

Appendix C - 2

Summary of Air Monitoring Data

Table C - 2.1**1992 Airborne Radioactive Effluent Monthly Totals (curies)
from the Main Ventilation Stack (ANSTACK)**

Month	Alpha	Beta	H-3
January	<2.78E-08	3.36±0.85E-07	3.83±0.11E-03
February	<2.81E-08	1.27±0.15E-06	4.60±0.13E-03
March	3.02±2.69E-08	6.45±1.02E-07	2.94±0.08E-03
April	2.74±2.65E-08	6.96±1.06E-07	2.58±0.07E-03
May	<3.21E-08	6.48±1.22E-07	2.89±0.09E-03
June	4.75±3.39E-08	3.45±0.18E-06	2.34±0.08E-03
July	<2.51E-08	8.10±1.10E-07	6.00±0.18E-03
August	<3.03E-08	1.26±0.14E-06	6.72±0.20E-03
September	3.55±3.12E-08	4.65±0.19E-06	6.38±0.18E-03
October	3.99±3.85E-08	1.94±0.18E-06	9.03±0.21E-03
November	<3.08E-08	1.07±0.12E-06	6.10±0.20E-03
December	3.86±3.65E-08	3.30±0.21E-06	1.89±0.06E-03
TOTALS	<3.68E-07	2.01±0.17E-05	5.53±0.16E-02

Table C - 2.2**1992 Airborne Radioactive Effluent Quarterly Totals (curies)
from the Main Ventilation Stack (ANSTACK)**

QTR	Co-60	Sr-90	I-129	Cs-134	Cs-137	Eu-154	Am-241
1st Qtr	<2.76E-08	1.90±0.36E-07	4.41±0.20E-06	<2.70E-08	1.19±0.12E-06	<8.77E-08	1.30±0.77E-08
2nd Qtr	<2.52E-08	1.66±0.12E-06	5.50±0.26E-07	<2.75E-08	5.89±0.58E-06	<6.40E-08	5.85±1.95E-08
3rd Qtr	<2.25E-08	2.48±0.21E-06	1.08±0.06E-06	<2.07E-08	7.47±0.74E-06	<5.58E-08	5.17±1.65E-08
4th Qtr	<1.39E-08	3.80±0.42E-07	5.94±0.13E-07	<1.38E-08	2.70±0.27E-06	<4.35E-08	3.10±0.99E-08
TOTALS	<8.92E-08	4.71±0.40E-06	6.64±0.30E-06	<8.89E-08	1.73±0.17E-05	<2.51E-07	1.54±0.54E-07

QTR	U-232	U-233/234	U-235	U-236	U-238	Pu-238	Pu-239/240
1st Qtr	<6.85E-09	<4.96E-09	<4.71E-09	<4.71E-09	<3.44E-09	<9.65E-09	<7.91E-09
2nd Qtr	<9.17E-09	<1.07E-08	<5.23E-09	<5.23E-09	<5.23E-09	<1.05E-08	<1.17E-08
3rd Qtr	<6.85E-09	<4.99E-09	<4.99E-09	<6.41E-09	<4.99E-09	<1.53E-08	3.93±2.48E-08
4th Qtr	<8.59E-09	<3.90E-09	<3.90E-09	<3.90E-09	<5.91E-09	<5.63E-09	1.41±0.84E-08
TOTALS	<3.14E-08	<2.46E-08	<1.88E-08	<2.02E-08	<1.96E-08	<4.11E-08	7.16±5.29E-08

Table C - 2.3

Comparison of 1992 Main Stack Exhaust Radioactivity Concentrations with Department of Energy Guidelines

