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U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555-0001

Dresden Nuclear Power Station Units 1, 2, and 3
Facility Operating Licenses DPR-2, DPR-19, and DPR-25
Docket Numbers 50-010, 50-237, and 50-249

Subject: Dresden Nuclear Power Station Annual Radiological Environmental Operating Report for 2000

The purpose of this letter is to submit the Exelon Generation Company, LLC, Dresden Nuclear Power Station (DNPS) Annual Radiological Environmental Operating Report. This report provides the results of the radiological environmental and meteorological monitoring programs for the 2000 calendar year, and is submitted in accordance with Section 6.9.A.3 for Unit 1 of the DNPS Technical Specifications and Section 5.6.2 of Improved Technical Specifications for Units 2 and 3, "Annual Radiological Environmental Operating Report".

If you have any questions concerning this report, please refer them to Mr. D. F. Ambler, Dresden Station Regulatory Assurance Manager, at (815) 942-2920, extension 3800.

Respectfully,

Preston Swafford
Site Vice President
Dresden Nuclear Power Station

Enclosure

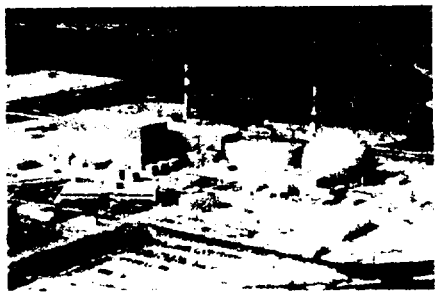
C001

cc: Regional Administrator - NRC Region III
NRC Senior Resident - Dresden Nuclear Power Station

DRESDEN STATION

ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT

2000



APRIL 2001

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INTRODUCTION

The Dresden Station is located approximately twelve miles southwest of Joliet, Illinois at the confluence of the Des Plaines and Kankakee Rivers where they form the Illinois River. This station uses two boiling water reactors (G.E. design) to generate electricity. Unit 1, which began operating in 1960 and had a rated power output of 200 megawatts electrical (MWe), was shut down on August 31, 1984 and is currently being decommissioned. Units 2 and 3 began operating in 1970 and 1971, respectively, each with a net rated power output of 809 MWe. Liquid radwaste from Unit 1 is transferred to Units 2 and 3 for collective processing and discharge.

Liquid effluents from Dresden are released to the Illinois River in controlled batches after radioassay of each batch. Gaseous effluents are released to the atmosphere after delay to permit decay of short-lived (noble) gases. Releases to the atmosphere are calculated on the basis of analyses of weekly grab samples of noble gases as well as continuously collected composite samples of iodine and particulate activity sampled during the course of the year. The results of effluent analyses are summarized on a monthly basis and reported to the Nuclear Regulatory Commission as required per Technical Specifications. Airborne concentrations of noble gases, I-131, and particulate radioactivity in offsite areas are calculated using isotopic composition of control effluent and meteorological data.

Environmental monitoring is conducted by sampling at indicator and control (background) locations in the vicinity of the Dresden Station to measure changes in radiation or radioactivity levels that may be attributable to station operation. If significant changes attributable to Dresden are measured, these changes are correlated with effluent releases. External gamma radiation exposure from turbine shine and released noble gases, and internal dose from I-131 in milk are the critical pathways at this site; however, a comprehensive environmental monitoring program is conducted which includes many other pathways which are less significant in terms of radiation protection.

SUMMARY

Calculations based on gaseous and liquid effluents, Illinois River flow, meteorological data and hydrogen addition activities indicate that public dose due to radioactive material attributable to Dresden Station during the period does not exceed regulatory or Offsite Dose Calculation Manual (ODCM) limits.

The Total Effective Dose Equivalent (TEDE) for the period due to licensed activities at Dresden Station calculated for the maximally-exposed individual is 7.93 mrem. The annual limit on TEDE is 100 mrem. This value is largely dominated by the direct radiation constituent from the Unit 2 and Unit 3 turbines (7.84 mrem). The balance of the calculated maximum dose (0.09 mrem) is due to exposure from radionuclides released from the Station in liquid and gaseous effluents.

The assessment of radiation doses to the public is performed in accordance with the ODCM. The results of these analyses confirm that the Station is operating in compliance with 10CFR50 Appendix I, 10CFR20 and 40CFR190.

1.0 EFFLUENTS

1.1 Gaseous Effluents to the Atmosphere

Measured concentrations and isotopic composition of noble gases, radioiodine, and particulate radioactivity released in gaseous effluents to the atmosphere during the year are listed in Table 1.1-1. A total of 6.32E+02 curies of noble gases with a maximum quarterly average release rate of 4.31E+01 μCi/sec was released from Dresden Units 1, 2 and 3.

A total of 4.52E-03 curies of I-131 was released during the year with a maximum quarterly average release rate of 1.79E-04 μCi/sec.

A total of 1.67E-02 curies of beta-gamma emitters was released as airborne particulate matter with a maximum quarterly average release rate of 6.74E-04 μCi/sec. Alpha emitting radionuclides totaled 2.23E-05 curies. Also, 3.44E+01 curies of tritium were released with a maximum quarterly average release rate of 2.05E+00 μCi/sec.

1.2 Liquids Released to Illinois River

Measured concentrations and isotopic composition of radioactivity released in liquid effluents during the year are listed in Table 1.2-1.

A total of 2.69E+07 liters of radioactive liquid wastes containing 5.46E+00 curies of fission and activation products (excluding tritium, noble gases and gross alpha) was discharged from the station. These wastes were released at a maximum quarterly average diluted concentration of 3.96E-06 μCi/ml from all units. During the same period, 1.66E+02 curies of tritium were released with a maximum quarterly average diluted concentration of 4.92E-05 μCi/ml. Also, 1.85E-01 mCi/ml of alpha emitting radionuclides were released in the 1st quarter only.

2.0 SOLID RADIOACTIVE WASTE

Solid radioactive wastes were shipped to CNS, Barnwell, South Carolina; AERC, ATG and GTS Duratek, Oak Ridge, Tennessee; GTS Duratek, Kingston, Tennessee; Studsvik, Erwin, Tennessee and ATG, Richland, Washington. For more detail, refer to the Dresden Station 2000 Effluent Report.

3.0 DOSE TO MAN

3.1 Gaseous Effluent Pathways

3.1.1 Noble Gases

To demonstrate compliance with the applicable regulations regarding public radiation dose due to gaseous effluents from Dresden Station, two methods are reported in the following sections. Both methods employ measured isotopic composition and release rates from the station.

Assumed "average meteorological data" are used in ODCM-required calculations. These data use a ten-year average (1/1/1978-12/31/1987) for Dresden Station. Actual "concurrent meteorological data" correlate quarterly release information with actual meteorological data for the period.

3.1.1.1 Gamma Air Dose Rates

Offsite gamma air and total body doses are shown in Table 3.1-1 and were calculated based on measured release rates, isotopic composition of the noble gases, and average meteorological data for the period. Doses based on concurrent meteorological data are shown in Table 3.4-1. Isodose contours based on concurrent meteorological data for gamma air dose are shown in Figure 3.1-1.

Based on measured effluents and average meteorological data, the maximum total body dose to an individual is calculated to be 2.12E-03 mrem (Table 3.1-1) for the year, with an occupancy or shielding factor of 0.7 included. The maximum total body dose based on measured effluents and concurrent meteorological data would be 4.16E-03 mrem (Table 3.4-1). The maximum gamma air dose based on measured effluents and average meteorological data was 2.78E-03 mrad (Table 3.1-1) and 5.52E-03 mrad based on concurrent meteorological data (Table 3.4-1).

3.1.1.2 Beta Air and Skin Dose Rates

The range of beta particles in air is relatively small (on the order of a few meters or less); consequently, plumes of gaseous effluents may be considered "infinite" for the purpose of calculating the dose from beta radiation incident on the skin. However, the actual dose to sensitive skin tissues is difficult to calculate due to the effect of the beta particle energies, thickness of inert skin, and clothing covering sensitive tissues. For purposes of this report the skin is assumed to have a thickness of 0.07 mm and an occupancy factor of 1.0 is used. The skin dose from beta and gamma radiation based on measured effluents and average meteorological data for the year was 2.67E-03 mrem (Table 3.1-1) and 6.04E-03 mrem based on concurrent meteorological data (Table 3.4-1).

The air concentrations of radioactive noble gases at the offsite receptor locations are given in Figure 3.1-2. The maximum offsite beta air dose based on measured effluents and average meteorological data for the year was 8.20E-04 mrad (Table 3.1-1) and 2.47E-03 mrad based on concurrent meteorological data (Table 3.4-1).

3.1.2 Radioactive Iodine

The human thyroid exhibits a significant capacity to concentrate ingested or inhaled iodine. The radioiodine, I-131, released during routine operation of the station, may be made available to man resulting in a dose to the thyroid. The principal pathway of interest for this radionuclide is ingestion of radioiodine in

milk. Calculations made in previous years indicate that contributions to doses from inhalation of I-131 and I-133 and from ingestion of I-133 in milk are negligible.

3.1.2.1 Iodine Concentrations in Air

The calculated concentration contours for iodine in air are shown in Figure 3.1-3. These calculations include an iodine cloud depletion factor which accounts for the phenomenon of elemental iodine deposition on the ground. The maximum iodine offsite average concentration is estimated to be 9.10E-04 pCi/m^3 for the year (Table 3.4-1).

3.1.2.2 Dose to Thyroid

The hypothetical thyroid dose to a maximum exposed individual living near the station via ingestion of milk was calculated. The radionuclide considered was I-131 and the source of milk was taken to be the nearest dairy farm with the cows pastured from May through October. The maximum thyroid dose is calculated to be 2.51E-02 mrem during the year (Table 3.1-1 [child]).

3.1.3 Concentrations of Particulates in Air

Concentration contours of radioactive airborne particulates are shown in Figure 3.1-4. The maximum offsite average concentration is estimated to be 2.98E-04 pCi/m^3 (Table 3.4-1).

3.2 Liquid Effluent Pathways

The three principal pathways for potential dose to man from liquid waste effluents are ingestion of potable water, ingesting aquatic foods, and exposure while on the shoreline. Not all of these pathways are applicable at a given time or station, but a reasonable approximation of the dose can be made by adjusting the dose formula for season of the year or type and degree of use of the aquatic environment. NRC-developed equations* were used to calculate the doses to the whole body, lower GI tract, thyroid, bone and skin; specific parameters for use in the equations are given in the Dresden Station Offsite Dose Calculation Manual. The maximum total body dose and organ dose for the year was 2.29E-03 mrem (child) and 7.32E-03 mrem (child), respectively (Table 3.2-1).

3.3 Assessment of Dose to Member of Public

During the period January to December, 2000, Dresden Station did not exceed the following limits as shown in Table 3.1-1 and Table 3.2-1 (based on average

* Nuclear Regulatory Commission, Regulatory Guide 1.109 (Rev. 1).

meteorological data) and as shown in Figure 3.1-1 (based on concurrent meteorological data):

- The RETS limits on dose or dose commitment to a member of the public due to radioactive materials in liquid effluents from each reactor unit (1.5 mrem to the total body or 5 mrem to any organ during any calendar quarter; 3 mrem to the total body or 10 mrem to any organ during any calendar year).

- The RETS limits on air dose in noble gases released in gaseous effluents to a member of the public from each reactor unit (5 mrad for gamma radiation or 10 mrad for beta radiation during any calendar quarter; 10 mrad for gamma radiation or 20 mrad for beta radiation during any calendar year).

- The RETS limits on dose to a member of the public due to Iodine-131, Iodine-133, tritium, and radionuclides in particulate form with half-lives greater than 8 days in gaseous effluents released from each reactor unit (7.5 mrem to any organ during any calendar quarter; 15 mrem to any organ during any calendar year).

- The 10CFR20 limit on Total Effective Dose Equivalent to individual members of the public (100 mrem) from the site.

4.0 SITE METEOROLOGY

A summary of the site meteorological measurements taken during each calendar quarter of the year is given in Appendix II. The data are presented as cumulative joint frequency distributions of the wind direction for the 300' level and wind speed class by atmospheric stability class determined from the temperature difference between the 300' and 35' levels. Data recovery for all measurements on the tower was 99.6% during 2000 (Table 3.4-1)

5.0 ENVIRONMENTAL MONITORING

Table 5.0-1 and Table 5.0-2 provide an outline of the Radiological Environmental Monitoring Program (REMP) as required in the ODCM. Tables 5.0-3 to 5.0-6 summarize data for the year by quarter. A detailed listing of all data is given in Appendix III.

Specific findings for various environmental media are discussed below.

5.1 Gamma Radiation

External radiation dose from onsite sources and noble gases released to the atmosphere was measured using $CaSO_4$:Dy thermoluminescent dosimeters (TLDs). Each location consists of 2 TLD sets. Quarterly average external radiation dose for the year was 17.0 +/- 2.1 mR at indicator locations and 14.4 +/- 0.7 mR at control locations. TLD results are listed in Table 4.0 in Appendix III and locations are shown in Figures 5.0-1 and 5.0-2.

Quarterly external radiation dose at indicator air sampling locations averaged 16.4 +/- 1.6 mR and was similar to that measured in 1985 (13.5 mR), 1986 (14.4 mR), 1987 (15.8 mR), 1988 (14.9 mR), 1989 (15.7 mR), 1990 (14.9 mR), 1991 (14.0 mR), 1992 (15.6 mR), 1993 (15.5 mR), 1994 (14.7 mR), 1995 (14.1 mR), 1996 (13.0 mR) and 1997 (15.7 mR), 1998 (17.2 mR) and 1999 (16.3 mR).

5.2 Airborne I-131 and Particulate Radioactivity

Locations of the samplers are shown in Figure 5.0-1. Airborne I-131 remained below the LLD of 0.07 pCi/m^3 throughout the year in all analyzed samples.

Gross beta concentrations ranged from 1.1E-02 to 6.2E-02 pCi/m^3 and averaged 2.6E-02 pCi/m^3, and were similar to those in 1983 (2.0E-02 pCi/m^3), 1984 (2.0E-02 pCi/m^3), 1985 (2.0E-02 pCi/m^3), 1986 (2.5E-02 pCi/m^3), (except for the period from May 17 through June 7 when it was influenced by the nuclear reactor accident at Chernobyl), 1987 (2.4E-02 pCi/m^3), 1988 (2.7E-02 pCi/m^3), 1989 (2.4E-02 pCi/m^3), 1990 (2.0E-02 pCi/m^3) , 1991 (2.0E-02 pCi/m^3), 1992 (2.2E-02 pCi/m^3), 1993 (2.1E-02 pCi/m^3), 1994 (2.0E-02 pCi/m^3), 1995 (2.2E-02 pCi/m^3), 1996 (2.2E-02 pCi/m^3) and 1997 (2.3E-02 pCi/m^3), 1998 (2.4E-02 pCi/m^3) and 1999 (2.5E-02 pCi/m^3). Quarterly gamma isotopic results were below the LLD level of 0.01 pCi/m^3.

No radioactivity attributable to station operation was detected in any sample.

5.3 Terrestrial Activity

Vegetables were collected in September and analyzed for gamma-emitting nuclides. In addition, broad leaf vegetables were analyzed for I-131. All nuclides were below the limits of detection, indicating that there was no measurable amount of radioactivity attributable to the station releases.

5.4 Aquatic Radioactivity

Surface water samples were collected weekly from two locations, shown in Figure 5.0-2, and composited monthly for gross beta and gamma-emmiters. Quarterly composites were analyzed for tritium. Cs-134 and Cs-137 levels were below the detection limit of 15 and 18 pCi/L, respectively. All other gamma emitters were below their respective LLDs in all samples collected during the year.

Gross beta at D-51 (Dresden Lock & Dam) averaged 5.8 pCi/L with a range of 4.4 to 7.1 pCi/L; D-52 (DesPlaines River) gross beta averaged 6.9 pCi/L with a range of 4.5 to 9.6 pCi/L.

Tritium concentration was below the LLD of 200 pCi/L in all samples collected from D-52 (DesPlaines River); D-51 (Dresden Lock & Dam) averaged 594 pCi/L with a range of 434 to 933 pCi/L.

Well water samples were collected quarterly and analyzed for tritium and gamma-emitting nuclides. Gamma-emmiters were below LLD for all samples during the year; tritium activity at D-35 (Dresden Lock & Dam) was also below LLD. Tritium activity at D-23 (Thorsen Well) averaged 452 pCi/L with a third quarter high of 587 pCi/L.

Levels of gamma radioactivity in fish samples were measured and found in all cases to be below the lower limits of detection for the program. The results were similar to those obtained in 1983 through 1999.

Sediment samples were collected twice and analyzed by gamma spectroscopy. The levels of Cs-134 and Cs-137 were below the LLD levels of 0.15 and 0.18 pCi/g dry weight, respectively. Other gamma emitters were below their respective LLDs for the program.

Fish, sediment and water locations are shown in Figure 5.0-2.

