98E-08 1.960%	1.40E-07 1.959%	1.20E-06 1.959%	4.66E-07 1.960%	4.19E-07 1.960%	0.0	0.0	0.0
	T. DIET	3.50E-06 0.0 %	7.13E-06 0.0 %	6.11E-05 0.0 %	2.38E-05 0.0 %	2.14E-05 0.0 %	0.0	0.0	0.0
NP 237	MILK	2.71E-12 0.056%	2.97E-12 0.0 %	5.41E-11 0.064%	4.06E-12 0.059%	1.35E-11 0.058%	0.0	0.0	0.0
	VEGATION	3.92E-09 81.631%	4.46E-09 0.026%	7.84E-08 92.728%	5.88E-09 86.044%	1.96E-08 83.926%	0.0	0.0	0.0
	MEAT	8.79E-10 18.313%	1.72E-05 99.974%	6.09E-09 7.208%	9.49E-10 13.897%	3.74E-09 16.016%	0.0	0.0	0.0
	T. DIET	4.80E-09 0.0 %	1.72E-05 0.0 %	8.45E-08 0.0 %	6.83E-09 0.0 %	2.33E-08 0.0 %	0.0	0.0	0.0
PA 234	MILK	9.99E-22 3.505%	0.0 0.0 %	4.90E-21 3.505%	1.80E-21 3.505%	4.16E-21 3.505%	0.0	0.0	0.0
	VEGATION	4.03E-25 0.001%	0.0 0.0 %	1.98E-24 0.001%	4.45E-25 0.001%	1.68E-24 0.001%	0.0	0.0	0.0
	MEAT	2.75E-20 96.493%	0.0 0.0 %	1.35E-19 96.493%	3.03E-20 96.493%	1.15E-19 96.493%	0.0	0.0	0.0
	T. DIET	2.85E-20 0.0 %	0.0 0.0 %	1.40E-19 0.0 %	3.14E-20 0.0 %	1.19E-19 0.0 %	0.0	0.0	0.0
TH 228	MILK	9.39E-11 41.398%	1.21E-10 13.677%	8.46E-10 24.562%	3.23E-14 0.097%	1.62E-13 0.097%	0.0	0.0	0.0
	VEGATION	7.43E-11 32.759%	6.78E-10 76.507%	2.04E-09 59.329%	3.26E-11 97.938%	1.63E-10 97.938%	0.0	0.0	0.0
	MEAT	5.86E-11 25.843%	8.70E-11 9.816%	5.55E-10 16.109%	6.55E-13 1.965%	3.27E-12 1.965%	0.0	0.0	0.0
	T. DIET	2.27E-10 0.0 %	3.87E-10 0.0 %	3.45E-09 0.0 %	3.33E-11 0.0 %	1.67E-10 0.0 %	0.0	0.0	0.0
TH 231	MILK	1.99E-17 0.003%	1.52E-16 3.026%	8.59E-17 0.0 %	2.91E-20 0.0 %	1.06E-19 0.0 %	0.0	0.0	0.0
	VEGATION	5.24E-17 0.004%	3.13E-15 0.533%	9.61E-16 0.002%	5.49E-17 0.003%	1.69E-16 0.002%	0.0	0.0	0.0
	MEAT	1.46E-12 99.995%	5.84E-13 99.441%	3.89E-11 99.997%	1.75E-12 99.997%	8.75E-12 99.998%	0.0	0.0	0.0
	T. DIET	1.46E-12 0.0 %	5.87E-13 0.0 %	3.89E-11 0.0 %	1.75E-12 0.0 %	8.75E-12 0.0 %	0.0	0.0	0.0

MILK	1.012-10	4.556-12	3.642-13	2.270-16	1.302-15	0.0	0.0	0.0	0.0
	0.111K	0.111K	0.111K	0.111K	0.111K	0.0	0.0	0.0	0.0
VEGETATION	8.936-14	4.026-09	3.446-12	2.016-13	1.152-12	0.0	0.0	0.0	0.0
	98.159K	98.159K	98.159K	98.159K	98.159K	0.0	0.0	0.0	0.0
MEAT	1.572-15	7.096-11	5.672-14	3.542-15	2.022-14	0.0	0.0	0.0	0.0
	1.730K	1.730K	1.730K	1.730K	1.730K	0.0	0.0	0.0	0.0
1. DIET	9.102-14	4.102-09	3.402-12	2.052-13	1.172-12	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	1.002+02	2.382+02	3.512+02	1.002+02	1.112+02	1.192+02	1.002+02	1.002+02	1.002+02