Isotope	Half-life	Total Ci Released ^a	Avg Conc (μ Ci/mL)	DCG (μ Ci/mL)	% of DCG ^c
Alpha	NA	<3.68E-07 (<1.36E+04 Bq)	<4.95E-16	NA ^b	—
Beta	NA	2.01E-05 (7.44E+05 Bq)	2.70E-14	NA ^b	—
H-3	12.35 years	5.53E-02 (2.05E+09 Bq)	7.43E-11 ^d	1.00E-07	0.1
Co-60	5.27 years	<8.92E-08 (<3.30E+03 Bq)	<1.20E-16	8.00E-11	0.0
Sr-90	29.124 years	4.71E-06 (1.74E+05 Bq)	6.33E-15	9.00E-12	0.1
I-129	1.57 E+07 years	6.64E-06 (2.46E+05 Bq)	8.92E-15	7.00E-11	0.0
Cs-134	2.06 years	<8.89E-08 (<3.29E+03 Bq)	<1.20E-16	2.00E-10	0.0
Cs-137	30 years	1.73E-05 (6.38E+05 Bq)	2.31E-14	4.00E-10	0.0
Eu-154	8.8 years	<2.51E-07 (<9.29E+03 Bq)	<3.37E-16	5.00E-11	0.0
U-232 ^e	72 years	<3.14E-08 (<1.16E+03 Bq)	<4.22E-17	2.00E-14	<0.2
U-234 ^e	2.45 E+05 years	<2.46E-08 (<9.10E+02 Bq)	<3.30E-17	9.00E-14	0.0
U-235 ^e	7.1 E+08 years	<1.88E-08 (<6.96E+02 Bq)	<2.53E-17	1.00E-13	0.0
U-236 ^e	3.415 E+06 years	<2.02E-08 (<7.47E+02 Bq)	<2.72E-17	1.00E-13	0.0
U-238 ^e	4.47 E+09 years	<1.96E-08 (<7.24E+02 Bq)	<2.63E-17	1.00E-13	0.0
Pu-238	87.07 years	<4.11E-08 (<1.52E+03 Bq)	<5.53E-17	3.00E-14	<0.2
Pu-239	2.4 E+04 years	7.16E-08 (2.65E+03 Bq)	9.63E-17	2.00E-14	0.5
Am-241	432 years	1.54E-07 (5.71E+03 Bq)	2.07E-16	2.00E-14	1.0
TOTAL % of DCG					2.2

NOTES:

^a Total volume released at 50,000 cfm = 7.44E+14 mL/year; Ci values are also expressed in Bq.

^b Derived concentration guides (DCGs) are not specified for gross alpha or gross beta activity.

^c Total percent DCGs for applicable measured radionuclides.

^d Tritium reported in pCi/mL = 7.43E-5.

^e Total U (μ g) = <6.69E+04; average U (pg/mL) = <8.99E-05.

NA - Not applicable.

DCGs are listed for reference only. They are applicable to average concentrations at the site boundary but not to stack concentrations, as might be inferred from their inclusion in this table.

Table C - 2.4

**1992 Airborne Radioactive Effluent Monthly Totals (curies)
from the Cement Solidification System Ventilation Stack (ANCSSTK)**

Month	Alpha	Beta
January	<5.64E-09	1.77±1.40E-08
February	<4.45E-09	2.67±1.57E-08
March	<3.14E-09	1.58±1.18E-08
April	<4.25E-09	<1.38E-08
May	<4.49E-09	<1.60E-08
June	<4.30E-09	<1.10E-08
July	<3.69E-09	<1.16E-08
August	<6.82E-09	1.84±1.67E-08
September	<5.19E-09	1.86±1.41E-08
October	<7.15E-09	<1.79E-08
November	<5.95E-09	<1.39E-08
December	<6.33E-09	2.25±1.45E-08
TOTALS	<6.14E-08	1.94±1.71E-07

Table C - 2.5

**1992 Airborne Radioactive Effluent Quarterly Totals (curies)
from the Cement Solidification System Ventilation Stack (ANCSSTK)**

QTR	Co-60	Sr-90	I-129	Cs-134	Cs-137	Eu-154	Am-241
1st Qtr	<5.32E-09	4.89±3.87E-09	<1.41E-08	5.80±5.80E-09	<4.51E-09	2.32±1.89E-08	<1.79E-09
2nd Qtr	<8.90E-08	<8.40E-08	<4.06E-09	<7.85E-08	<8.81E-08	<2.73E-07	<2.22E-08
3rd Qtr	<3.47E-08	<1.04E-08	<6.73E-09	<2.90E-08	<3.24E-08	<1.11E-07	<4.49E-09
4th Qtr	<6.19E-09	<3.64E-09	3.46±3.07E-09	<6.19E-09	<6.19E-09	<1.87E-08	<9.41E-10
TOTALS	<1.35E-07	<2.63E-08	<2.79E-08	<1.19E-07	<1.31E-07	<4.21E-07	<2.95E-08