5.5 Milk

Milk sample locations are shown in Figure 5.0-1. Milk samples were collected biweekly during the grazing season (May through October) and monthly during the balance of the year from the Vince Biros Farm (D-25). I-131 was determined for each sample by chemical separation of I-131 and beta counting.

I-131 remained below the ODCM-required detection limits of 5.0 pCi/L during the non-grazing period (November through April) and 0.5 pCi/L during the grazing period (May through October). The results were similar to those obtained during the 1983 - 1999 period except for samples collected during the second and third quarters of 1986. I-131 detected in milk samples during this period is attributable to the nuclear accident at Chernobyl.

5.6 Special Collections

In June, 1994, elevated tritium levels were discovered in the onsite storm sewers. A special program was initiated to identify, locate, and correct the source or sources of radioactivity. Numerous wells have been drilled, and sampling and analysis from those wells and the storm sewers continues. Results of the 2000 sampling program are available for inspection at the Station.

5.7 Listing of Missed Samples

All samples were collected as scheduled except for those listed in Listing of Missed Samples, Appendix III.

5.8 Program Modifications

There were no modifications to the program in 2000.

6.0 ANALYTICAL PROCEDURES

Procedures used during the period covered in this report remained essentially unchanged. A summary of the procedures used for analyzing radioactivity in environmental samples is given in Appendix VI of the report for the period January - December 1993.

7.0 MILCH ANIMALS AND NEAREST CATTLE CENSUS

Census of milch animals and nearest cattle were conducted within a 6.2-mile radius of the station. The survey was conducted by "door-to-door" canvas by A. Lewis on August 21, 2000. Results of the milch animal and nearest cattle census are presented on pages 36 and 37 of Appendix III.

There are no dairy farms within a 6.2-mile radius of the Dresden Nuclear Power Station.

8.0 NEAREST RESIDENCES CENSUS

The nearest resident census was conducted by A. Lewis on August 21, 2000. Results of the nearest resident census are presented page 38 of Appendix III.

9.0 DREDGE SPOILS CENSUS

According to the Army Corp. of Engineers in August 2000, there was dredging done in the past year within 1 mile of the station. However, the dredging was not closer to the station than the previous samples taken in 1998. The nearest location to the station for dredge spoils can be found on page 51 of Appendix III.

10.0 INTERLABORATORY COMPARISON PROGRAM RESULTS

Environmental Incorporated's Interlaboratory Comparison Program Results are presented in Appendix IV.

11.0 ERRATA DATA

There is no errata data for 2000.

APPENDIX I

DATA TABLES AND FIGURES

Table 1.1-1

DRESDEN NUCLEAR POWER STATION
UNITS 1, 2 AND 3 RADIOACTIVE EFFLUENT RELEASE REPORT
January Through June 2000

DOCKET NUMBERS: 50-010/50-237/50-249

SUMMATION OF ALL GASEOUS RELEASES

	UNITS	1ST Quarter	2nd Quarter	Est. Total Error, %
A. FISSION & ACTIVATION GASES				
1. Total Release	Ci	3.39E+02	1.98E+02	7.31%
2. Average Release Rate for the Period	µCi/sec	4.31E+01	2.51E+01	
3. Percent of Technical Specification Limit	%	*	*	
B. IODINES				
1. Total Iodine-131	Ci	1.12E-03	1.39E-03	21.6%
2. Average Release Rate of I-131 for the Period	µCi/sec	1.43E-04	1.77E-04	
3. Percent of Technical Specification Limit	%	*	*	
4. Total Iodine-131, Iodine-133 and Iodine-135	Ci	3.53E-02	4.75E-02	
C. PARTICULATES				
1. Particulates with half-lives > 8 days	Ci	5.30E-03	4.96E-03	34.1%
2. Average Release Rate for the Period	µCi/sec	6.74E-04	6.31E-04	
3. Percent of Technical Specification Limit	%	*	*	
4. Gross Alpha Radioactivity	Ci	7.92E-06	3.83E-06	
D. TRITIUM				
1. Total Release	Ci	9.77E+00	4.32E+00	7.89%
2. Average Release Rate for the Period	µCi/sec	1.24E+00	5.49E-01	
3. Percent of Technical Specification Limit	%	*	*	

July Through December 2000

	UNITS	3rd Quarter	4th Quarter	Est. Total Error, %
A. FISSION & ACTIVATION GASES				
1. Total Release	Ci	6.83E+01	2.71E+01	7.31%
2. Average Release Rate for the Period	µCi/sec	8.60E+00	3.41E+00	
3. Percent of Technical Specification Limit	%	*	*	
B. IODINES				
1. Total Iodine-131	Ci	1.42E-03	5.94E-04	21.6%
2. Average Release Rate of I-131 for the Period	µCi/sec	1.79E-04	7.48E-05	
3. Percent of Technical Specification Limit	%	*	*	
4. Total Iodine-131, Iodine-133 and Iodine-135	Ci	3.49E-02	5.99E-03	
C. PARTICULATES				
1. Particulates with half-lives > 8 days	Ci	2.25E-03	4.14E-03	34.1%
2. Average Release Rate for the Period	µCi/sec	2.83E-04	5.21E-04	
3. Percent of Technical Specification Limit	%	*	*	
4. Gross Alpha Radioactivity	Ci	7.44E-06	3.08E-06	
D. TRITIUM				
1. Total Release	Ci	4.01E+00	1.63E+01	7.89%
2. Average Release Rate for the Period	µCi/sec	5.04E-01	2.05E+00	
3. Percent of Technical Specification Limit	%	*	*	

*The information is contained in the Radiological Impact on Man section of the report. Total airborne release data are provided which include fission and activation gases, iodines, particulates, tritium.

Table 1.2-1

DRESDEN NUCLEAR POWER STATION
UNITS 1, 2 AND 3 RADIOACTIVE EFFLUENT RELEASE REPORT
January Through June 2000

DOCKET NUMBERS: 50-010/50-237/50-249

SUMMATION OF ALL LIQUID RELEASES

	UNITS	1ST Quarter	2nd Quarter	Est. Total Error, %
A. FISSION & ACTIVATION PRODUCTS				
1. Total Release (not including H-3, gases, alpha)	Ci	7.67E-03	1.45E-02	10.6%
2. Average Diluted Conc. During Period	µCi/ml	6.06E-09	1.03E-08	
3. Percent of Technical Specification Limit	%	*	*	
B. TRITIUM				
1. Total Release	Ci	3.71E+01	3.48E+01	11.4%
2. Average Diluted Conc. During Release	µCi/ml	2.93E-05	2.47E-05	
3. Percent of Technical Specification Limit	%	*	*	
C. DISSOLVED AND ENTRAINED GASES				
1. Total Release	Ci	5.28E-05	3.12E-05	5.58%
2. Average Diluted Conc. During Period	µCi/ml	4.17E-11	2.21E-11	
3. Percent of Technical Specification Limit	%	*	*	
D. GROSS ALPHA ACTIVITY				
1. Total Release	Ci	1.85E-01	<LLD	15.1%
E. VOLUME OF WASTE RELEASED (prior to dilution)	Liters	6.36E+06	7.20E+06	5.00%
F. VOLUME OF DILUTION WATER USED DURING PERIOD	Liters	1.26E+09	1.40E+09	5.00%

July Through December 2000

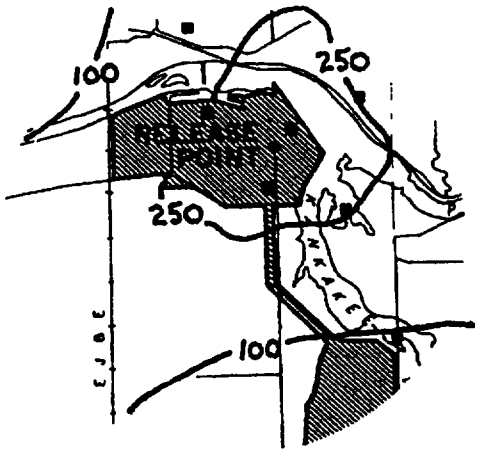
	UNITS	3rd Quarter	4th Quarter	Est. Total Error, %
A. FISSION & ACTIVATION PRODUCTS				
1. Total Release (not including H-3, gases, alpha)	Ci	4.98E+00	4.58E-01	10.6%
2. Average Diluted Conc. During Period	µCi/ml	3.96E-06	6.97E-07	
3. Percent of Technical Specification Limit	%	*	*	
B. TRITIUM				
1. Total Release	Ci	6.15E+01	3.23E+01	11.4%
2. Average Diluted Conc. During Release	µCi/ml	4.90E-05	4.92E-05	
3. Percent of Technical Specification Limit	%	*	*	
C. DISSOLVED AND ENTRAINED GASES				
1. Total Release	Ci	2.98E-05	9.64E-05	5.58%
2. Average Diluted Conc. During Period	µCi/ml	2.37E-11	1.47E-10	
3. Percent of Technical Specification Limit	%	*	*	
D. GROSS ALPHA ACTIVITY				
1. Total Release	Ci	<LLD	<LLD	15.1%
E. VOLUME OF WASTE RELEASED (prior to dilution)	Liters	5.72E+06	7.59E+06	5.00%
F. VOLUME OF DILUTION WATER USED DURING PERIOD	Liters	1.25E+09	6.49E+08	5.00%

*The information is contained in the Radiological Impact on Man section of the report.

Figure 3.1-1

Estimated Cumulative Gamma Dose (in mrem) from the Dresden Station for the period January-December 2000

Isopleth Labels
Small figure - multiply by 10^{-5}
Large figure - multiply by 10^{-5}



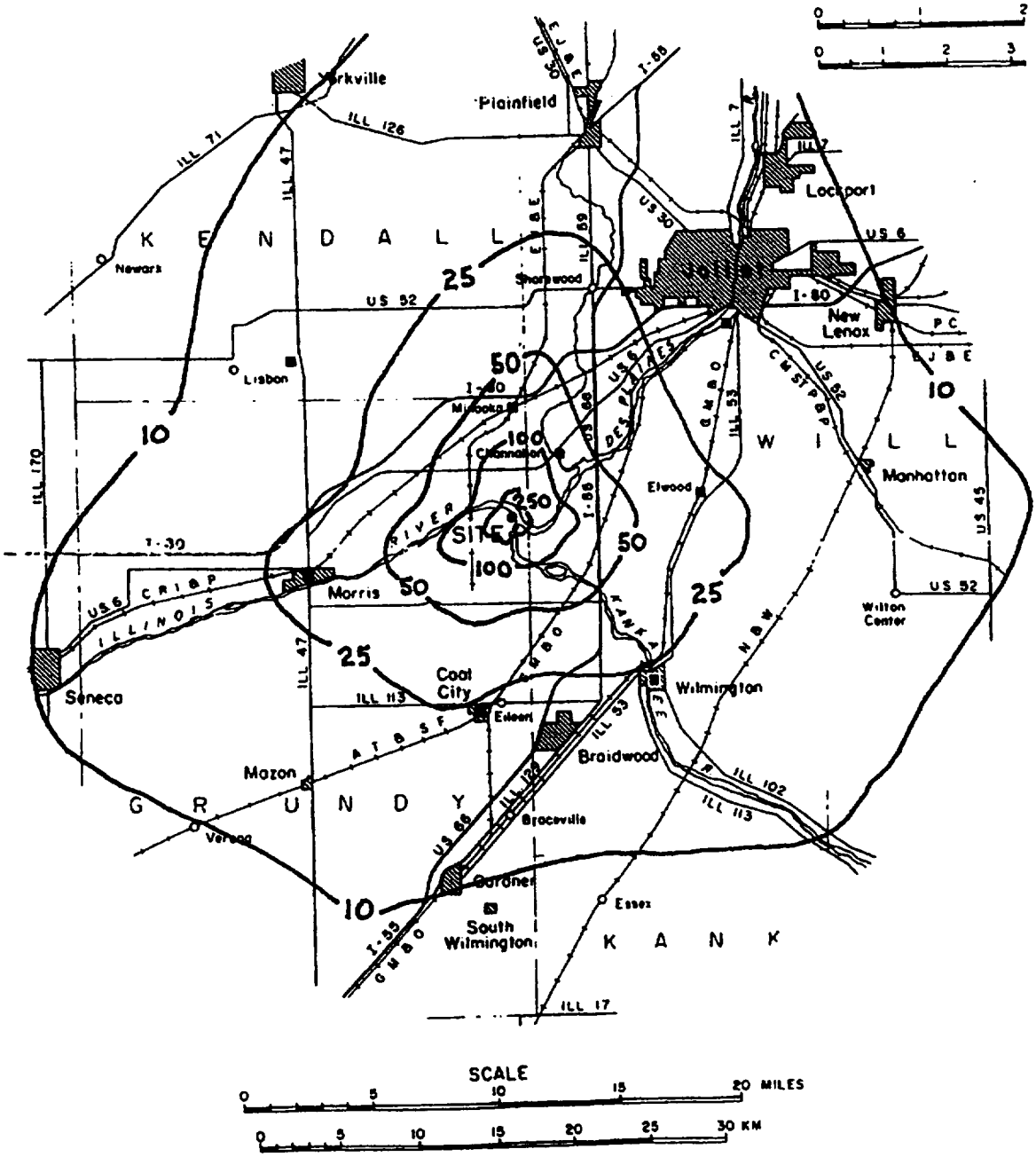
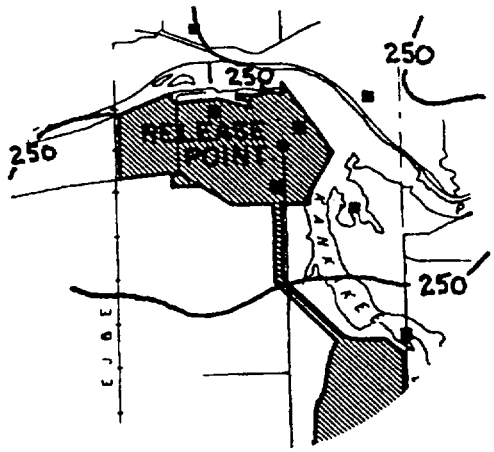


Figure 3.1-2

Estimated Total Concentrations (in pCi/m3) of Noble Gases from the Dresden Station for the period January-December 2000

Isopleth Labels
Small figure - multiply by 10^{-2}
Large figure - multiply by 10^{-2}



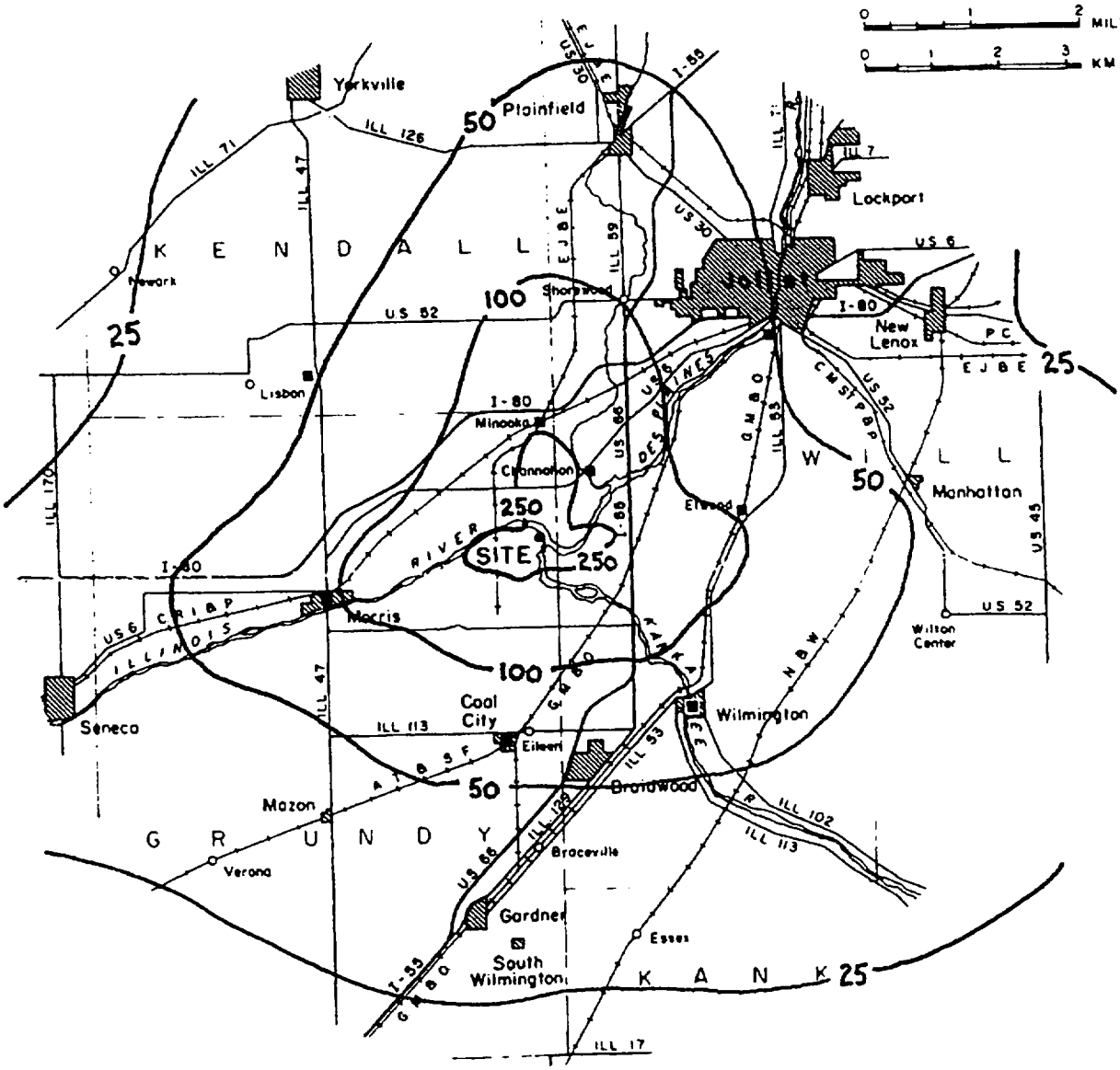
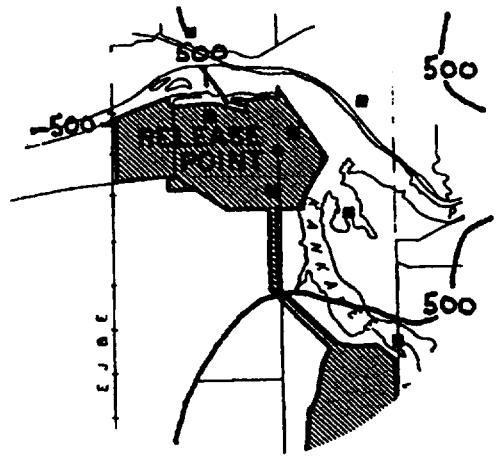