** DOSE SUMMARY BY NUCLIDE-ALL PATHWAYS **
 ** POPULATION DOSE COMMITMENT (MARENS) **

NUCLIDE	T-BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
H 3	7.45E+01 52.060%	7.45E+01 27.207%	7.45E+01 17.722%	7.45E+01 51.956%	7.45E+01 50.836%	7.45E+01 40.381%	7.45E+01 51.826%	7.45E+01 43.081%
C 14	6.76E+01 47.215%	6.76E+01 24.748%	3.38E+02 80.363%	6.76E+01 47.121%	6.76E+01 46.106%	6.76E+01 43.879%	6.76E+01 47.005%	6.76E+01 39.072%
KR 85	3.61E-01 0.252%	3.61E-01 0.132%	3.61E-01 0.086%	3.61E-01 0.251%	3.61E-01 0.246%	3.61E-01 0.234%	7.80E-01 0.543%	3.05E+01 17.663%
SR 89	5.20E-05 0.0 %	1.38E-03 0.0 %	2.47E-03 0.0 %	0.0 0.0 %	0.0 0.0 %	0.0 0.0 %	1.12E-04 0.0 %	0.0 0.0 %
SR 90	3.85E-03 0.003%	6.20E-04 0.0 %	1.89E-01 0.045%	0.0 0.0 %	0.0 0.0 %	0.0 0.0 %	2.61E-04 0.0 %	0.0 0.0 %
Y 90	8.44E-08 0.0 %	2.83E-05 0.0 %	2.53E-06 0.0 %	0.0 0.0 %	0.0 0.0 %	0.0 0.0 %	2.53E-06 0.0 %	0.0 0.0 %
Y 91	1.11E-05 0.0 %	3.05E-03 0.001%	4.18E-04 0.0 %	2.42E-06 0.0 %	2.42E-06 0.0 %	2.42E-06 0.0 %	2.07E-04 0.0 %	2.42E-06 0.0 %
ZR 95	3.27E-03 0.002%	1.83E-02 0.007%	3.39E-03 0.0 %	3.29E-03 0.002%	3.31E-03 0.002%	3.23E-03 0.002%	3.70E-03 0.003%	3.23E-03 0.002%
NB 95	1.59E-03 0.001%	5.31E-02 0.019%	1.64E-03 0.0 %	1.61E-03 0.001%	1.61E-03 0.001%	1.58E-03 0.001%	1.83E-03 0.001%	1.58E-03 0.0 %
RU 103	3.25E-02 0.023%	2.01E+00 0.736%	4.18E-02 0.010%	2.58E-02 0.018%	7.92E-02 0.054%	2.58E-02 0.017%	3.10E-02 0.022%	2.58E-02 0.015%
RU 106	2.14E-01 0.150%	1.28E+02 46.939%	2.57E+00 0.411%	0.0 0.0 %	3.22E+00 2.196%	0.0 0.0 %	4.00E-01 0.278%	0.0 0.0 %
RU 103M	8.21E-09 0.0 %	2.70E-07 0.0 %	9.96E-09 0.0 %	9.08E-09 0.0 %	1.96E-08 0.0 %	6.45E-09 0.0 %	5.91E-08 0.0 %	6.45E-09 0.0 %
SB 125	1.12E-03 0.0 %	2.28E-03 0.0 %	1.20E-03 0.0 %	1.12E-03 0.0 %	1.11E-03 0.0 %	1.12E-03 0.0 %	1.13E-03 0.0 %	1.11E-03 0.0 %
TE 127M	2.95E-05 0.0 %	6.00E-04 0.0 %	2.42E-04 0.0 %	9.65E-05 0.0 %	7.99E-04 0.0 %	5.08E-05 0.0 %	1.77E-05 0.0 %	2.95E-05 0.0 %
TE 127	1.17E-09 0.0 %	1.19E-07 0.0 %	4.08E-09 0.0 %	1.75E-09 0.0 %	9.37E-09 0.0 %	2.34E-09 0.0 %	1.20E-08 0.0 %	5.85E-10 0.0 %
I 129	2.00E-01 0.140%	1.92E-01 0.070%	1.92E-01 0.040%	1.92E-01 0.134%	1.92E-01 0.131%	5.64E+00 3.601%	1.92E-01 0.134%	1.92E-01 0.111%