QTR	U-232	U-233/234	U-235	U-236	U-235/236	U-238	Pu-238	Pu-239/240
1st Qtr	<9.19E-10	<1.11E-09	<6.67E-10	<6.67E-10	<1.33E-09	<9.43E-10	<1.96E-09	<1.11E-09
2nd Qtr	<9.49E-09	<1.72E-08	*	*	<1.59E-08	5.04±2.29E-08	<8.58E-09	<5.45E-09
3rd Qtr	<3.34E-09	1.96±0.89E-08	*	*	<4.77E-09	1.89±0.94E-08	<8.54E-09	<5.08E-09
4th Qtr	<1.21E-09	<8.89E-10	<8.89E-10	<8.89E-10	<1.78E-09	<8.89E-10	<1.33E-09	<2.04E-09
TOTALS	<1.50E-08	3.61±2.81E-08	N/A	N/A	<2.38E-08	6.98±3.41E-08	<2.04E-08	<1.37E-08

* U-235 and U-236 were not measured separately.
N/A - Not available.

Table C - 2.6**1992 Airborne Radioactive Effluent Monthly Totals (curies)
from the Contact Size-Reduction Facility Ventilation Stack (ANCSRFK)**

Month	Alpha	Beta
January	<2.54E-09	9.74±7.40E-09
February	<3.57E-09	1.36±0.96E-08
March	<2.98E-09	1.68±0.87E-08
April	<2.72E-09	1.30±0.94E-08
May	<3.47E-09	1.25±1.10E-08
June	<2.54E-09	1.40±0.88E-08
July	<2.82E-09	<8.40E-09
August	<4.10E-09	1.52±1.06E-08
September	<3.47E-09	1.32±0.91E-08
October	<4.30E-09	1.54±1.18E-08
November	<3.66E-09	1.55±0.91E-08
December	<3.19E-09	2.26±0.86E-08
TOTALS	<3.47E-09	1.69±1.12E-07

Table C - 2.7**1992 Airborne Radioactive Effluent Quarterly Totals (curies)
from the Contact Size-Reduction Facility Ventilation Stack (ANCSRFK)**

QTR	Co-60	Sr-90	I-129	Cs-134	Cs-137	Eu-154	Am-241
1st Qtr	<2.77E-09	<2.38E-09	1.85±0.09E-07	<2.71E-09	3.60±2.77E-09	<1.12E-08	<4.68E-10
2nd Qtr	<4.00E-09	<2.39E-09	2.45±0.05E-07	<4.33E-09	<3.17E-09	<1.16E-08	8.30±7.30E-10
3rd Qtr	<2.26E-09	<2.31E-09	8.26±4.23E-09	<2.48E-09	<1.83E-09	<5.92E-09	<5.70E-10
4th Qtr	<4.24E-09	<2.27E-09	<1.99E-09	<3.97E-09	<3.70E-09	<1.15E-08	<1.00E-09
TOTALS	<1.33E-08	<9.35E-09	4.39±0.20E-07	<1.35E-08	<1.15E-08	<4.03E-08	<2.77E-09

QTR	U-232	U-233/234	U-235	U-236	U-238	Pu-238	Pu-239/240
1st Qtr	<1.38E-09	<6.23E-10	<4.32E-10	<6.09E-10	<6.09E-10	<9.69E-10	<1.02E-09
2nd Qtr	<1.23E-09	<7.55E-10	<5.81E-10	<5.82E-10	<1.06E-09	<4.50E-10	<4.50E-10
3rd Qtr	<9.07E-10	<1.24E-09	<6.44E-10	<5.08E-10	<9.17E-10	<4.73E-10	<6.07E-10
4th Qtr	<9.39E-10	<7.88E-10	<6.06E-10	<6.06E-10	<6.06E-10	<6.69E-10	<7.78E-10
TOTALS	<4.46E-09	<3.40E-09	<2.26E-09	<2.30E-09	<3.19E-09	<2.56E-09	<2.86E-09

Table C - 2.8

**1992 Airborne Radioactive Effluent Monthly Totals (curies)
from the Supernatant Treatment System Ventilation Stack (ANSTSTK)**

Month	H-3 *	Alpha	Beta
January		<1.83E-09	<5.81E-09
February		<2.56E-09	9.25±7.46E-09
March		<1.64E-09	1.10±0.63E-08
April		<1.54E-09	8.95±6.57E-09
May		<2.93E-09	1.01±0.88E-08
June		<1.46E-09	1.48±0.42E-08
July		<2.58E-09	<6.96E-09
August		<2.99E-09	1.12±0.86E-08
September		<2.44E-09	1.09±0.70E-08
October		<3.25E-09	1.62±0.93E-08
November		<2.22E-09	2.19±0.82E-08
December		<2.75E-09	2.19±0.78E-08
TOTALS		<2.82E-08	2.81±0.87E-08

* Tritium could not be accurately quantified in low-moisture effluent air.