Figure 3.1-3

Estimated Total Concentrations (in pCi/m3) of Iodines from the Dresden Station for the period January-December 2000

Isopleth Labels
Small figure - multiply by 10^{-6}
Large figure - multiply by 10^{-6}



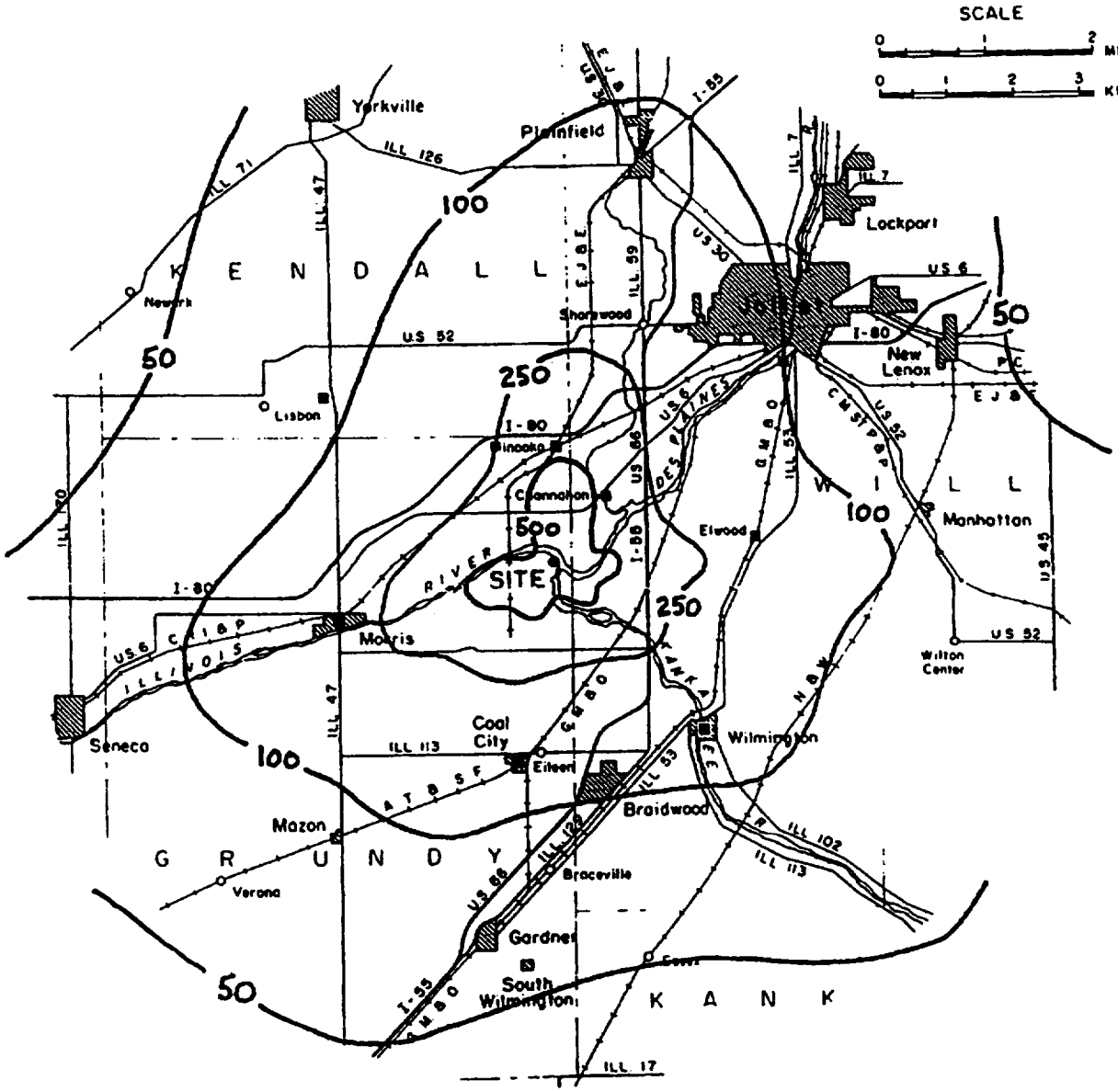


Figure 3.1-4

Estimated Total Concentrations (in pCi/m3) of Particulates from the Dresden Station for the period January-December 2000

Isopleth Labels
Small figure - multiply by 10^{-6}
Large figure - multiply by 10^{-6}

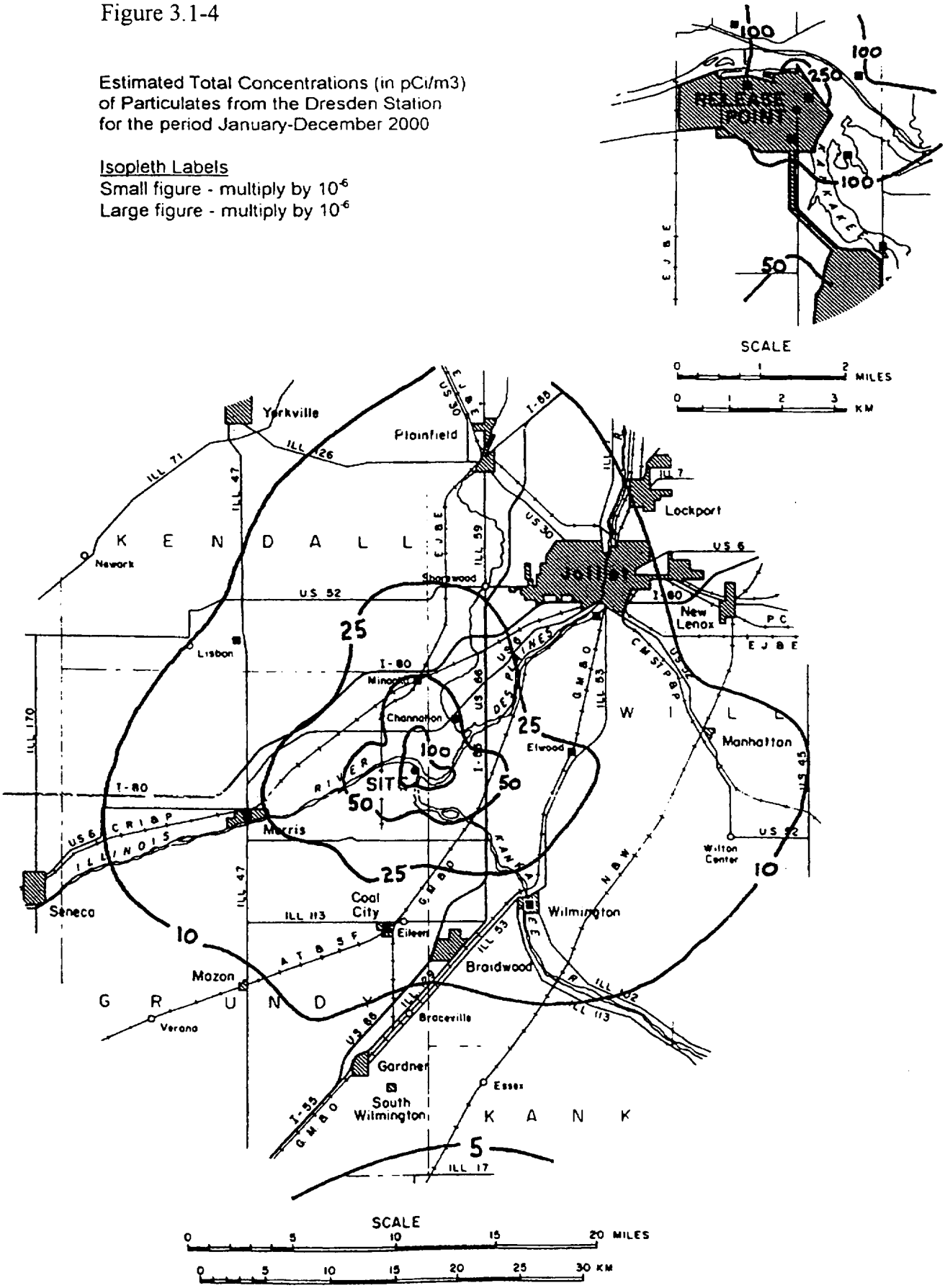


Table 3.1-1

DRESDEN STATION UNIT ONE

ACTUAL 2000
MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 03/27/01
INFANT RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	6.52E-12 (N)	2.61E-11 (N)	6.83E-07 (N)	0.00E+00 ( )	6.83E-07 (N)
BETA AIR (MRAD)	1.22E-12 (E)	4.88E-12 (E)	1.03E-05 (E)	0.00E+00 ( )	1.03E-05 (E)
TOT. BODY (MREM)	4.90E-12 (N)	1.96E-11 (N)	2.68E-06 (WSW)	0.00E+00 ( )	2.68E-06 (WSW)
SKIN (MREM)	5.95E-12 (N)	2.39E-11 (N)	7.50E-06 (E)	0.00E+00 ( )	7.50E-06 (E)
ORGAN (MREM)	3.02E-06 (N)	1.16E-06 (SSE)	1.54E-06 (SSE)	7.84E-04 (NNW)	7.88E-04 (NNW)
	LUNG	LIVER	LIVER	LIVER	LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

COMPLIANCE STATUS - 10CFR 50 APP. I
INFANT RECEPTOR

	QTRLY CRIT	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY CRIT	% OF APP. I
		% OF APP I.					
GAMMA AIR (MRAD)	5.0	0.00	0.00	0.00	0.00	10.0	0.00
BETA AIR (MRAD)	10.0	0.00	0.00	0.00	0.00	20.0	0.00
TOT. BODY (MREM)	2.5	0.00	0.00	0.00	0.00	5.0	0.00
SKIN (MREM)	7.5	0.00	0.00	0.00	0.00	15.0	0.00
ORGAN (MREM)	7.5	0.00	0.00	0.00	0.01	15.0	0.01
		LUNG	LIVER	LIVER	LIVER		LIVER

RESULTS BASED UPON: CODM ANNEX REVISION 1.1 JULY 1994
CODM SOFTWARE VERSION 1.1 January 1995
CODM DATABASE VERSION 1.1 January 1995

Table 3.1-1 (continued)

DRESDEN STATION UNIT ONE

ACTUAL 2000
MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 03/27/01
CHILD RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR	6.52E-12	2.61E-11	6.83E-07	0.00E+00	6.83E-07
(MRAD)	(N)	(N)	(N)	( )	(N)
BETA AIR	1.22E-12	4.88E-12	1.03E-05	0.00E+00	1.03E-05
(MRAD)	(E)	(E)	(E)	( )	(E)
TOT. BODY	4.90E-12	1.96E-11	2.68E-06	0.00E+00	2.68E-06
(MREM)	(N)	(N)	(WSW)	( )	(WSW)
SKIN	5.95E-12	2.39E-11	7.50E-06	0.00E+00	7.50E-06
(MREM)	(N)	(N)	(E)	( )	(E)
ORGAN	3.09E-06	3.17E-06	7.29E-06	7.84E-04	7.92E-04
(MREM)	(N)	(SSE)	(SSE)	(NNW)	(NNW)
	LUNG	LIVER	LIVER	BONE	LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

COMPLIANCE STATUS - 10CFR 50 APP. I
CHILD RECEPTOR

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
		% OF APP I.					
GAMMA AIR (MRAD)	5.0	0.00	0.00	0.00	0.00	10.0	0.00
BETA AIR (MRAD)	10.0	0.00	0.00	0.00	0.00	20.0	0.00
TOT. BODY (MREM)	2.5	0.00	0.00	0.00	0.00	5.0	0.00
SKIN (MREM)	7.5	0.00	0.00	0.00	0.00	15.0	0.00
ORGAN (MREM)	7.5	0.00	0.00	0.00	0.01	15.0	0.01
		LUNG	LIVER	LIVER	BONE		LIVER

RESULTS BASED UPON: CODM ANNEX REVISION 1.1 JULY 1994
CODM SOFTWARE VERSION 1.1 January 1995
CODM DATABASE VERSION 1.1 January 1995

Table 3.1-1 (continued)

DRESDEN STATION UNIT ONE

ACTUAL 2000
MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 03/27/01
TEENAGER RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR	6.52E-12	2.61E-11	6.83E-07	0.00E+00	6.83E-07
(MRAD)	(N)	(N)	(N)	( )	(N)
BETA AIR	1.22E-12	4.88E-12	1.03E-05	0.00E+00	1.03E-05
(MRAD)	(E)	(E)	(E)	( )	(E)
TOT. BODY	4.90E-12	1.96E-11	2.68E-06	0.00E+00	2.68E-06
(MREM)	(N)	(N)	(WSW)	( )	(WSW)
SKIN	5.95E-12	2.38E-11	7.50E-06	0.00E+00	7.50E-06
(MREM)	(N)	(N)	(E)	( )	(E)
ORGAN	2.96E-06	2.29E-06	4.97E-06	7.79E-04	7.86E-04
(MREM)	(N)	(SSE)	(SSE)	(NNW)	(NNW)
	LUNG	LIVER	LIVER	LIVER	LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

COMPLIANCE STATUS - 10CFR 50 APP. I
TEENAGER RECEPTOR

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
		% OF APP I.					
GAMMA AIR (MRAD)	5.0	0.00	0.00	0.00	0.00	10.0	0.00
BETA AIR (MRAD)	10.0	0.00	0.00	0.00	0.00	20.0	0.00
TOT. BODY (MREM)	2.5	0.00	0.00	0.00	0.00	5.0	0.00
SKIN (MREM)	7.5	0.00	0.00	0.00	0.00	15.0	0.00
ORGAN (MREM)	7.5	0.00	0.00	0.00	0.01	15.0	0.01
		LUNG	LIVER	LIVER	LIVER		LIVER

RESULTS BASED UPON: ODCM ANNEX REVISION 1.1 JULY 1994
ODCM SOFTWARE VERSION 1.1 January 1995
ODCM DATABASE VERSION 1.1 January 1995

Table 3.1-1 (continued)

DRESDEN STATION UNIT ONE

ACTUAL 2000
MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 03/27/01
ADULT RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR	6.52E-12	2.61E-11	6.83E-07	0.00E+00	6.83E-07
(MRAD)	(N)	(N)	(N)	( )	(N)
BETA AIR	1.22E-12	4.88E-12	1.03E-05	0.00E+00	1.03E-05
(MRAD)	(E)	(E)	(E)	( )	(E)
TOT. BODY	4.90E-12	1.96E-11	2.68E-06	0.00E+00	2.68E-06
(MREM)	(N)	(N)	(WSW)	( )	(WSW)
SKIN	5.95E-12	2.39E-11	7.50E-06	0.00E+00	7.50E-06
(MREM)	(N)	(N)	(E)	( )	(E)
ORGAN	3.02E-06	2.08E-06	4.39E-06	7.77E-04	7.84E-04
(MREM)	(N)	(SSE)	(SSE)	(NNW)	(NNW)
	LUNG	LIVER	LIVER	LIVER	LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