I 131	1.68E-02 0.012%	1.29E-02 0.005%	5.00E-03 0.001%	5.00E-03 0.003%	5.00E-03 0.003%	5.80E+00 3.76%	6.66E-03 0.005%	5.00E-03 0.003%
CS 134	6.66E-03 0.005%	4.10E-03 0.002%	6.19E-03 0.001%	1.16E-02 0.008%	5.91E-03 0.004%	3.94E-03 0.003%	4.85E-03 0.003%	3.94E-03 0.004%
CS 137	5.18E-02 0.036%	4.86E-02 0.018%	5.64E-02 0.013%	5.63E-02 0.041%	5.25E-02 0.036%	4.85E-02 0.032%	4.96E-02 0.035%	4.85E-02 0.028%
CS 141	2.20E-05 0.0 %	3.54E-04 0.0 %	3.08E-05 0.0 %	2.60E-05 0.0 %	2.44E-05 0.0 %	2.12E-05 0.0 %	4.01E-05 0.0 %	2.12E-05 0.0 %
CS 144	1.30E-03 0.0 %	4.84E-02 0.018%	7.66E-03 0.002%	3.48E-03 0.002%	2.46E-03 0.002%	9.62E-04 0.0 %	5.90E-03 0.004%	9.62E-04 0.0 %
PH 147	9.67E-06 0.0 %	8.46E-04 0.0 %	2.88E-04 0.0 %	2.87E-05 0.0 %	4.11E-05 0.0 %	0.0 0.0 %	9.19E-05 0.0 %	0.0 0.0 %
SA 151	6.07E-07 0.0 %	8.11E-06 0.0 %	5.17E-06 0.0 %	1.12E-06 0.0 %	1.23E-06 0.0 %	4.49E-07 0.0 %	1.37E-06 0.0 %	4.49E-07 0.0 %
EU 154	1.75E-03 0.001%	1.86E-03 0.0 %	1.82E-03 0.0 %	1.75E-03 0.001%	1.78E-03 0.001%	1.74E-03 0.001%	1.76E-03 0.001%	1.74E-03 0.001%
EU 155	5.44E-05 0.0 %	1.04E-04 0.0 %	6.48E-05 0.0 %	5.54E-05 0.0 %	5.96E-05 0.0 %	5.32E-05 0.0 %	5.49E-05 0.0 %	5.32E-05 0.0 %
U 232	4.80E-08 0.0 %	2.03E-08 0.0 %	6.38E-07 0.0 %	1.45E-08 0.0 %	6.84E-08 0.0 %	1.31E-08 0.0 %	3.47E-07 0.0 %	1.31E-08 0.0 %
U 234	1.09E-07 0.0 %	1.02E-07 0.0 %	6.93E-07 0.0 %	6.92E-08 0.0 %	2.07E-07 0.0 %	6.92E-08 0.0 %	4.04E-07 0.0 %	6.92E-08 0.0 %
U 235	9.96E-07 0.0 %	5.75E-07 0.0 %	1.90E-05 0.0 %	1.13E-06 0.0 %	4.52E-06 0.0 %	2.92E-07 0.0 %	3.49E-07 0.0 %	2.92E-07 0.0 %
U 236	1.03E-08 0.0 %	3.43E-09 0.0 %	6.80E-08 0.0 %	5.52E-09 0.0 %	2.11E-08 0.0 %	5.52E-09 0.0 %	4.53E-08 0.0 %	5.52E-09 0.0 %
U 237	6.76E-09 0.0 %	6.69E-09 0.0 %	6.87E-09 0.0 %	6.69E-09 0.0 %	7.51E-09 0.0 %	6.69E-09 0.0 %	7.89E-09 0.0 %	6.69E-09 0.0 %
U 238	1.54E-06 0.0 %	1.61E-06 0.0 %	3.79E-06 0.0 %	1.35E-06 0.0 %	1.10E-05 0.0 %	1.35E-06 0.0 %	2.60E-06 0.0 %	1.35E-06 0.0 %
PU 238	3.93E-02 0.027%	1.12E-03 0.0 %	1.67E+00 0.397%	1.95E-01 0.136%	1.46E-01 0.100%	3.06E-04 0.0 %	5.84E-02 0.044%	3.06E-04 0.0 %
PU 239	1.35E-02 0.011%	6.61E-04 0.0 %	7.55E-01 0.180%	1.13E-01 0.079%	7.55E-02 0.052%	3.30E-04 0.0 %	2.29E-02 0.016%	3.30E-04 0.0 %
PU 240	1.28E-02 0.009%	8.06E-04 0.0 %	6.12E-01 0.146%	9.22E-02 0.064%	6.16E-02 0.042%	5.39E-04 0.0 %	1.48E-02 0.013%	5.39E-04 0.0 %
PU 241	5.00E-02 0.035%	2.68E-02 0.010%	1.30E+00 0.310%	1.05E-01 0.073%	1.46E-01 0.099%	2.60E-02 0.017%	2.91E-02 0.020%	2.60E-02 0.015%
PU 242	2.75E-05 0.0 %	1.73E-06 0.0 %	1.32E-03 0.0 %	1.33E-04 0.0 %	1.33E-04 0.0 %	1.16E-06 0.0 %	4.05E-05 0.0 %	1.16E-06 0.0 %