Table C - 2.9

**1992 Airborne Radioactive Effluent Quarterly Totals (curies)
from the Supernatant Treatment System Ventilation Stack (ANSTSTK)**

QTR	Co-60	Sr-90	I-129	Cs-134	Cs-137	Eu-154	Am-241
1st Qtr	<2.53E-09	<1.52E-09	1.89±0.08E-07	<2.33E-09	<2.48E-09	<8.06E-09	<6.97E-10
2nd Qtr	<2.34E-09	<1.66E-09	1.12±0.04E-07	<2.22E-09	<1.73E-09	<5.71E-09	4.50±4.33E-10
3rd Qtr	<2.96E-09	<2.04E-09	3.74±0.44E-08	<3.02E-09	3.94±2.63E-09	<1.01E-08	<4.82E-10
4th Qtr	<2.78E-09	<1.50E-09	9.58±0.22E-08	<2.46E-09	3.44±2.71E-09	<7.53E-09	<6.64E-10
TOTALS	<1.06E-08	<6.72E-09	4.34±0.18E-07	<1.00E-08	<9.55E-09	<3.14E-08	<2.28E-09

QTR	U-232	U-233/234	U-235	U-236	U-238	Pu-238	Pu-239/240
1st Qtr	<4.57E-10	<7.62E-10	<4.12E-10	<3.81E-10	<7.40E-10	<6.36E-10	<3.01E-10
2nd Qtr	<4.07E-10	<5.35E-10	<3.95E-10	<3.08E-10	<4.50E-10	<3.20E-10	<5.54E-10
3rd Qtr	<7.47E-10	<5.46E-10	<4.27E-10	<4.27E-10	<4.27E-10	<7.54E-10	<9.64E-10
4th Qtr	<3.94E-10	<5.48E-10	<6.39E-10	<5.48E-10	<5.48E-10	<6.12E-10	<6.12E-10
TOTALS	<2.00E-09	<2.39E-09	<1.87E-09	<1.67E-09	<2.17E-09	<2.32E-09	<2.43E-09

Table C - 2.10

**1992 Airborne Radioactive Effluent Monthly Totals (curies)
from the Supercompactor Ventilation Stack (ANSUPCV)**

Month	Alpha	Beta
January	<3.03E-10	1.57±0.73E-09
February	<8.80E-11	<3.54E-09
March	<8.85E-11	6.65±3.25E-10
April	<1.11E-10	4.47±3.09E-10
May	<3.84E-10	1.62±1.29E-09
June	<4.38E-10	4.28±1.49E-09
July	<4.69E-10	1.77±1.31E-09
August	<5.76E-10	2.61±1.64E-09
September	<3.60E-10	1.92±1.28E-09
October	<5.96E-10	2.62±1.66E-09
November	<4.38E-10	2.00±1.31E-09
December	<4.45E-10	1.95±1.21E-09
TOTALS	<4.30E-09	2.20±1.61E-08

Table C - 2.11

**1992 Airborne Radioactive Effluent Quarterly Totals (curies)
from the Supercompactor Ventilation Stack (ANSUPCV)**

QTR	Co-60	Sr-90	Cs-134	Cs-137	Eu-154	Pu-238	Pu-239/240
1st Qtr	<6.32E-10	<5.59E-10	<5.59E-10	9.84±5.39E-10	<1.82E-09	<2.26E-10	<2.06E-10
2nd Qtr	<5.29E-09	<6.11E-10	<4.40E-09	<5.32E-09	<1.55E-08	<2.23E-09	1.93±1.62E-09
3rd Qtr	<2.18E-09	<9.46E-10	<1.71E-09	<1.80E-09	<6.40E-09	<2.63E-10	<2.28E-10
4th Qtr	<5.95E-10	<8.00E-10	<6.26E-10	<6.22E-10	<2.00E-09	<1.33E-10	<1.33E-10
TOTALS	<8.69E-09	<2.92E-09	<7.29E-09	<8.27E-09	<2.57E-08	<2.85E-09	2.24±2.19E-09