COMPLIANCE STATUS - 10CFR 50 APP. I
ADULT RECEPTOR

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
		———	———	% OF APP I.	———	———	
GAMMA AIR (MRAD)	5.0	0.00	0.00	0.00	0.00	10.0	0.00
BETA AIR (MRAD)	10.0	0.00	0.00	0.00	0.00	20.0	0.00
TOT. BODY (MREM)	2.5	0.00	0.00	0.00	0.00	5.0	0.00
SKIN (MREM)	7.5	0.00	0.00	0.00	0.00	15.0	0.00
ORGAN (MREM)	7.5	0.00	0.00	0.00	0.01	15.0	0.01
		LUNG	LIVER	LIVER	LIVER		LIVER

RESULTS BASED UPON: CODM ANNEX REVISION 1.1 JULY 1994
CODM SOFTWARE VERSION 1.1 January 1995
CODM DATABASE VERSION 1.1 January 1995

Table 3.1-1 (continued)

DRESDEN STATION UNIT TWO

ACTUAL 2000
MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 03/27/01
INFANT RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	8.89E-05 (N)	1.17E-04 (N)	1.76E-04 (N)	1.33E-04 (N)	5.14E-04 (N)
BETA AIR (MRAD)	3.53E-05 (E)	2.86E-05 (E)	4.22E-05 (N)	9.37E-06 (E)	1.12E-04 (N)
TOT. BODY (MREM)	6.71E-05 (N)	8.82E-05 (N)	1.32E-04 (N)	1.00E-04 (N)	3.88E-04 (N)
SKIN (MREM)	9.32E-05 (N)	1.11E-04 (N)	1.54E-04 (N)	1.10E-04 (N)	4.69E-04 (N)
ORGAN (MREM)	5.03E-04 (N)	1.55E-04 (N)	2.47E-04 (N)	5.85E-04 (E)	1.46E-03 (N)
	LUNG	THYROID	THYROID	THYROID	THYROID

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

COMPLIANCE STATUS - 10CFR 50 APP. I
INFANT RECEPTOR

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
		——— % OF APP I. ———					
GAMMA AIR (MRAD)	5.0	0.00	0.00	0.00	0.00	10.0	0.01
BETA AIR (MRAD)	10.0	0.00	0.00	0.00	0.00	20.0	0.00
TOT. BODY (MREM)	2.5	0.00	0.00	0.01	0.00	5.0	0.01
SKIN (MREM)	7.5	0.00	0.00	0.00	0.00	15.0	0.00
ORGAN (MREM)	7.5	0.01	0.00	0.00	0.01	15.0	0.01
		LUNG	THYROID	THYROID	THYROID		THYROID

RESULTS BASED UPON: CODM ANNEX REVISION 1.1 JULY 1994
CODM SOFTWARE VERSION 1.1 January 1995
CODM DATABASE VERSION 1.1 January 1995

Table 3.1-1 (continued)

DRESDEN STATION UNIT TWO

ACTUAL 2000
MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 03/27/01
CHILD RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR	8.89E-05	1.17E-04	1.76E-04	1.33E-04	5.14E-04
(MRAD)	(N)	(N)	(N)	(N)	(N)
BETA AIR	3.53E-05	2.86E-05	4.22E-05	9.37E-06	1.12E-04
(MRAD)	(E)	(E)	(N)	(E)	(N)
TOT. BODY	6.71E-05	8.82E-05	1.32E-04	1.00E-04	3.88E-04
(MREM)	(N)	(N)	(N)	(N)	(N)
SKIN	9.32E-05	1.11E-04	1.54E-04	1.10E-04	4.69E-04
(MREM)	(N)	(N)	(N)	(N)	(N)
ORGAN	5.10E-04	2.68E-04	4.05E-04	1.04E-03	2.21E-03
(MREM)	(N)	(N)	(N)	(N)	(N)
	LUNG	THYROID	THYROID	THYROID	THYROID

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

COMPLIANCE STATUS - 10CFR 50 APP. I
CHILD RECEPTOR

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
	———	———	———	% OF APP I.	———	———	———
GAMMA AIR (MRAD)	5.0	0.00	0.00	0.00	0.00	10.0	0.01
BETA AIR (MRAD)	10.0	0.00	0.00	0.00	0.00	20.0	0.00
TOT. BODY (MREM)	2.5	0.00	0.00	0.01	0.00	5.0	0.01
SKIN (MREM)	7.5	0.00	0.00	0.00	0.00	15.0	0.00
ORGAN (MREM)	7.5	0.01	0.00	0.01	0.01	15.0	0.01
		LUNG	THYROID	THYROID	THYROID		THYROID

RESULTS BASED UPON: ODCM ANNEX REVISION 1.1 JULY 1994
ODCM SOFTWARE VERSION 1.1 January 1995
ODCM DATABASE VERSION 1.1 January 1995

Table 3.1-1 (continued)

DRESDEN STATION UNIT TWO

ACTUAL 2000
MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 03/27/01
TEENAGER RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR	8.89E-05	1.17E-04	1.76E-04	1.33E-04	5.14E-04
(MRAD)	(N)	(N)	(N)	(N)	(N)
BETA AIR	3.53E-05	2.86E-05	4.22E-05	9.37E-06	1.12E-04
(MRAD)	(E)	(E)	(N)	(E)	(N)
TOT. BODY	6.71E-05	8.82E-05	1.32E-04	1.00E-04	3.88E-04
(MREM)	(N)	(N)	(N)	(N)	(N)
SKIN	9.32E-05	1.11E-04	1.54E-04	1.10E-04	4.69E-04
(MREM)	(N)	(N)	(N)	(N)	(N)
ORGAN	5.10E-04	2.04E-04	3.19E-04	7.75E-04	1.79E-03
(MREM)	(N)	(N)	(N)	(N)	(N)
	LUNG	THYROID	THYROID	THYROID	THYROID

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

COMPLIANCE STATUS - 10CFR 50 APP. I
TEENAGER RECEPTOR

	% OF APP I.						
	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
GAMMA AIR (MRAD)	5.0	0.00	0.00	0.00	0.00	10.0	0.01
BETA AIR (MRAD)	10.0	0.00	0.00	0.00	0.00	20.0	0.00
TOT. BODY (MREM)	2.5	0.00	0.00	0.01	0.00	5.0	0.01
SKIN (MREM)	7.5	0.00	0.00	0.00	0.00	15.0	0.00
ORGAN (MREM)	7.5	0.01	0.00	0.00	0.01	15.0	0.01
		LUNG	THYROID	THYROID	THYROID		THYROID

RESULTS BASED UPON: ODCM ANNEX REVISION 1.1 JULY 1994
ODCM SOFTWARE VERSION 1.1 January 1995
ODCM DATABASE VERSION 1.1 January 1995

Table 3.1-1 (continued)

DRESDEN STATION UNIT TWO

ACTUAL 2000
MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 03/27/01
ADULT RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	8.88E-05 (N)	1.17E-04 (N)	1.76E-04 (N)	1.33E-04 (N)	5.14E-04 (N)
BETA AIR (MRAD)	3.53E-05 (E)	2.86E-05 (E)	4.22E-05 (N)	9.37E-06 (E)	1.12E-04 (N)
TOT. BODY (MREM)	6.71E-05 (N)	8.82E-05 (N)	1.32E-04 (N)	1.00E-04 (N)	3.88E-04 (N)
SKIN (MREM)	9.32E-05 (N)	1.11E-04 (N)	1.54E-04 (N)	1.10E-04 (N)	4.69E-04 (N)
ORGAN (MREM)	5.07E-04 (N)	2.00E-04 (N)	3.19E-04 (N)	7.93E-04 (N)	1.81E-03 (N)
	LUNG	THYROID	THYROID	THYROID	THYROID

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

COMPLIANCE STATUS - 10CFR 50 APP. I
ADULT RECEPTOR

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
	———	% OF APP I.	———				
GAMMA AIR (MRAD)	5.0	0.00	0.00	0.00	0.00	10.0	0.01
BETA AIR (MRAD)	10.0	0.00	0.00	0.00	0.00	20.0	0.00
TOT. BODY (MREM)	2.5	0.00	0.00	0.01	0.00	5.0	0.01
SKIN (MREM)	7.5	0.00	0.00	0.00	0.00	15.0	0.00
ORGAN (MREM)	7.5	0.01	0.00	0.00	0.01	15.0	0.01
		LUNG	THYROID	THYROID	THYROID		THYROID

RESULTS BASED UPON: ODCM ANNEX REVISION 1.1 JULY 1994
ODCM SOFTWARE VERSION 1.1 January 1995
ODCM DATABASE VERSION 1.1 January 1995

Table 3.1-1 (continued)

DRESDEN STATION UNIT THREE

ACTUAL 2000
MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 03/27/01
INFANT RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR	6.85E-04	6.01E-04	6.23E-04	3.60E-04	2.27E-03
(MRAD)	(N)	(N)	(N)	(N)	(N)
BETA AIR	2.94E-04	1.69E-04	2.29E-04	2.61E-05	6.98E-04
(MRAD)	(E)	(E)	(N)	(E)	(N)
TOT. BODY	5.17E-04	4.53E-04	4.68E-04	2.72E-04	1.71E-03
(MREM)	(N)	(N)	(N)	(N)	(N)
SKIN	7.32E-04	5.83E-04	5.71E-04	3.00E-04	2.19E-03
(MREM)	(N)	(N)	(N)	(N)	(N)
ORGAN	1.79E-03	3.00E-03	3.90E-03	1.99E-03	1.06E-02
(MREM)	(SSW)	(E)	(E)	(E)	(E)
	THYROID	THYROID	THYROID	THYROID	THYROID

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

COMPLIANCE STATUS - 10CFR 50 APP. I
INFANT RECEPTOR

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
		% OF APP I.					
GAMMA AIR (MRAD)	5.0	0.01	0.01	0.01	0.01	10.0	0.02
BETA AIR (MRAD)	10.0	0.00	0.00	0.00	0.00	20.0	0.00
TOT. BODY (MREM)	2.5	0.02	0.02	0.02	0.01	5.0	0.03
SKIN (MREM)	7.5	0.01	0.01	0.01	0.00	15.0	0.01
ORGAN (MREM)	7.5	0.02	0.04	0.05	0.03	15.0	0.07
		THYROID	THYROID	THYROID	THYROID		THYROID

RESULTS BASED UPON: CODM ANNEX REVISION 1.1 JULY 1994
CODM SOFTWARE VERSION 1.1 January 1995
CODM DATABASE VERSION 1.1 January 1995

Table 3.1-1 (continued)

DRESDEN STATION UNIT THREE

ACTUAL 2000
MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 03/27/01
CHILD RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR	6.85E-04	6.01E-04	6.23E-04	3.60E-04	2.27E-03
(MRAD)	(N)	(N)	(N)	(N)	(N)
BETA AIR	2.94E-04	1.69E-04	2.29E-04	2.61E-05	6.98E-04
(MRAD)	(E)	(E)	(N)	(E)	(N)
TOT. BODY	5.17E-04	4.53E-04	4.68E-04	2.72E-04	1.71E-03
(MREM)	(N)	(N)	(N)	(N)	(N)
SKIN	7.32E-04	5.83E-04	5.71E-04	3.00E-04	2.19E-03
(MREM)	(N)	(N)	(N)	(N)	(N)
ORGAN	1.97E-03	6.78E-03	9.30E-03	5.15E-03	2.29E-02
(MREM)	(N)	(SSE)	(SSE)	(N)	(N)
	THYROID	THYROID	THYROID	THYROID	THYROID

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

COMPLIANCE STATUS - 10CFR 50 APP. I
CHILD RECEPTOR

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
		% OF APP I.					
GAMMA AIR (MRAD)	5.0	0.01	0.01	0.01	0.01	10.0	0.02
BETA AIR (MRAD)	10.0	0.00	0.00	0.00	0.00	20.0	0.00
TOT. BODY (MREM)	2.5	0.02	0.02	0.02	0.01	5.0	0.03
SKIN (MREM)	7.5	0.01	0.01	0.01	0.00	15.0	0.01
ORGAN (MREM)	7.5	0.03	0.09	0.12	0.07	15.0	0.15
		THYROID	THYROID	THYROID	THYROID		THYROID

RESULTS BASED UPON: ODCM ANNEX REVISION 1.1 JULY 1994
ODCM SOFTWARE VERSION 1.1 January 1995
ODCM DATABASE VERSION 1.1 January 1995

Table 3.1-1 (continued)

DRESDEN STATION UNIT THREE

ACTUAL 2000
MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 03/27/01
TEENAGER RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	6.85E-04 (N)	6.01E-04 (N)	6.23E-04 (N)	3.60E-04 (N)	2.27E-03 (N)
BETA AIR (MRAD)	2.94E-04 (E)	1.68E-04 (E)	2.29E-04 (N)	2.61E-05 (E)	6.98E-04 (N)
TOT. BODY (MREM)	5.17E-04 (N)	4.53E-04 (N)	4.68E-04 (N)	2.72E-04 (N)	1.71E-03 (N)
SKIN (MREM)	7.32E-04 (N)	5.83E-04 (N)	5.71E-04 (N)	3.00E-04 (N)	2.19E-03 (N)
ORGAN (MREM)	1.67E-03 (N)	4.40E-03 (SSE)	6.03E-03 (SSE)	3.58E-03 (N)	1.55E-02 (N)
	THYROID	THYROID	THYROID	THYROID	THYROID

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

COMPLIANCE STATUS - 10CFR 50 APP. I
TEENAGER RECEPTOR

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
		% OF APP I.					
GAMMA AIR (MRAD)	5.0	0.01	0.01	0.01	0.01	10.0	0.02
BETA AIR (MRAD)	10.0	0.00	0.00	0.00	0.00	20.0	0.00
TOT. BODY (MREM)	2.5	0.02	0.02	0.02	0.01	5.0	0.03
SKIN (MREM)	7.5	0.01	0.01	0.01	0.00	15.0	0.01
ORGAN (MREM)	7.5	0.02	0.06	0.08	0.05	15.0	0.10
		THYROID	THYROID	THYROID	THYROID		THYROID

RESULTS BASED UPON: ODCM ANNEX REVISION 1.1 JULY 1994
ODCM SOFTWARE VERSION 1.1 January 1995
ODCM DATABASE VERSION 1.1 January 1995

Table 3.1-1 (continued)

DRESDEN STATION UNIT THREE

ACTUAL 2000
MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 03/27/01
ADULT RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR	6.85E-04	6.01E-04	6.23E-04	3.60E-04	2.27E-03
(MRAD)	(N)	(N)	(N)	(N)	(N)
BETA AIR	2.94E-04	1.69E-04	2.29E-04	2.61E-05	6.98E-04
(MRAD)	(E)	(E)	(N)	(E)	(N)
TOT. BODY	5.17E-04	4.53E-04	4.68E-04	2.72E-04	1.71E-03
(MREM)	(N)	(N)	(N)	(N)	(N)
SKIN	7.32E-04	5.83E-04	5.71E-04	3.00E-04	2.19E-03
(MREM)	(N)	(N)	(N)	(N)	(N)
ORGAN	1.80E-03	4.25E-03	5.85E-03	3.53E-03	1.53E-02
(MREM)	(N)	(SSE)	(SSE)	(N)	(N)
	THYROID	THYROID	THYROID	THYROID	THYROID

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

COMPLIANCE STATUS - 10CFR 50 APP. I
ADULT RECEPTOR

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
		% OF APP I.					
GAMMA AIR (MRAD)	5.0	0.01	0.01	0.01	0.01	10.0	0.02
BETA AIR (MRAD)	10.0	0.00	0.00	0.00	0.00	20.0	0.00
TOT. BODY (MREM)	2.5	0.02	0.02	0.02	0.01	5.0	0.03
SKIN (MREM)	7.5	0.01	0.01	0.01	0.00	15.0	0.01
ORGAN (MREM)	7.5	0.02	0.06	0.08	0.05	15.0	0.10
		THYROID	THYROID	THYROID	THYROID		THYROID

RESULTS BASED UPON: ODCM ANNEX REVISION 1.1 JULY 1994
ODCM SOFTWARE VERSION 1.1 January 1995
ODCM DATABASE VERSION 1.1 January 1995

Table 3.2-1

DRESDEN STATION UNIT TWO

ACTUAL 2000
MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 03/27/01
INFANT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	1.14E-04	1.07E-04	2.49E-04	9.94E-05	5.70E-04
INTERNAL ORGAN	1.16E-04	1.12E-04	4.20E-04	1.01E-04	7.48E-04
	LIVER	LIVER	LIVER	LIVER	LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

COMPLIANCE STATUS - 10 CFR 50 APP. I

	QTRLY CRJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY CRJ	% OF APP. I
		% OF APP I.					
TOTAL BODY (MREM)	1.5	0.01	0.01	0.02	0.01	3.0	0.02
CRIT. ORGAN(MREM)	5.0	0.00	0.00	0.01	0.00	10.0	0.01
		LIVER	LIVER	LIVER	LIVER		LIVER

RESULTS BASED UPON: CODM ANNEX REVISION 1.1 JULY 1994
CODM SOFTWARE VERSION 1.1 January 1995
CODM DATABASE VERSION 1.1 January 1995

Table 3.2-1 (continued)