AM 241	1.64E-02	7.59E-03	1.72E-01	6.23E-02	9.00E-02	7.35E-03	1.14E-02	7.35E-03
	0.013%	0.003%	0.041%	0.043%	0.061%	0.005%	0.008%	0.004%
AM 242M	1.14E-04	7.96E-07	1.71E-03	5.70E-04	8.53E-04	0.0	1.87E-05	0.0
	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
CM 242	5.97E-03	6.52E-03	9.35E-02	8.78E-02	3.53E-02	1.93E-05	5.73E-02	1.93E-05
	0.004%	0.002%	0.022%	0.021%	0.024%	0.0 %	0.040%	0.0 %
CM 243	1.16E-05	6.34E-07	2.37E-04	7.92E-05	5.96E-05	3.27E-07	8.10E-06	3.27E-07
	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
CM 244	1.34E-04	1.03E-05	3.44E-03	1.29E-03	8.68E-04	3.04E-06	1.72E-04	3.04E-06
	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
NP 237	9.71E-07	1.81E-05	4.47E-06	1.10E-06	1.77E-06	8.69E-07	9.13E-07	8.69E-07
	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
PA 234	7.21E-12	7.18E-12	7.33E-12	7.21E-12	7.31E-12	7.10E-12	7.77E-12	7.18E-12
	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
TH 228	2.98E-09	9.21E-10	1.13E-07	1.69E-09	8.37E-09	1.78E-11	8.23E-08	1.78E-11
	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
TH 231	1.48E-12	6.57E-13	1.90E-11	1.77E-12	8.78E-12	2.18E-14	3.18E-14	2.18E-14
	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
TH 234	2.37E-11	4.23E-09	3.86E-10	3.01E-11	1.36E-10	1.05E-11	3.94E-10	1.05E-11
	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
TOTAL	1.43E+02	2.73E+02	4.20E+02	1.43E+02	1.47E+02	1.54E+02	1.44E+02	1.73E+02

NUCLIDE GROUP	POPULATION DOSE (MANNEB)							
	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
TRITIUM	7.45E+01	7.45E+01	7.45E+01	7.45E+01	7.45E+01	7.45E+01	7.45E+01	7.45E+01
RADIOCARBON	6.76E+01	6.76E+01	3.36E+02	6.76E+01	6.76E+01	6.76E+01	6.76E+01	6.76E+01
RADIOIODINE	2.17E-01	2.05E-01	1.97E-01	1.97E-01	1.97E-01	1.84E+01	1.99E-01	1.97E-01
URANIUM	2.71E-06	2.32E-06	2.42E-05	2.59E-06	1.58E-05	1.74E-06	3.75E-06	1.74E-06
-NOBLE GASES - KRYPTON-85	3.61E-01	3.61E-01	3.61E-01	3.61E-01	3.61E-01	3.61E-01	7.80E-01	3.05E+01
-TRANSURANICS - PLUTONIUM	1.10E-01	2.94E-02	4.34E+00	5.06E-01	4.30E-01	2.71E-02	1.29E-01	2.71E-02
OTHERS	2.47E-02	1.41E-02	2.71E-01	1.52E-01	1.27E-01	7.38E-03	6.89E-02	7.38E-03
OTHER NUCLIDES	3.19E-01	1.30E+02	2.88E+00	1.07E-01	3.37E+00	8.71E-02	5.01E-01	8.70E-02
TOTALS	1.45E+02	2.73E+02	4.20E+02	1.43E+02	1.47E+02	1.54E+02	1.44E+02	1.73E+02

END JOB 2155 KFERAD 9/27/82 L-BRANAGAN BOX 280
END JOB 2155 KFERAD 9/27/82 L-BRANAGAN BOX 280
END JOB 2155 KFERAD 11:29:42 L-BRANAGAN BOX 280
END JOB 2155 KFERAD 11:29:42 L-BRANAGAN BOX 280

COMPUTER CENTER
NATIONAL INSTITUTE OF HEALTH
BUILDING 12, ROOM 1100, BETHESDA, MARYLAND 20205

WILIJ9
WILIJ9
14-PM1
14-PM1

BOX 280
BOX 280
BOX 280
BOX 280