QTR	U-232	U-233/234	U-235	U-236	U-235/236	U-238	Am-241
1st Qtr	<4.32E-10	<1.18E-10	<1.18E-10	<1.18E-10	<2.37E-10	<1.18E-10	<2.13E-10
2nd Qtr	<1.46E-09	<2.11E-09	*	*	<1.60E-09	2.98±1.94E-09	<2.00E-07
3rd Qtr	<1.15E-09	<9.86E-10	*	*	<1.29E-09	<1.13E-09	<3.69E-10
4th Qtr	<1.07E-10	<1.11E-10	<8.66E-11	<8.66E-11	<1.73E-10	<1.11E-10	1.73±1.38E-10
TOTALS	<3.15E-09	<3.32E-09	N/A	N/A	<3.30E-09	4.01±3.30E-09	<2.00E-07

* U-235 and U-236 were not measured separately.
N/A - Not available.

Table C - 2.12**1992 Radioactivity Concentrations in Airborne Particulates ($\mu\text{Ci}/\text{mL}$)
at the Fox Valley Air Sampler (AFFXVRD)**

Month	Alpha	Beta	Sr-90	Cs-137
January	1.07±0.96E-15	1.35±0.30E-14		
February	9.07±8.96E-16	1.82±0.30E-14		
March	1.79±1.04E-15	1.93±0.30E-14		
1st Qtr			<4.77E-17	<1.91E-16
April	1.25±0.93E-15	1.28±0.27E-14		
May	<8.32E-16	1.37±0.27E-14		
June	9.60±8.89E-16	1.67±0.29E-14		
2nd Qtr			<2.99E-16	<4.20E-15
July	1.16±1.00E-15	1.44±0.28E-14		
August	<9.54E-16	1.69±0.30E-14		
September	1.19±0.94E-15	1.68±0.29E-14		
3rd Qtr			<4.49E-16	<6.16E-16
October	<8.50E-16	1.63±0.28E-14		
November	<6.17E-16	1.55±0.25E-14		
December	1.25±1.03E-15	2.46±0.32E-14		
4th Qtr			<8.26E-17	<2.08E-16

Table C - 2.13**1992 Radioactivity Concentrations in Airborne Particulates ($\mu\text{Ci}/\text{mL}$)
at the Rock Springs Road Air Sampler (AFRSPRD)**

Month	Alpha	Beta	Sr-90	Cs-137	I-129
January	1.21±0.98E-15	2.10±0.32E-14			
February	<9.44E-16	1.93±0.32E-14			
March	1.00±0.81E-15	1.88±0.30E-14			
1st Qtr			<4.44E-17	<2.42E-16	<3.52E-16
April	8.76±8.39E-16	1.49±0.28E-14			
May	1.23±1.01E-15	1.46±0.30E-14			
June	8.69±8.48E-16	1.51±0.28E-14			
2nd Qtr			<5.14E-16	<2.55E-15	3.61±2.11E-16
July	<9.12E-16	1.36±0.27E-14			
August	1.06±1.00E-15	1.68±0.29E-14			
September	1.21±0.93E-15	1.91±0.30E-14			
3rd Qtr			<4.42E-16	<2.76E-15	3.73±3.60E-16
October	<8.33E-16	2.00±0.31E-14			
November	<8.05E-16	1.50±0.27E-14			
December	<9.22E-16	2.40±0.32E-14			
4th Qtr			<1.26E-16	<2.09E-16	2.22±1.11E-16

Table C - 2.14**1992 Radioactivity Concentrations in Airborne Particulates ($\mu\text{Ci}/\text{mL}$)
at the Route 240 Air Sampler (AFRT240)**

Month	Alpha	Beta	Sr-90	Cs-137
January	<1.53E-15	2.07±0.47E-14		
February	8.61±8.61E-16	1.87±0.29E-14		
March	1.38±0.93E-15	1.77±0.29E-14		
1st Qtr			<4.93E-17	<2.00E-16
April	<7.25E-16	1.25±0.26E-14		
May	9.73±8.97E-16	1.31±0.27E-14		
June	1.41±1.01E-15	1.45±0.27E-14		
2nd Qtr			<2.86E-16	<2.59E-15
July	<8.86E-16	1.20±0.26E-14		
August	<8.46E-16	1.84±0.30E-14		
September	1.00±0.93E-15	1.79±0.30E-14		
3rd Qtr			7.74±2.56E-16	<6.08E-16
October	1.32±1.05E-15	1.72±0.30E-14		
November	<7.05E-16	1.42±0.24E-14		
December	<9.83E-16	2.55±0.33E-14		
4th Qtr			<6.57E-17	<2.20E-16