DRESDEN STATION UNIT TWO

ACTUAL 2000
MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 03/27/01
CHILD RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	1.29E-04	1.39E-04	4.65E-04	1.34E-04	8.67E-04
INTERNAL ORGAN	1.92E-04	2.98E-04	1.66E-03	1.70E-04	1.98E-03
	LIVER	LIVER	BONE	LIVER	BONE

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

COMPLIANCE STATUS - 10 CFR 50 APP. I

		——— % OF APP I. ———					
	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
TOTAL BODY (MREM)	1.5	0.01	0.01	0.03	0.01	3.0	0.03
CRIT. ORGAN(MREM)	5.0	0.00	0.01	0.03	0.00	10.0	0.02
		LIVER	LIVER	BONE	LIVER		BONE

RESULTS BASED UPON: ODCM ANNEX REVISION 1.1 JULY 1994
ODCM SOFTWARE VERSION 1.1 January 1995
ODCM DATABASE VERSION 1.1 January 1995

Table 3.2-1 (continued)

DRESDEN STATION UNIT TWO

ACTUAL 2000
MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
PERIOD OF RELEASE – 01/01/00 TO 12/31/00 CALCULATED 03/27/01
TEENAGER RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	9.09E-05	1.29E-04	3.11E-04	8.87E-05	6.19E-04
INTERNAL ORGAN	1.44E-04	2.61E-04	1.06E-03	1.35E-04	1.46E-03
	LIVER	LIVER	BONE	LIVER	LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

COMPLIANCE STATUS – 10 CFR 50 APP. I

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
		% OF APP I.					
TOTAL BODY (MREM)	1.5	0.01	0.01	0.02	0.01	3.0	0.02
CRIT. ORGAN(MREM)	5.0	0.00	0.01	0.02	0.00	10.0	0.01
		LIVER	LIVER	BONE	LIVER		LIVER

RESULTS BASED UPON: CODM ANNEX REVISION 1.1 JULY 1994
CODM SOFTWARE VERSION 1.1 January 1995
CODM DATABASE VERSION 1.1 January 1995

Table 3.2-1 (continued)

DRESDEN STATION UNIT TWO

ACTUAL 2000
MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 03/27/01
ADULT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	1.39E-04	2.09E-04	3.86E-04	1.17E-04	8.51E-04
INTERNAL ORGAN	1.68E-04	2.80E-04	1.04E-03	1.58E-04	1.54E-03
	LIVER	LIVER	BONE	LIVER	LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

COMPLIANCE STATUS - 10 CFR 50 APP. I

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
		% OF APP I.					
TOTAL BODY (MREM)	1.5	0.01	0.01	0.03	0.01	3.0	0.03
CRIT. ORGAN(MREM)	5.0	0.00	0.01	0.02	0.00	10.0	0.02
		LIVER	LIVER	BONE	LIVER		LIVER

RESULTS BASED UPON: CODM ANNEX REVISION 1.1 JULY 1994
CODM SOFTWARE VERSION 1.1 January 1995
CODM DATABASE VERSION 1.1 January 1995

Table 3.2-1 (continued)

DRESDEN STATION UNIT THREE

ACTUAL 2000
MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 03/27/01
INFANT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	1.14E-04	1.07E-04	3.63E-04	1.21E-04	7.05E-04
INTERNAL ORGAN	1.16E-04	1.12E-04	1.01E-03	1.80E-04	1.25E-03
	LIVER	LIVER	BONE	LIVER	LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

COMPLIANCE STATUS - 10 CFR 50 APP. I

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
		% OF APP I.					
TOTAL BODY (MREM)	1.5	0.01	0.01	0.02	0.01	3.0	0.02
CRIT. ORGAN(MREM)	5.0	0.00	0.00	0.02	0.00	10.0	0.01
		LIVER	LIVER	BONE	LIVER		LIVER

RESULTS BASED UPON: CODM ANNEX REVISION 1.1 JULY 1994
CODM SOFTWARE VERSION 1.1 January 1995
CODM DATABASE VERSION 1.1 January 1995

Table 3.2-1 (continued)

DRESDEN STATION UNIT THREE

ACTUAL 2000
MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 03/27/01
CHILD RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	1.29E-04	1.39E-04	9.31E-04	2.21E-04	1.42E-03
INTERNAL ORGAN	1.92E-04	2.96E-04	4.50E-03	5.69E-04	5.34E-03
	LIVER	LIVER	BONE	BONE	BONE

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

COMPLIANCE STATUS - 10 CFR 50 APP. I

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
		% OF APP I.					
TOTAL BODY (MREM)	1.5	0.01	0.01	0.06	0.01	3.0	0.05
CRIT. ORGAN(MREM)	5.0	0.00	0.01	0.09	0.01	10.0	0.05
		LIVER	LIVER	BONE	BONE		BONE

RESULTS BASED UPON: ODCM ANNEX REVISION 1.1 JULY 1994
ODCM SOFTWARE VERSION 1.1 January 1995
ODCM DATABASE VERSION 1.1 January 1995

Table 3.2-1 (continued)

DRESDEN STATION UNIT THREE

ACTUAL 2000
MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 03/27/01
TEENAGER RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	9.11E-05	1.28E-04	6.03E-04	1.43E-04	9.66E-04
INTERNAL ORGAN	1.44E-04	2.59E-04	2.84E-03	3.69E-04	3.41E-03
	LIVER	LIVER	BONE	LIVER	BONE

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

COMPLIANCE STATUS - 10 CFR 50 APP. I

	QTRLY CRJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY CRJ	% OF APP. I
		% OF APP I.					
TOTAL BODY (MREM)	1.5	0.01	0.01	0.04	0.01	3.0	0.03
CRIT. ORGAN(MREM)	5.0	0.00	0.01	0.06	0.01	10.0	0.03
		LIVER	LIVER	BONE	LIVER		BONE

RESULTS BASED UPON: CODM ANNEX REVISION 1.1 JULY 1994
CODM SOFTWARE VERSION 1.1 January 1995
CODM DATABASE VERSION 1.1 January 1995

Table 3.2-1 (continued)

DRESDEN STATION UNIT THREE

ACTUAL 2000
MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 03/27/01
ADULT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	1.39E-04	2.09E-04	6.64E-04	1.69E-04	1.18E-03
INTERNAL ORGAN	1.68E-04	2.79E-04	2.78E-03	3.82E-04	3.34E-03
	LIVER	LIVER	BONE	LIVER	BONE

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

COMPLIANCE STATUS - 10 CFR 50 APP. I

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
		% OF APP I.					
TOTAL BODY (MREM)	1.5	0.01	0.01	0.04	0.01	3.0	0.04
CRIT. ORGAN(MREM)	5.0	0.00	0.01	0.06	0.01	10.0	0.03
		LIVER	LIVER	BONE	LIVER		BONE

RESULTS BASED UPON: CDOM ANNEX REVISION 1.1 JULY 1994
CDOM SOFTWARE VERSION 1.1 January 1995
CDOM DATABASE VERSION 1.1 January 1995

Table 3.3-1

DRESDEN STATION UNIT ONE

10 CFR 20 COMPLIANCE ASSESSMENT

PERIOD OF ASSESSMENT 01/01/00 TO 12/31/00

CALCULATED 03/27/01

1. 10 CFR 20.1301 (a)(1) Compliance

Total Effective Dose Equivalent, mrem/yr 7.86E-04

10 CFR 20.1301 (a)(1) Limit mrem/yr 100.0

% of Limit 0.00

Compliance Summary - 10CFR20

	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	% of Limit
TEDE	2.93E-06	1.78E-06	5.93E-06	7.76E-04	0.00

RESULTS BASED UPON: CDOM ANNEX REVISION 1.1 JULY 1994
CDOM SOFTWARE VERSION 1.1 January 1995
CDOM DATABASE VERSION 1.1 January 1995

Table 3.3-1 (continued)

DRESDEN STATION UNIT ONE

10 CFR 20 COMPLIANCE ASSESSMENT

PERIOD OF ASSESSMENT 01/01/00 TO 12/31/00

CALCULATED 03/27/01

2. 10 CFR 20.1301 (d)/40 CFR 190 Compliance

		Dose (mrem)	Limit (mrem)	% of Limit
Whole Body (DDE)	Plume	2.68E-06		
	Skyshine	0.00E+00		
	Ground	7.70E-04		
	Total	7.73E-04	25.0	0.00
Organ Dose (CDE)	Thyroid	1.17E-05	75.0	0.00
	Gonads	1.26E-05	25.0	0.00
	Breast	1.16E-05	25.0	0.00
	Lung	1.20E-05	25.0	0.00
	Marrow	1.21E-05	25.0	0.00
	Bone	1.17E-05	25.0	0.00
	Remainder	1.34E-05	25.0	0.00
	CEDE	1.25E-05		
	TEDE	7.86E-04	100.0	0.00

RESULTS BASED UPON: CDOM ANNEX REVISION 1.1 JULY 1994
CDOM SOFTWARE VERSION 1.1 January 1995
CDOM DATABASE VERSION 1.1 January 1995

Table 3.3-1 (continued)

DRESDEN STATION UNIT TWO

10 CFR 20 COMPLIANCE ASSESSMENT

PERIOD OF ASSESSMENT 01/01/00 TO 12/31/00

CALCULATED 03/27/01

1. 10 CFR 20.1301 (a)(1) Compliance

Total Effective Dose Equivalent, mrem/yr 4.16E+00

10 CFR 20.1301 (a)(1) Limit mrem/yr 100.0

% of Limit 4.16

Compliance Summary - 10CFR20

	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	% of Limit
TEDE	1.10E+00	1.02E+00	1.03E+00	1.01E+00	4.16

RESULTS BASED UPON: CDOM ANNEX REVISION 1.1 JULY 1994
CDOM SOFTWARE VERSION 1.1 January 1995
CDOM DATABASE VERSION 1.1 January 1995

Table 3.3-1 (continued)

DRESDEN STATION UNIT TWO

10 CFR 20 COMPLIANCE ASSESSMENT

PERIOD OF ASSESSMENT 01/01/00 TO 12/31/00

CALCULATED 03/27/01

2. 10 CFR 20.1301 (d)/40 CFR 190 Compliance

		Dose (mrem)	Limit (mrem)	% of Limit
Whole Body (DDE)	Plume	3.88E-04		
	Skyshine	4.08E+00		
	Ground	9.58E-04		
	Total	4.08E+00	25.0	16.33
Organ Dose (CDE)	Thyroid	1.33E-03	75.0	0.00
	Gonads	2.15E-02	25.0	0.09
	Breast	1.14E-03	25.0	0.00
	Lung	1.17E-03	25.0	0.00
	Marrow	1.10E-01	25.0	0.44
	Bone	1.36E+00	25.0	5.45
	Remainder	5.16E-02	25.0	0.21
	CEDE	7.54E-02		
	TEDE	4.16E+00	100.0	4.16

RESULTS BASED UPON: CDCM ANNEX REVISION 1.1 JULY 1994
CDCM SOFTWARE VERSION 1.1 January 1995
CDCM DATABASE VERSION 1.1 January 1995

Table 3.3-1 (continued)

DRESDEN STATION UNIT THREE

10 CFR 20 COMPLIANCE ASSESSMENT

PERIOD OF ASSESSMENT 01/01/00 TO 12/31/00

CALCULATED 03/27/01

1. 10 CFR 20.1301 (a)(1) Compliance

Total Effective Dose Equivalent, mrem/yr 3.77E+00

10 CFR 20.1301 (a)(1) limit mrem/yr 100.0

% of limit 3.77

Compliance Summary - 10CFR20

	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	% of Limit
TEDE	1.02E+00	9.47E-01	8.17E-01	9.89E-01	3.77

RESULTS BASED UPON: CCOM ANNEX REVISION 1.1 JULY 1994
CCOM SOFTWARE VERSION 1.1 January 1995
CCOM DATABASE VERSION 1.1 January 1995

Table 3.3-1 (continued)

DRESDEN STATION UNIT THREE

10 CFR 20 COMPLIANCE ASSESSMENT

PERIOD OF ASSESSMENT 01/01/00 TO 12/31/00

CALCULATED 03/27/01

2. 10 CFR 20.1301 (d)/40 CFR 190 Compliance

		Dose (mrem)	Limit (mrem)	% of Limit
Whole Body (DDE)	Plume	1.71E-03		
	Skyshine	3.76E+00		
	Ground	1.93E-03		
	Total	3.77E+00	25.0	15.06
Organ Dose (CDE)	Thyroid	1.25E-02	75.0	0.02
	Gonads	7.82E-03	25.0	0.03
	Breast	7.73E-03	25.0	0.03
	Lung	7.77E-03	25.0	0.03
	Marrow	7.82E-03	25.0	0.03
	Bone	8.16E-03	25.0	0.03
	Remainder	8.74E-03	25.0	0.03
	CEDE	8.20E-03		
	TEDE	3.77E+00	100.0	3.77

RESULTS BASED UPON: CDDM ANNEX REVISION 1.1 JULY 1994
CDDM SOFTWARE VERSION 1.1 January 1995
CDDM DATABASE VERSION 1.1 January 1995

Table 3.4-1

DRESDEN STATION - UNIT 1

MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES

CURRENT PERIOD OF RELEASE: October 1 - December 31 YEAR: 2000

TYPE OF DOSE	CURRENT PERIOD	CURRENT QUARTER	THIRD QUARTER	SECOND QUARTER	FIRST QUARTER	ANNUAL
GAMMA AIR (mrad)	0.000E+00(N)	0.000E+00(N)	5.870E-07(WSW)	2.250E-10(N)	6.760E-11(N)	5.872E-07(WSW)
BETA AIR (mrad)	0.000E+00(N)	0.000E+00(N)	5.230E-05(WSW)	3.710E-11(SW)	9.010E-12(N)	5.230E-05(WSW)
WHOLE BODY (mrem)	2.120E-08(E)	2.120E-08(E)	4.230E-07(SSE)	2.900E-07(ESE)	9.430E-07(ESE)	1.345E-06(ESE)
SKIN (mrem)	2.480E-08(E)	2.480E-08(E)	2.950E-05(N)	3.400E-07(ESE)	1.110E-06(ESE)	3.057E-05(N)
ORGAN (mrem)	2.130E-09(E)	2.130E-09(E)	8.270E-09(WSW)	4.820E-09(SW)	1.880E-08(N)	2.990E-08(N)
CRITICAL PERS-ORG	TA-LN	TA-LN	TA-LN	TA-LN	TA-LN	TA-LN

COMPLIANCE STATUS

TYPE OF DOSE	10 CFR 50 APP. I QUARTERLY OBJECTIVE	% OF APP. I	10 CFR 50 APP.I YEARLY OBJECTIVE	% OF APP. I
GAMMA AIR (mrad)	5.0	.00	10.0	.00
BETA AIR (mrad)	10.0	.00	20.0	.00
WHOLE BODY (mrem)	2.5	.00	5.0	.00
SKIN (mrem)	7.5	.00	15.0	.00
ORGAN (mrem)	7.5	.00	15.0	.00
CRITICAL PERSON-ORGAN		(TA-LN)		(TA-LN)

CRITICAL ORGANS: BN=BONE. LV=LIVER. TB=TOTAL BODY. TH=THYROID. KD=KIDNEY. LN=LUNG. GI=GI-LLI
CRITICAL PERSON: AD=ADULT. TA=TEENAGER. CH=CHILD. IN=INFANT

Date of calculation: 4/16/2001

Table 3.4-1 (continued)

DRESDEN STATION - UNIT 2

MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES

CURRENT PERIOD OF RELEASE: October 1 - December 31 YEAR: 2000

TYPE OF DOSE	CURRENT PERIOD	CURRENT QUARTER	THIRD QUARTER	SECOND QUARTER	FIRST QUARTER	ANNUAL
GAMMA AIR (mrad)	3.120E-04(E)	3.120E-04(E)	3.884E-04(N)	2.140E-04(N)	2.840E-04(N)	1.040E-03(N)
BETA AIR (mrad)	6.150E-05(E)	6.150E-05(E)	8.065E-05(N)	1.195E-04(SW)	1.445E-04(N)	3.285E-04(N)
WHOLE BODY (mrem)	2.565E-04(ESE)	2.565E-04(ESE)	2.380E-04(NNE)	1.720E-04(NNE)	4.475E-04(SSE)	1.061E-03(SSE)
SKIN (mrem)	3.365E-04(ESE)	3.365E-04(ESE)	3.310E-04(NNE)	2.820E-04(NNE)	5.670E-04(SSE)	1.399E-03(SSE)
ORGAN (mrem)	2.887E-05(E)	2.887E-05(E)	6.297E-06(N)	4.721E-06(SW)	1.867E-05(N)	3.998E-05(N)
CRITICAL PERS-ORG	CH-TH	CH-TH	TA-LN	CH-TH	TA-LN	TA-LN

COMPLIANCE STATUS

TYPE OF DOSE	10 CFR 50 APP. I QUARTERLY OBJECTIVE	% OF APP. I	10 CFR 50 APP. I YEARLY OBJECTIVE	% OF APP. I
GAMMA AIR (mrad)	5.0	.01	10.0	.01
BETA AIR (mrad)	10.0	.00	20.0	.00
WHOLE BODY (mrem)	2.5	.01	5.0	.02
SKIN (mrem)	7.5	.00	15.0	.01
ORGAN (mrem)	7.5	.00	15.0	.00
CRITICAL PERSON-ORGAN		(CH-TH)		(TA-LN)

CRITICAL ORGANS: BN=BONE, LV=LIVER, TB=TOTAL BODY, TH=THYROID, KD=KIDNEY, LN=LUNG, GI=GI-LLI
CRITICAL PERSON: AD=ADULT, TA=TEENAGER, CH=CHILD, IN=INFANT

Date of calculation: 4/16/2001

Table 3.4-1 (continued)

DRESDEN STATION - UNIT 3

MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES

CURRENT PERIOD OF RELEASE: October 1 - December 31 YEAR: 2000

TYPE OF DOSE	CURRENT PERIOD	CURRENT QUARTER	THIRD QUARTER	SECOND QUARTER	FIRST QUARTER	ANNUAL
GAMMA AIR (mrad)	8.600E-04(E)	8.600E-04(E)	1.416E-03(N)	1.130E-03(N)	1.510E-03(N)	4.479E-03(N)
BETA AIR (mrad)	1.735E-04(E)	1.735E-04(E)	3.880E-04(N)	7.050E-04(SW)	1.165E-03(N)	2.090E-03(N)
WHOLE BODY (mrem)	6.125E-04(ENE)	6.125E-04(ENE)	8.755E-04(NNE)	7.796E-04(NNE)	1.089E-03(SSE)	3.093E-03(SSE)
SKIN (mrem)	8.185E-04(ESE)	8.185E-04(ESE)	1.256E-03(NNE)	1.385E-03(NNE)	1.820E-03(N)	4.607E-03(NNE)
ORGAN (mrem)	9.735E-05(E)	9.735E-05(E)	1.844E-04(WSW)	1.735E-04(SW)	2.670E-04(N)	5.709E-04(N)
CRITICAL PERS-ORG	CH-TH	CH-TH	CH-TH	CH-TH	CH-TH	CH-TH

COMPLIANCE STATUS

TYPE OF DOSE	10 CFR 50 APP. I QUARTERLY OBJECTIVE	% OF APP. I	10 CFR 50 APP. I YEARLY OBJECTIVE	% OF APP. I
GAMMA AIR (mrad)	5.0	.02	10.0	.04
BETA AIR (mrad)	10.0	.00	20.0	.01
WHOLE BODY (mrem)	2.5	.02	5.0	.06
SKIN (mrem)	7.5	.01	15.0	03
ORGAN (mrem)	7.5	.00	15.0	.00
CRITICAL PERSON-ORGAN		(CH-TH)		(CH-TH)

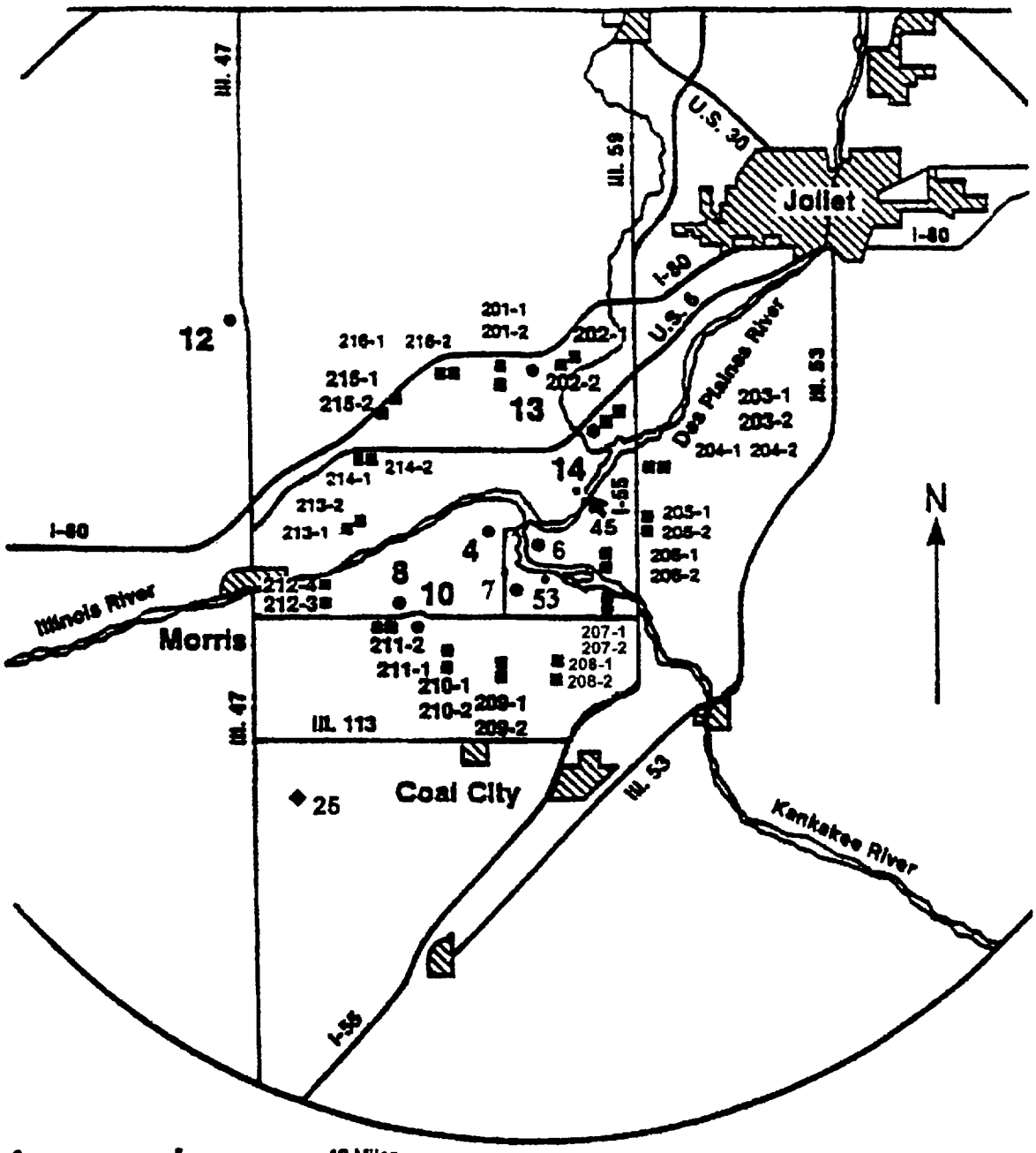
CRITICAL ORGANS: BN=BONE, LV=LIVER, TB=TOTAL BODY, TH=THYROID, KD=KIDNEY, LN=LUNG, GI=GI-LLI
CRITICAL PERSON: AD=ADULT, TA=TEENAGER, CH=CHILD, IN=INFANT

Date of calculation: 4/16/2001

Maximum Offsite Values (pCi/m3)	
Iodine	9.10E-04
Particulate Matter	2.98E-04
Data Recovery (priority parameters)	99.6%

Figure 5.0-1

DRESDEN



• Air Sampling Location

■ TLD Location

◆ Milk

Dresden Station Units 1,2 & 3	
Fixed Air Sampling and TLD Sites, Outer Ring TLD Locations and Milk Location	
D-01 Onsite Station 1	D-12 (C) Lisbon
D-02 Onsite Station 2	D-13 Minooka
D-03 Onsite Station 3	D-14 Channahon
D-04 Collins Road	D-45 McKinley Woods
D-07 Clay Products	D-53 Grundy County Road
D-08 Prairie Parks	D-25 Biros Farm (Milk)
D-10 Goose Lake Village	

Figure 5.0-2

DRESDEN

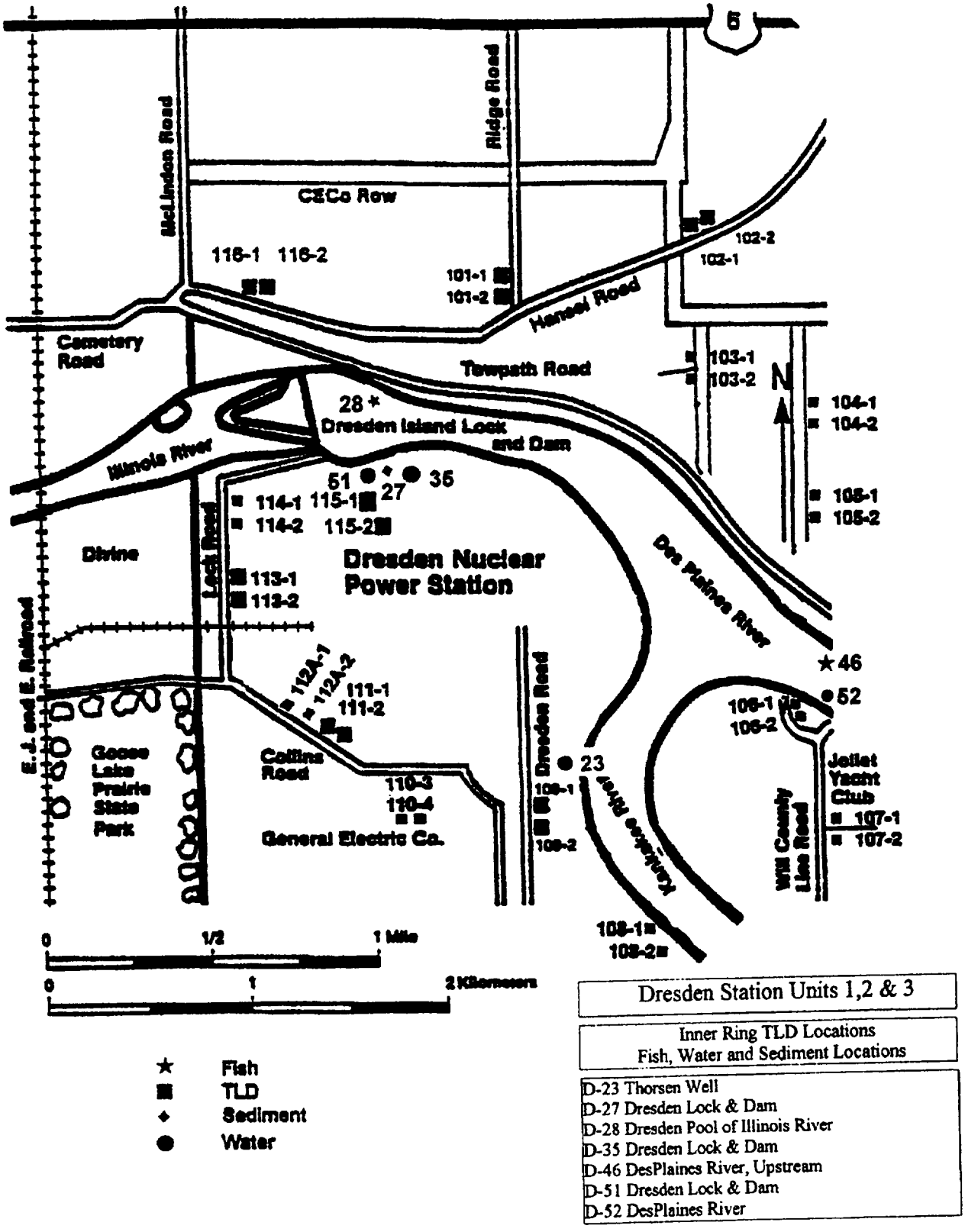


TABLE 5.0-1

Dresden Station Radiological Environmental Monitoring Locations	Air Sampling	TLD	Vegetables	Fish	Milk	Sediments	Surface Water	Well Water
D-01 Onsite Station 1	✓	✓						
D-02 Onsite Station 2	✓	✓						
D-03 Onsite Station 3	✓	✓						
D-04 Collins Road	✓	✓						
D-07 Clay Products	✓	✓						
D-08 Prairie Parks	✓	✓						
D-10 Goose Lake Village	✓	✓						
D-12 Lisbon	✓	✓						
D-13 Minooka	✓	✓						
D-14 Channahon	✓	✓						
D-23 Thorsen Well								✓
D-25 Vince Biros Farm					✓			
D-27 Dresden Lock & Dam						✓		
D-28 Dresden Pool at Illinois River				✓				
D-35 Dresden Lock & Dam								✓
D-46 DesPlaines River, Upstream				✓				
D-45 McKinley Woods Road	✓	✓						
D-51 Dresden Lock & Dam							✓	
D-52 DesPlaines River.							✓	
D-53 Grundy County Road	✓	✓						
D-Quad 1			✓					
D-Quad 2			✓					
D-Quad 3			✓					
D-Quad 4			✓					
D-Control			✓					

CENSUS
Dairy
Residence
Cattle

TABLE 5.0-2

DRESDEN STATION

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM, SAMPLING LOCATIONS

1. AIR SAMPLERS

Site Code[a]	Location	Distance (miles)	Direction	Sector
D-01	Onsite Station 1	0.6	NW	Q
D-02	Onsite Station 2	0.3	NE	C
D-03	Onsite Station 3	0.4	S	J
D-04	Collins Road	0.9	W	N
D-07	Clay Products	2.0	S	J
D-08	Prairie Parks	4.0	SW	L
D-10	Goose Lake Village	3.8	SSW	K
D-12 (C)	Lisbon	10.0	NW	Q
D-13	Minooka	4.5	N	A
D-14	Channahon	3.5	NE	C
D-45	McKinley Woods Road	1.5	ENE	D
D-53	Grundy County Road	2.1	SSE	H

2. TLDs

a. Same as No. 1.

b. Special TLD Locations

Site Code	Distance (miles)	Direction	Sector
Inner Ring			
D-101-1,2	1.0	N	A
D-102-1,2	1.3	NNE	B
D-103-1,2	1.2	NE	C
D-104-1,2	1.5	ENE	D
D-105-1,2	1.4	E	E
D-106-1,2	0.9	ESE	F
D-107-1,2	1.3	SE	G
D-108-1,2	1.9	SSE	H
D-109-1,2	0.8	S	J
D-110-3,4	0.8	SSW	K
D-111-1,2	0.6	SW	L

[a] Control (reference) locations are denoted by a "C" after site code. All other locations are indicators.

TABLE 5.0-2 (continued)

DRESDEN STATION

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM, SAMPLING LOCATIONS

2. TLDs

b. Special TLD Locations (continued)

Site Code	Distance (miles)	Direction	Sector
Inner Ring (continued)			
D-112a-1,2	0.8	WSW	M
D-113-1,2	0.9	W	N
D-114-1,2	1.0	WNW	P
D-115-1,2	0.8	NW	Q
D-116-1,2	1.0	NNW	R
Outer Ring			
D-201-1,2	4.5	N	A
D-202-1,2	5.0	NNE	B
D-203-1,2	4.5	NE	C
D-204-1,2	5.0	ENE	D
D-205-1,2	4.2	E	E
D-206-1,2	3.5	ESE	F
D-207-1,2	4.5	SE	G
D-208-1,2	5.0	SSE	H
D-209-1,2	5.0	S	J
D-210-1,2	4.8	SSW	K
D-211-1,2	5.0	SW	L
D-212-3,4	6.0	WSW	M
D-213-1,2	4.5	W	N
D-214-1,2	4.5	WNW	P
D-215-1,2	5.1	NW	Q
D-216-1,2	4.8	NNW	R

3. MILK

Site Code[a]	Location	Distance (miles)	Direction	Sector
D-25 (C)	Vince Biros Farm	11.5	SW	L

a Control (reference) locations are denoted by a "C" after site code. All other locations are indicators.

TABLE 5.0-2 (continued)

DRESDEN STATION

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM, SAMPLING LOCATIONS

4. GROUND/WELL WATER

Site Code[a]	Location	Distance (miles)	Direction	Sector
D-23	Thorsen Well	0.7	S	J
D-35	Dresden Lock & Dam	0.5	NW	Q

5. SURFACE WATER

Site Code	Location	Distance (miles)	Direction	Sector
D-51	Dresden Lock & Dam	0.5	NW	Q
D-52 (C)	DesPlaines River	0.9	ESE	F

6. FISH

Site Code	Location	Distance (miles)	Direction	Sector
D-28	Dresden Pool of Illinois River	0.5	NW	Q
DSP-46(C)	DesPlaines River, Upstream	0.9	E	E

7. SEDIMENT

Site Code	Location	Distance (miles)	Direction	Sector
D-27	Dresden Lock & Dam	0.5	NW	Q

8. VEGETATION

Site Code	Location	Distance (miles)	Direction	Sector
Quad 1	Chris Locknar	2.8	NE	C
Quad 2	Robert Pagliano	3.2	SSE	H
Quad 3	Jim Bloom	3.9	SSW	K
Quad 4	J.D.Carmichael	1.6	NNW	R
Control (C)	Glasscock Farm	12.8	ENE	D

[a] Control (reference) locations are denoted by a "C" after site code. All other locations are indicators.