Table C - 2.15**1992 Radioactivity Concentrations in Airborne Particulates ($\mu\text{Ci}/\text{mL}$)
at the Springville Air Sampler (AFSPRVL)**

Month	Alpha	Beta	Sr-90	Cs-137
January	8.50±7.51E-16	1.84±0.26E-14		
February	<6.80E-16	1.66±0.25E-14		
March	9.38±6.94E-16	1.66±0.25E-14		
1st Qtr			<5.29E-17	<2.18E-16
April	<7.86E-16	1.22±0.27E-14		
May	8.14±7.93E-16	1.35±0.25E-14		
June	8.67±8.26E-16	1.33±0.27E-14		
2nd Qtr			<3.74E-16	<3.46E-15
July	<8.94E-16	1.19±0.26E-14		
August	<8.00E-16	1.63±0.29E-14		
September	<7.61E-16	1.80±0.30E-14		
3rd Qtr			5.44±2.44E-16	<1.18E-15
October	1.14±0.98E-15	1.62±0.28E-14		
November	<6.50E-16	1.33±0.23E-14		
December	<9.58E-16	2.38±0.33E-14		
4th Qtr			<8.72E-17	<2.44E-16

Table C -2.16**1992 Radioactivity Concentrations in Airborne Particulates ($\mu\text{Ci}/\text{mL}$)
at the Thomas Corners Road Air Sampler (AFTCORD)**

Month	Alpha	Beta	Sr-90	Cs-137
January	<6.40E-16	1.68±0.27E-14		
February	<1.41E-15	2.86±0.49E-14		
March	1.56±0.97E-15	1.72±0.29E-14		
1st Qtr			<5.08E-17	<1.67E-16
April	1.06±0.87E-15	1.28±0.26E-14		
May	<8.12E-16	1.43±0.28E-14		
June	9.21±8.57E-16	1.42±0.27E-14		
2nd Qtr			<7.78E-16	<2.38E-15
July	<7.64E-16	1.24±0.25E-14		
August	<8.08E-16	2.12±0.31E-14		
September	9.15±8.77E-16	1.78±0.30E-14		
3rd Qtr			<2.31E-16	<8.66E-16
October	<8.81E-16	1.87±0.30E-14		
November	<6.92E-16	1.57±0.25E-14		
December	1.14±1.06E-15	2.80±0.36E-14		
4th Qtr			<1.00E-16	<2.16E-16

Table C - 2.17**1992 Radioactivity Concentrations in Airborne Particulates ($\mu\text{Ci}/\text{mL}$)
at the West Valley Air Sampler (AFWEVAL)**

Month	Alpha	Beta	Sr-90	Cs-137
January	<2.48E-15	2.33±0.74E-14		
February	9.04±8.30E-16	1.54±0.27E-14		
March	1.11±0.82E-15	1.57±0.28E-14		
1st Qtr			8.44±6.05E-17	<2.11E-16
April	1.03±0.86E-15	1.33±0.27E-14		
May	8.88±8.75E-16	1.37±0.27E-14		
June	8.29±8.25E-16	1.51±0.28E-14		
2nd Qtr			<3.09E-16	<4.16E-15
July	<8.43E-16	1.32±0.27E-14		
August	<7.55E-16	1.55±0.26E-14		
September	<1.03E-15	1.43±0.31E-14		
3rd Qtr			3.87±2.21E-16	<1.27E-15
October	1.00±0.86E-15	1.61±0.26E-14		
November	<6.80E-16	1.35±0.23E-14		
December	8.62±8.41E-16	2.23±0.29E-14		
4th Qtr			<8.09E-17	<2.33E-16

Table C - 2.18**1992 Radioactivity Concentrations in Airborne Particulates ($\mu\text{Ci}/\text{mL}$)
at the Great Valley Air Sampler (AFGRVAL)**