TABLE 5.0-2 (continued)

DRESDEN STATION
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM, SAMPLE COLLECTION AND ANALYSES

Sample Media	Location Code[a]	Location Site	Collection Frequency	Type of Analysis	Frequency of Analysis
1. Airborne Particulates	Onsite, Nearfield and Control		Filter exchange weekly	Gross Beta Gamma Isot.	Weekly Quarterly Composite (or if weekly gross beta in a sample exceeds 5X the average concentration of preceding calendar quarter).
	D-01	Onsite 1			
	D-02	Onsite 2			
	D-03	Onsite 3			
	D-04	Collins Road			
	D-07	Clay Products			
	D-12 (C)	Lisbon			
	D-45	McKinley Woods Road			
	D-53	Grundy County Road			
	Far Field			Gamma Isot.	If gross beta in a sample exceeds 10 times the yearly mean of control samples and radioactivity is confirmed as having its origins in airborne effluents released from the station.
	D-08	Prairie Parks			
	D-10	Goose Lake Village			
	D-13	Minooka			
	D-14	Channahon			
2. Airborne Iodine	Same as 1.		Canister exchange biweekly	I-131	Biweekly
3. Air Sampling Train	Same as 1.		-	Test and Maintenance	Weekly
4. TLDs	a. Same as 1. (two TLDs per location)		Quarterly	Gamma	Quarterly
	b. D-101-1,2	Inner Ring			
	102-1,2				
	103-1,2				
	104-1,2				
	105-1,2				
	106-1,2				
	107-1,2				
	108-1,2				
	109-1,2				
	110-3,4				
	111-1,2				
	112a-1,2				
	113-1,2				
	114-1,2				
	115-1,2				
	116-1,2				
	c. D-201-1,2	Outer Ring			
	202-1,2				
	203-1,2				
	204-1,2				
	205-1,2				
	206-1,2				
	207-1,2				

[a] Control (background) locations are denoted by a "C" in this column. All other location are indicators.

TABLE 5.0-2 (continued)

DRESDEN STATION
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM, SAMPLE COLLECTION AND ANALYSES

Sample Media	Location Code[a]	Location Site	Collection Frequency	Type of Analysis	Frequency of Analysis
4. TLDs (continued)					
	D-208-1,2	Outer Ring	Quarterly	Gamma	Quarterly
	209-1,2				
	210-1,2				
	211-1,2				
	212-3,4				
	213-1,2				
	214-1,2				
	215-1,2				
	216-1,2				
5. Milk	D-25	Biros Farm	Biweekly: May-October Monthly: November-April	I-131 Gamma Isot.	Biweekly: May-October Monthly: November-April
6. Vegetables	Quad 1	Chris Locknar	Annually - two varieties from each location as available at harvest.	Gamma Isot. I-131	Annually Annually, on broad leaf vegetation.
	Quad 2	Robert Pagliano			
	Quad 3	Jim Bloom			
	Quad 4	Robyn Willis			
	Control	Glasscock Farm			
7. Ground/Well Water	D-23	Thorsen Well	Quarterly	Gamma Isot. Tritium	Quarterly
	D-35	Dresden Lock & Dam			
8. Surface Water	D-51	Dresden Lock & Dam	Weekly	Gross Beta Gamma Isot. Tritium	Monthly composite. Monthly composite. Quarterly composite.
	D-52 (C)	DesPlaines River, Upstream			
9. Fish (at least two species)	D-28	Dresden Pool of Illinois River	Two times/year	Gamma Isot.	Two times/year on edible portions only.
	D-46 (C)	DesPlaines River, Upstream			
10. Sediments	D-27	Dresden Lock & Dam	Semiannually	Gamma Isot.	Semiannually
11. Land Use Census					
	Milch Animals				
	a. Site Boundary to 2 miles		-	a. Enumeration by a door to door or equivalent counting technique.	Annually during grazing season.
	b. 2 miles to 6.2 miles		-	b. Using referenced information from county agricultural agents or other reliable sources.	

[a] Control (background) locations are denoted by a "C" in this column. All other location are indicators.

TABLE 5.0-2 (continued)

DRESDEN STATION
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM, SAMPLE COLLECTION AND ANALYSES

Sample Media	Location Code[a]	Location Site	Collection Frequency	Type of Analysis	Frequency of Analysis
11. Land Use Census (continued)					
	c.	At dairies listed in Item 5.	-	c. Inquire as to feeding practices: 1. Pasture only. 2. Feed and chop only. 3. Pasture and feed: if both, ask farmer to estimate fraction of food from pasture: <25%, 25-50%, 50-75%, or >75%.	Annually during grazing season.
Nearest Residence		In all sectors up to 6.2 miles.	-	-	Annually during grazing season.

[a] Control (background) locations are denoted by a "C" in this column. All other location are indicators.

Table 5.0-3

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM QUARTERLY SUMMARY

Name of Facility: Dresden Nuclear Power Station
Location of Facility: Grundy, Illinois
(County, State)

Docket No. 50-10, 50-237, 50-249
Reporting Period: 1st Quarter 2000

Sample Type (Units)	Type and Number of Analyses		LLD	Indicator Locations Mean[a] Range	Location with Highest Quarterly Mean	Highest Mean[a] Range	Control Locations Mean[a] Range	Number of Non-routine Results
Air Particulates (pCi/m^3)	Gross Beta	104	0.01	0.029 (91/91) (0.012-0.051)	D-02[b], Onsite Station 2 0.3 mi. NE, Sector C	0.031 (13/13) (0.015-0.048)	0.029 (13/13) (0.015-0.047)	0
	Gamma Spec.	8						
	Cs-134		0.01	<LLD	-	-	<LLD	0
	Cs-137		0.01	<LLD	-	-	<LLD	0
	Other Gammas		0.01-0.04	<LLD	-	-	<LLD	0
Airborne Iodine (pCi/m^3)	I-131	56	0.07	<LLD	-	-	<LLD	0
Milk (pCi/L)	I-131	3	5	<LLD	-	-	<LLD	0
	Gamma Spec.	3						
	Cs-134		15	<LLD	-	-	<LLD	0
	Cs-137		18	<LLD	-	-	<LLD	0
	Ba/La-140		15	<LLD	-	-	<LLD	0
	Other Gammas		15-30	<LLD	-	-	<LLD	0
Surface Water (pCi/L)	Gross Beta	6	4	5.4 (3/3) (4.4-6.2)	D-52, DesPlaines River 0.9 mi. ESE, Sector F	8.4 (3/3) (6.9-9.6)	8.4 (3/3) (6.9-9.6)	0
	Gamma Spec.	6						
	Cs-134		15	<LLD	-	-	<LLD	0
	Cs-137		18	<LLD	-	-	<LLD	0
	Other ODCM-Required Gammas		15-30	<LLD	-	-	<LLD	0
	Tritium	2	200	933 (1/1)	D-51, Dresden Lock & Dam 0.5 mi. NW, Sector Q	933 (1/1)	<LLD	1
Well Water (pCi/L)	Tritium	2	200	299 (1/2)	D-23, Thorsen Well 0.7 mi. S, Sector J	299 (1/2)	None	0
	Gamma Spec.	2						
	Cs-134		15	<LLD	-	-	None	0
	Cs-137		18	<LLD	-	-	None	0
	Other ODCM-Required Gammas		15-30	<LLD	-	-	None	0
Gamma Background (TLDs) (mR/Qtr.)	Gamma Dose	88	9.7	17.2 (86/86) (13.6-21.5)	D-110-4 0.8 mi. SSW, Sector K	21.5 (1/1)	14.3 (2/2) (13.7-14.8)	0

[a] Mean and range based on detectable measurements only. Fractions indicated in parentheses.
[b] Locations D-02 and D-04 had identical means of 0.031 pCi/m^3. Only D-02 is detailed in this summary.

Table 5.0-4

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM QUARTERLY SUMMARY

Name of Facility: Dresden Nuclear Power Station — Docket No. 50-10, 50-237, 50-249

Location of Facility: Grundy, Illinois (County, State) — Reporting Period: 2nd Quarter 2000

Sample Type (Units)	Type and Number of Analyses		LLD	Indicator Locations Mean[a] Range	Location with Highest Quarterly Mean	Highest Mean[a] Range	Control Locations Mean[a] Range	Number of Non-routine Results
Air Particulates (pCi/m^3)	Gross Beta	104	0.01	0.019 (91/91) (0.011-0.031)	D-07, Clay Products 2.0 mi. S, Sector J	0.022 (13/13) (0.015-0.031)	0.020 (13/13) (0.013-0.026)	0
	Gamma Spec.	8						
	Cs-134		0.01	<LLD	-	-	<LLD	0
	Cs-137		0.01	<LLD	-	-	<LLD	0
	Other Gammas		0.01-0.04	<LLD	-	-	<LLD	0
Airborne Iodine (pCi/m^3)	I-131	48	0.07	<LLD	-	-	<LLD	0
Milk (pCi/L)	I-131	6	0.5/5.0[b]	<LLD	-	-	<LLD	0
	Gamma Spec.	6						
	Cs-134		15	<LLD	-	-	<LLD	0
	Cs-137		18	<LLD	-	-	<LLD	0
	Ba/La-140		15	<LLD	-	-	<LLD	0
	Other Gammas		15-30	<LLD	-	-	<LLD	0
Fish (pCi/g wet)	Gamma Spec.	8						
	Cs-134		0.10	<LLD	-	-	<LLD	0
	Cs-137		0.10	<LLD	-	-	<LLD	0
	Other ODCM-Required Gammas		0.13-0.26	<LLD	-	-	<LLD	0
	Other Gammas		0.20-0.30	<LLD	-	-	<LLD	0
Sediments (pCi/g wet)	Gamma Spec.	1						
	Cs-134		0.15	<LLD	-	-	None	0
	Cs-137		0.18	<LLD	-	-	None	0
	Other Gammas		0.10-0.60	<LLD	-	-	None	0
Surface Water (pCi/L)	Gross Beta	6	4	5.7 (3/3) (4.7-6.6)	D-52, DesPlaines River 0.9 mi. ESE, Sector F	6.9 (3/3) (6.8-6.9)	6.9 (3/3) (6.8-6.9)	0
	Gamma Spec.	6						
	Cs-134		15	<LLD	-	-	<LLD	0
	Cs-137		18	<LLD	-	-	<LLD	0
	Other ODCM-Required Gammas		15-30	<LLD	-	-	<LLD	0
	Tritium	2	200	548 (1/1)	D-51, Dresden Lock & Dam 0.5 mi. NW, Sector Q	548 (1/1)	<LLD	0

[a] Mean and range based on detectable measurements only. Fractions indicated in parentheses.

[b] 0.5 pCi/L (May-October; 5.0 pCi/L (November-April).

Table 5.0-4 (continued)

Name of Facility: Dresden Nuclear Power Station
Location of Facility: Grundy, Illinois
(County, State)

Docket No. 50-10, 50-237, 50-249
Reporting Period: 2nd Quarter 2000

Sample Type (Units)	Type and Number of Analyses		LLD	Indicator Locations Mean[a] Range	Location with Highest Quarterly Mean	Highest Mean[a] Range	Control Locations Mean[a] Range	Number of Non-routine Results
Well Water (pCi/L)	Tritium	2	200	448 (1/2)	D-23, Thorsen Well 0.7 mi. S, Sector J	448 (1/2)	None	0
	Gamma Spec.	2						
	Cs-134		15	<LLD	-	-	None	0
	Cs-137		18	<LLD	-	-	None	0
	Other ODCM-Required Gammas		15-30	<LLD	-	-	None	0
Gamma Background (TLDs) (mR/Qtr.)	Gamma Dose	88	9.7	17.2 (86/86) (13.5-22.3)	D-214-1 4.5 mi. WNW, Sector P	22.3 (1/1)	14.9 (2/2) (14.2-15.5)	0

[a] Mean and range based on detectable measurements only. Fractions indicated in parentheses.

Table 5.0-5

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM QUARTERLY SUMMARY

Name of Facility: Dresden Nuclear Power Station — Docket No. 50-10, 50-237, 50-249

Location of Facility: Grundy, Illinois (County, State) — Reporting Period: 3rd Quarter 2000

Sample Type (Units)	Type and Number of Analyses		LLD	Indicator Locations Mean[a] Range	Location with Highest Quarterly Mean	Highest Mean[a] Range	Control Locations Mean[a] Range	Number of Non-routine Results
Air Particulates (pCi/m^3)	Gross Beta	104	0.01	0.023 (91/91) (0.013-0.042)	D-02, Onsite Station 2 0.3 mi. NE, Sector C	0.025 (13/13) (0.017-0.040)	0.023 (13/13) (0.017-0.040)	0
	Gamma Spec.	8						
	Cs-134		0.01	<LLD	-	-	<LLD	0
	Cs-137		0.01	<LLD	-	-	<LLD	0
	Other Gammas		0.01-0.04	<LLD	-	-	<LLD	0
Airborne Iodine (pCi/m^3)	I-131	56	0.07	<LLD	-	-	<LLD	0
Milk (pCi/L)	I-131	6	0.5	None	-	-	<LLD	0
	Gamma Spec.	6						
	Cs-134		15	None	-	-	<LLD	0
	Cs-137		18	None	-	-	<LLD	0
	Ba/La-140		15	None	-	-	<LLD	0
	Other Gammas		15-30	None	-	-	<LLD	0
Vegetation (pCi/g wet)	I-131	5	0.06	<LLD	-		<LLD	0
	Gamma Spec.	11						
	Cs-134		0.06	<LLD	-	-	<LLD	0
	Cs-137		0.08	<LLD	-	-	<LLD	0
	Other Gammas		0.01-0.10	<LLD	-	-	<LLD	0
Surface Water (pCi/L)	Gross Beta	6	4	5.6 (3/3) (5.0-6.3)	D-51, Dresden Lock & Dam 0.5 mi. NW, Sector Q	5.6 (3/3) (5.0-6.3)	5.5 (3/3) (4.5-6.0)	0
	Gamma Spec.	6						
	Cs-134		15	<LLD	-	-	<LLD	0
	Cs-137		18	<LLD	-	-	<LLD	0
	Other ODCM-Required Gammas		15-30	<LLD	-	-	<LLD	0
	Tritium	2	200	462 (1/1)	D-51, Dresden Lock & Dam 0.5 mi. NW, Sector Q	462 (1/1)	<LLD	0
Well Water (pCi/L)	Tritium	2	200	587 (1/2)	D-23, Thorsen Well 0.7 mi. S, Sector J	587 (1/2)	None	0
	Gamma Spec.	2						
	Cs-134		15	<LLD	-	-	None	0
	Cs-137		18	<LLD	-	-	None	0
	Other ODCM-Required Gammas		15-30	<LLD	-	-	None	0

[a] Mean and range based on detectable measurements only. Fractions indicated in parentheses.

Table 5.0-5 (continued)

Name of Facility: Dresden Nuclear Power Station
Location of Facility: Grundy, Illinois
(County, State)

Docket No. 50-10, 50-237, 50-249
Reporting Period: 3rd Quarter 2000

Sample Type (Units)	Type and Number of Analyses		LLD	Indicator Locations Mean[a] Range	Location with Highest Quarterly Mean	Highest Mean[a] Range	Control Locations Mean[a] Range	Number of Non-routine Results
Gamma Background (TLDs) (mR/Qtr.)	Gamma Dose	88	9.7	16.4 (86/86) (13.3-20.8)	D-201-1 4.5 mi. N, Sector A	20.8 (1/1)	13.8 (2/2) (13.1-14.5)	0

[a] Mean and range based on detectable measurements only. Fractions indicated in parentheses.

Table 5.0-6

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM QUARTERLY SUMMARY

Name of Facility: Dresden Nuclear Power Station — Docket No. 50-10, 50-237, 50-249

Location of Facility: Grundy, Illinois (County, State) — Reporting Period: 4th Quarter 2000

Sample Type (Units)	Type and Number of Analyses		LLD	Indicator Locations Mean[a] Range	Location with Highest Quarterly Mean	Highest Mean[a] Range	Control Locations Mean[a] Range	Number of Non-routine Results
Air Particulates (pCi/m^3)	Gross Beta	104	0.01	0.033 (91/91) (0.018-0.062)	D-04[b], Collins Road 0.9 mi. W, Sector N	0.035 (13/13) (0.020-0.057)	0.034 (13/13) (0.019-0.050)	0
	Gamma Spec.	8						
	Cs-134		0.01	<LLD	-	-	<LLD	0
	Cs-137		0.01	<LLD	-	-	<LLD	0
	Other Gammas		0.01-0.04	<LLD	-	-	<LLD	0
Airborne Iodine (pCi/m^3)	I-131	48	0.07	<LLD	-	-	<LLD	0
Milk (pCi/L)	I-131	4	0.5/5.0[c]	<LLD	-	-	<LLD	0
	Gamma Spec.	4						
	Cs-134		15	<LLD	-	-	<LLD	0
	Cs-137		18	<LLD	-	-	<LLD	0
	Ba/La-140		15	<LLD	-	-	<LLD	0
	Other Gammas		15-30	<LLD	-	-	<LLD	0
Fish (pCi/g wet)	Gamma Spec.	9						
	Cs-134		0.10	<LLD	-	-	<LLD	0
	Cs-137		0.10	<LLD	-	-	<LLD	0
	Other ODCM-Required Gammas		0.13-0.26	<LLD	-	-	<LLD	0
	Other Gammas		0.20-0.30	<LLD	-	-	<LLD	0
Sediments (pCi/g wet)	Gamma Spec.	1						
	Cs-134		0.15	<LLD	-	-	None	0
	Cs-137		0.18	<LLD	-	-	None	0
	Other Gammas		0.10-0.60	<LLD	-	-	None	0
Surface Water (pCi/L)	Gross Beta	6	4	6.4 (3/3) (5.2-7.1)	D-52, DesPlaines River 0.9 mi. ESE, Sector F	6.8 (3/3) (6.4-7.0)	6.8 (3/3) (6.4-7.0)	0
	Gamma Spec.	6						
	Cs-134		15	<LLD	-	-	<LLD	0
	Cs-137		18	<LLD	-	-	<LLD	0
	Other ODCM-Required Gammas		15-30	<LLD	-	-	<LLD	0
	Tritium	2	200	434 (1/1)	D-51, Dresden Lock & Dam, 0.5 mi. NW, Sector Q	434 (1/1)	<LLD	1

[a] Mean and range based on detectable measurements only. Fractions indicated in parentheses.