Month	Alpha	Beta	Sr-90	Cs-137	I-129
January	8.52±7.41E-16	1.38±0.24E-14			
February	<6.11E-16	1.44±0.24E-14			
March	1.14±0.81E-15	1.47±0.26E-14			
1st Qtr			<5.95E-17	<1.83E-16	<3.13E-16
April	7.57±6.77E-16	1.04±0.22E-14			
May	9.59±8.61E-16	1.28±0.26E-14			
June	1.19±0.95E-15	1.64±0.29E-14			
2nd Qtr			<4.56E-16	<3.25E-15	<2.04E-16
July	<8.60E-16	1.55±0.29E-14			
August	<9.49E-16	1.70±0.29E-14			
September	1.27±0.98E-15	1.88±0.30E-14			
3rd Qtr			<9.77E-16	<1.31E-15	<3.49E-16
October	<8.74E-16	1.92±0.31E-14			
November	<1.02E-15	1.55±0.32E-14			
December	1.12±1.01E-15	2.05±0.31E-14			
4th Qtr			<1.93E-16	<2.23E-16	<1.27E-16

Table C - 2.19**1992 Radioactivity Concentrations in Airborne Particulates ($\mu\text{Ci}/\text{mL}$)
at the Dunkirk Air Sampler (AFDNKRK)**

Month	Alpha	Beta	Sr-90	Cs-137
January	1.49±1.05E-15	2.24±0.33E-14		
February	9.79±8.91E-16	2.23±0.33E-14		
March	2.09±1.78E-15	2.18±0.51E-14		
1st Qtr			<9.42E-17	<3.85E-16
April	1.26±0.96E-15	1.49±0.29E-14		
May	8.62±8.31E-16	1.36±0.26E-14		
June	1.26±0.96E-15	1.66±0.29E-14		
2nd Qtr			6.79±3.05E-16	<4.19E-15
July	<8.98E-16	1.49±0.28E-14		
August	<8.26E-16	1.91±0.30E-14		
September	<8.41E-16	2.02±0.31E-14		
3rd Qtr			1.15±0.85E-15	<5.68E-16
October	1.41±1.06E-15	2.06±0.32E-14		
November	<8.31E-16	1.81±0.30E-14		
December	<9.16E-16	2.29±0.32E-14		
4th Qtr			<1.73E-16	<2.31E-16

Table C - 2.20

**1992 Radioactivity Concentrations in Airborne Particulates ($\mu\text{Ci}/\text{mL}$)
at the Dutch Hill Air Sampler (AFBOEHN)**

Month	Alpha	Beta	Sr-90	Cs-137
<i>January</i>	<7.86E-16	1.85±0.31E-14		
<i>February</i>	<7.65E-16	1.71±0.30E-14		
<i>March</i>	1.34±0.93E-15	1.67±0.29E-14		
1st Qtr			<5.40E-17	<2.20E-16
<i>April</i>	<7.79E-16	1.32±0.27E-14		
<i>May</i>	1.28±0.95E-15	1.22±0.25E-14		
<i>June</i>	1.03±0.88E-15	1.58±0.29E-14		
2nd Qtr			<4.27E-16	<3.63E-15
<i>July</i>	1.14±1.00E-15	1.26±0.27E-14		
<i>August</i>	<8.74E-16	1.90±0.31E-14		
<i>September</i>	1.03±0.97E-15	1.92±0.31E-14		
3rd Qtr			<2.33E-16	<8.29E-16
<i>October</i>	1.01±0.98E-15	1.72±0.30E-14		
<i>November</i>	<7.36E-16	1.68±0.29E-14		
<i>December</i>	<9.47E-16	2.15±0.31E-14		
4th Qtr			<1.02E-16	<2.21E-16

Table C - 2.21

Radioactivity in Fallout in 1992 (nCi/m²/month)

Dutch Hill (AFDHFOP)				Fox Valley Road (AFFXFOP)			
Month	Gross Alpha	Gross Beta	H-3 (μCi/mL)	Month	Gross Alpha	Gross Beta	H-3 (μCi/mL)
January	2.89E-02	2.44E-01	2.00±1.4E-07	January	2.20E-02	2.63E-01	<1.00E-07
February	<3.49E-03	1.13E-01	<1.00E-07	February	8.36E-03	1.44E-01	<1.00E-07
March	5.00E-03	1.25E-01	<1.00E-07	March	1.74E-02	1.00E-01	<1.00E-07
April	<3.09E-02	3.34E-01	<1.00E-07	April	<3.19E-02	3.66E-01	<1.00E-07
May	<8.30E-03	1.45E-01	<1.44E-07	May	1.29E-02	1.34E-01	2.79±1.6E-07
June	4.08E-02	6.36E-01	<1.00E-07	June	1.27E-02	1.50E-01	<1.00E-07
July	1.02E-01	9.14E-01	<1.00E-07	July	1.63E-01	5.78E-01	<8.10E-08
August	<3.27E-02	4.80E-01	<1.00E-07	August	<3.24E-02	4.11E-01	<1.00E-07
September	<2.67E-02	2.56E-01	<1.00E-07	September	<3.85E-02	3.94E-01	<1.00E-07
October	5.61E-02	5.73E-01	<1.00E-07	October	5.34E-02	5.57E-01	<1.00E-07
November	<4.46E-02	5.71E-01	<1.00E-07	November	<5.18E-02	7.55E-01	<1.00E-07
December	<1.89E-02	4.86E-01	<1.00E-07	December	5.36E-02	7.07E-01	<1.00E-07
Route 240 (AF24FOP)				Thomas Corners Road (AFTCFOP)			
Month	Gross Alpha	Gross Beta	H-3 (μCi/mL)	Month	Gross Alpha	Gross Beta	H-3 (μCi/mL)
January	<1.38E-02	2.18E-01	4.34±1.5E-07	January		NO SAMPLE	
February	1.92E-02	2.11E-01	<1.00E-07	February	1.94E-02	2.65E-01	<1.00E-07
March	<6.70E-03	1.38E-01	<1.00E-07	March	<6.39E-03	8.10E-02	<1.00E-07
April	<2.31E-02	3.50E-01	<1.00E-07	April	<3.45E-02	2.29E-01	<1.00E-07
May	<8.48E-03	2.24E-01	<1.00E-07	May	<8.70E-03	1.00E-01	<1.00E-07
June	<7.20E-03	3.05E-01	<1.00E-07	June	1.70E-02	1.71E-01	<1.00E-07
July	<5.47E-02	4.28E-01	<1.00E-07	July	<6.74E-02	3.04E-01	<7.24E-08
August	<4.05E-02	8.74E-01	<1.00E-07	August	<3.58E-02	3.58E-01	<1.00E-07
September	<2.87E-02	5.16E-01	<1.00E-07	September	<2.50E-02	3.99E-01	<1.00E-07
October	3.02E-02	8.01E-01	<1.00E-07	October	<1.77E-02	7.20E-01	<1.00E-07
November	5.53E-02	6.82E-01	<1.00E-07	November	7.12E-02	7.78E-01	<1.00E-07
December	<2.29E-02	5.72E-01	<1.00E-07	December	<3.38E-02	8.42E-01	<1.00E-07
Rain Gage (ANRGFOP)							
Month	Gross Alpha	Gross Beta	H-3 (μCi/mL)				
January	2.42E-02	2.05E-01	<1.00E-07				
February	8.17E-03	1.17E-01	<1.00E-07				
March	1.42E-02	1.05E-01	<1.00E-07				
April	<3.95E-02	1.85E-01	<1.00E-07				
May	<2.36E-02	1.58E-01	<1.00E-07				
June	2.73E-02	3.51E-01	<1.00E-07				
July	<4.80E-02	2.88E-01	<7.45E-08				
August	<3.57E-02	6.95E-01	<7.09E-08				
September	<3.07E-02	4.69E-01	<1.00E-07				
October	2.59E-02	7.16E-01	<1.00E-07				
November	<5.42E-02	7.86E-01	<1.00E-07				
December	<3.35E-02	7.76E-01	<1.00E-07				

Table C - 2.22

pH of Precipitation Collected in Fallout Pots in 1992

Month	Dutch Hill (AFDHFOP)	Fox Valley Road (AFEXFOP)	Route 240 (AF24FOP)	Thomas Corners Road (AFTCFOP)	Rain Gage (ANRGFOP)
<i>January</i>	3.81	4.01	3.72	4.74	3.94
<i>February</i>	3.69	3.86	3.52	3.84	3.64
<i>March</i>	4.66	3.61	5.36	4.50	4.32
<i>April</i>	3.72	4.05	3.66	3.91	4.08
<i>May</i>	5.24	4.39	4.71	3.96	9.67
<i>June</i>	7.44	3.94	6.08	3.74	6.73
<i>July</i>	4.41	3.99	3.93	3.80	4.79
<i>August</i>	3.85	4.42	6.02	4.00	3.86
<i>September</i>	3.97	3.82	3.80	3.75	3.76
<i>October</i>	5.43	4.49	3.77	4.05	3.92
<i>November</i>	3.89	4.16	3.96	4.01	3.88
<i>December</i>	3.68	4.06	3.71	3.93	3.97