Table 5.0-6 (continued)

Name of Facility: Dresden Nuclear Power Station
Location of Facility: Grundy, Illinois
(County, State)

Docket No. 50-10, 50-237, 50-249
Reporting Period: 4th Quarter 2000

Sample Type (Units)	Type and Number of Analyses		LLD	Indicator Locations Mean* Range	Location with Highest Quarterly Mean	Highest Mean* Range	Control Locations Mean* Range	Number of Non-routine Results
Well Water (pCi/L)	Tritium	5	200	472 (1/2)	D-23, Thorsen Well 0.7 mi. S, Sector J	472 (1/2)	None	0
	Gamma Spec.	5						
	Cs-134		15	<LLD	-	-	None	0
	Cs-137		18	<LLD	-	-	None	0
	Other ODCM-Required Gammas		15-30	<LLD	-	-	None	0
Gamma Background (TLDs) (mR/Qtr.)	Gamma Dose	88	9.7	17.3 (86/86) (13.6-21.5)	D-216-2 4.8 mi. NNW, Sector R	21.5 (1/1)	14.6 (2/2) (14.4-14.9)	0

* Mean and range based on detectable measurements only. Fractions indicated in parentheses.

DRESDEN

APPENDIX II

METEOROLOGICAL DATA

DRESDEN NUCLEAR POWER STATION

PERIOD OF RECORD: JANUARY-MARCH 2000

STABILITY CLASS - EXTREMELY UNSTABLE (DIFF TEMP 300-35 FT)
WINDS MEASURED AT 300 FEET

WIND SPEED (in mph)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	0	1	0	0	0	0	1
NNE	0	0	0	0	5	0	5
NE	0	0	0	0	1	0	1
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	1	0	0	1
SSE	0	0	0	0	0	0	0
S	0	0	0	1	0	0	1
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	0	2	1	3
WNW	0	0	2	1	5	2	10
NW	0	0	0	0	0	0	0
NNW	0	0	0	2	0	0	2
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	1	2	5	13	3	24

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 7

DRESDEN NUCLEAR POWER STATION

PERIOD OF RECORD: JANUARY-MARCH 2000

STABILITY CLASS - MODERATELY UNSTABLE (DIFF TEMP 300-35 FT)
WINDS MEASURED AT 300 FEET

WIND SPEED (in mph)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	1	1	0	1	0	0	3
NNE	0	0	1	0	1	0	2
NE	0	1	3	0	0	0	4
ENE	0	0	2	0	0	0	2
E	0	0	0	0	0	0	0
ESE	0	0	0	1	0	0	1
SE	0	0	0	3	0	0	3
SSE	0	0	0	0	0	0	0
S	0	0	0	2	0	2	4
SSW	0	0	0	0	1	0	1
SW	0	0	0	2	1	0	3
WSW	0	0	0	3	0	0	3
W	0	1	0	1	3	1	6
WNW	0	1	2	4	6	2	15
NW	0	1	6	1	1	0	9
NNW	0	0	3	1	1	0	5
VARIABLE	0	0	0	0	0	0	0
TOTAL	1	5	17	19	14	5	61

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 7

DRESDEN NUCLEAR POWER STATION

PERIOD OF RECORD: JANUARY-MARCH 2000

STABILITY CLASS - SLIGHTLY UNSTABLE (DIFF TEMP 300-35 FT)
WINDS MEASURED AT 300 FEET

WIND SPEED (in mph)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	0	1	3	4	2	0	10
NNE	0	0	1	4	5	0	10
NE	0	2	0	0	1	0	3
ENE	0	1	1	0	0	0	2
E	0	0	1	0	0	0	1
ESE	0	0	1	1	0	0	2
SE	0	0	3	2	0	0	5
SSE	0	0	1	0	0	0	1
S	0	0	0	2	0	6	8
SSW	0	1	1	2	2	1	7
SW	0	1	2	3	3	0	9
WSW	0	0	4	7	0	3	14
W	0	2	1	1	4	0	8
WNW	0	0	2	1	5	0	8
NW	0	0	4	1	3	2	10
NNW	0	0	1	1	3	0	5
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	8	26	29	28	12	103

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 7

DRESDEN NUCLEAR POWER STATION

PERIOD OF RECORD: JANUARY-MARCH 2000

STABILITY CLASS - NEUTRAL (DIFF TEMP 300-35 FT)
WINDS MEASURED AT 300 FEET

WIND SPEED (in mph)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	1	5	10	16	5	0	37
NNE	1	7	12	29	18	2	69
NE	0	5	22	16	4	1	48
ENE	0	8	39	20	0	0	67
E	1	3	23	36	13	0	76
ESE	2	7	15	21	12	0	57
SE	3	6	16	7	1	0	33
SSE	1	11	10	9	24	14	69
S	0	23	31	24	23	27	128
SSW	1	9	9	26	19	8	72
SW	0	8	10	12	10	3	43
WSW	0	10	5	18	7	6	46
W	1	13	17	25	24	13	93
WNW	0	0	11	34	39	7	91
NW	0	4	13	20	25	6	68
NNW	0	4	10	26	26	5	71
VARIABLE	0	0	0	0	0	0	0
TOTAL	11	123	253	339	250	92	1068

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 7

DRESDEN NUCLEAR POWER STATION

PERIOD OF RECORD: JANUARY-MARCH 2000

STABILITY CLASS - SLIGHTLY STABLE (DIFF TEMP 300-35 FT)
WINDS MEASURED AT 300 FEET

WIND SPEED (in mph)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	1	2	5	10	4	0	22
NNE	0	3	6	3	0	0	12
NE	1	4	6	1	0	0	12
ENE	1	10	10	0	0	0	21
E	2	1	13	15	1	0	32
ESE	0	3	5	13	2	0	23
SE	1	5	9	11	5	0	31
SSE	0	5	7	8	20	6	46
S	1	1	5	38	33	8	86
SSW	0	4	9	44	20	4	81
SW	1	4	7	19	8	3	42
WSW	1	5	3	9	14	7	39
W	0	2	4	39	12	2	59
WNW	3	3	5	21	17	0	49
NW	0	2	4	22	10	0	38
NNW	0	1	4	9	10	0	24
VARIABLE	0	0	0	0	0	0	0
TOTAL	12	55	102	262	156	30	617

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 7

DRESDEN NUCLEAR POWER STATION

PERIOD OF RECORD: JANUARY-MARCH 2000

STABILITY CLASS - MODERATELY STABLE (DIFF TEMP 300-35 FT)
WINDS MEASURED AT 300 FEET

WIND SPEED (in mph)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	1	0	3	5	6	0	15
NNE	0	4	4	3	0	0	11
NE	1	2	3	0	0	0	6
ENE	1	0	0	0	0	0	1
E	1	1	2	0	0	0	4
ESE	0	2	0	0	1	0	3
SE	2	3	5	5	3	0	18
SSE	3	0	4	0	0	0	7
S	2	2	5	0	0	0	9
SSW	2	1	3	5	9	0	20
SW	2	2	8	15	2	0	29
WSW	0	3	2	16	5	0	26
W	1	2	9	15	0	0	27
WNW	1	4	4	13	2	0	24
NW	0	4	6	18	1	0	29
NNW	4	3	2	10	5	0	24
VARIABLE	0	0	0	0	0	0	0
TOTAL	21	33	60	105	34	0	253

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 1
Hours of missing stability measurements in all stability classes: 7

DRESDEN NUCLEAR POWER STATION

PERIOD OF RECORD: JANUARY-MARCH 2000

STABILITY CLASS - EXTREMELY STABLE (DIFF TEMP 300-35 FT)
WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	1	1	1	0	0	3
ESE	0	1	0	0	2	0	3
SE	1	0	0	0	0	0	1
SSE	0	2	0	0	0	0	2
S	1	2	1	1	0	0	5
SSW	3	0	1	1	3	0	8
SW	1	0	0	3	0	0	4
WSW	0	0	0	0	0	0	0
W	0	0	0	2	0	0	2
WNW	0	0	3	2	0	0	5
NW	1	0	4	5	0	0	10
NNW	0	0	0	0	1	0	1
VARIABLE	0	0	0	0	0	0	0
TOTAL	7	6	10	15	6	0	44

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 6
Hours of missing stability measurements in all stability classes: 7

DRESDEN NUCLEAR POWER STATION

PERIOD OF RECORD: APRIL-JUNE 2000

STABILITY CLASS - EXTREMELY UNSTABLE (DIFF TEMP 300-35 FT)
WINDS MEASURED AT 300 FEET

WIND SPEED (in mph)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	0	0	2	0	0	0	2
NNE	0	3	2	6	1	0	12
NE	0	1	1	1	7	0	10
ENE	0	0	0	3	0	0	3
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	1	0	0	1
SW	0	0	0	3	0	0	3
WSW	0	0	0	2	0	0	2
W	0	0	0	0	0	0	0
WNW	0	0	0	0	5	0	5
NW	0	0	0	1	0	0	1
NNW	0	0	2	3	2	0	7
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	4	7	20	15	0	46

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 2

DRESDEN NUCLEAR POWER STATION

PERIOD OF RECORD: APRIL-JUNE 2000

STABILITY CLASS - MODERATELY UNSTABLE (DIFF TEMP 300-35 FT)
WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	0	1	2	0	0	0	3
NNE	0	1	3	0	1	0	5
NE	0	4	6	1	0	1	12
ENE	0	0	2	0	0	0	2
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	1	0	0	1
SSE	0	0	0	0	0	1	1
S	0	0	0	2	2	0	4
SSW	0	0	0	6	0	0	6
SW	0	0	1	1	0	0	2
WSW	0	0	2	0	6	0	8
W	0	0	0	0	2	1	3
WNW	0	0	1	2	6	1	10
NW	0	0	0	2	2	0	4
NNW	0	0	3	3	2	0	8
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	6	20	18	21	4	69

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 1
Hours of missing stability measurements in all stability classes: 2

DRESDEN NUCLEAR POWER STATION

PERIOD OF RECORD: APRIL-JUNE 2000

STABILITY CLASS - SLIGHTLY UNSTABLE (DIFF TEMP 300-35 FT)
WINDS MEASURED AT 300 FEET

WIND SPEED (in mph)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	0	1	1	0	0	0	2
NNE	0	4	3	2	0	0	9
NE	0	5	4	1	1	0	11
ENE	0	2	2	0	0	0	4
E	1	1	2	0	0	0	4
ESE	0	0	1	0	0	0	1
SE	0	0	1	0	0	0	1
SSE	0	1	1	5	1	1	9
S	0	0	0	3	2	2	7
SSW	0	1	0	1	7	0	9
SW	0	0	2	4	3	3	12
WSW	0	0	0	7	3	0	10
W	0	3	0	4	1	2	10
WNW	0	2	1	7	4	5	19
NW	0	0	1	5	4	0	10
NNW	0	2	3	2	1	1	9
VARIABLE	0	0	0	0	0	0	0
TOTAL	1	22	22	41	27	14	127

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 2
Hours of missing stability measurements in all stability classes: 2

DRESDEN NUCLEAR POWER STATION

PERIOD OF RECORD: APRIL-JUNE 2000

STABILITY CLASS - NEUTRAL (DIFF TEMP 300-35 FT)
WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	1	13	16	15	10	13	68
NNE	1	4	16	19	20	5	65
NE	3	11	17	20	7	0	58
ENE	1	15	50	7	0	0	73
E	2	11	31	16	1	0	61
ESE	3	7	12	11	13	6	52
SE	0	13	5	7	2	0	27
SSE	1	8	13	25	11	0	58
S	1	15	21	20	17	4	78
SSW	4	11	24	27	27	4	97
SW	1	8	26	23	19	5	82
WSW	1	5	18	14	5	3	46
W	4	15	11	12	8	1	51
WNW	1	6	8	17	15	13	60
NW	3	15	5	13	16	3	55
NNW	2	11	10	14	11	5	53
VARIABLE	0	0	0	0	0	0	0
TOTAL	29	168	283	260	182	62	984

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 26
Hours of missing stability measurements in all stability classes: 2

DRESDEN NUCLEAR POWER STATION

PERIOD OF RECORD: APRIL-JUNE 2000

STABILITY CLASS - SLIGHTLY STABLE (DIFF TEMP 300-35 FT)
WINDS MEASURED AT 300 FEET

WIND SPEED (in mph)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	1	4	9	6	1	0	21
NNE	0	3	10	6	3	1	23
NE	0	3	9	17	3	0	32
ENE	1	19	12	2	0	0	34
E	0	5	13	9	1	0	28
ESE	0	2	8	16	1	0	27
SE	1	1	9	11	1	2	25
SSE	1	7	12	26	2	1	49
S	0	6	15	36	24	4	85
SSW	1	2	9	51	33	5	101
SW	0	5	6	25	34	2	72
WSW	0	1	5	18	13	1	38
W	0	1	19	10	2	5	37
WNW	1	1	4	15	7	3	31
NW	0	1	7	20	5	0	33
NNW	0	1	3	5	1	1	11
VARIABLE	0	0	0	0	0	0	0
TOTAL	6	62	150	273	131	25	647

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 19
Hours of missing stability measurements in all stability classes: 2

DRESDEN NUCLEAR POWER STATION

PERIOD OF RECORD: APRIL-JUNE 2000

STABILITY CLASS - MODERATELY STABLE (DIFF TEMP 300-35 FT)
WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	0	0	3	6	1	0	10
NNE	0	0	8	4	0	0	12
NE	2	1	3	1	1	0	8
ENE	0	2	1	1	0	0	4
E	1	5	0	0	0	0	6
ESE	1	1	1	5	0	0	8
SE	0	1	7	7	0	0	15
SSE	0	2	10	5	0	0	17
S	0	3	8	2	2	0	15
SSW	1	5	1	6	8	0	21
SW	0	3	2	5	6	0	16
WSW	0	4	6	10	1	0	21
W	1	1	7	3	0	0	12
WNW	2	3	3	6	0	0	14
NW	2	8	10	2	0	0	22
NNW	0	5	4	4	0	0	13
VARIABLE	0	0	0	0	0	0	0
TOTAL	10	44	74	67	19	0	214

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 12
Hours of missing stability measurements in all stability classes: 2

DRESDEN NUCLEAR POWER STATION

PERIOD OF RECORD: APRIL-JUNE 2000

STABILITY CLASS - EXTREMELY STABLE (DIFF TEMP 300-35 FT)
WINDS MEASURED AT 300 FEET

WIND SPEED (in mph)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	0	0	0	0	0	0	0
NNE	0	1	1	0	0	0	2
NE	0	0	0	2	0	0	2
ENE	0	1	0	0	0	0	1
E	0	1	0	0	0	0	1
ESE	0	0	0	1	0	0	1
SE	0	0	0	2	1	0	3
SSE	0	0	1	0	0	0	1
S	0	0	1	1	0	0	2
SSW	0	0	0	0	0	0	0
SW	1	1	1	0	1	0	4
WSW	0	0	3	1	0	0	4
W	1	0	0	2	0	0	3
WNW	3	2	0	0	0	0	5
NW	0	0	2	0	0	0	2
NNW	0	1	2	1	0	0	4
VARIABLE	0	0	0	0	0	0	0
TOTAL	5	7	11	10	2	0	35

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 2

DRESDEN NUCLEAR POWER STATION

PERIOD OF RECORD: JULY-SEPTEMBER 2000

STABILITY CLASS - EXTREMELY UNSTABLE (DIFF TEMP 300-35 FT)
WINDS MEASURED AT 300 FEET

WIND SPEED (in mph)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	0	3	4	4	1	0	12
NNE	0	4	5	0	1	0	10
NE	0	4	10	0	0	0	14
ENE	0	1	1	0	0	0	2
E	0	0	3	0	0	0	3
ESE	0	0	4	0	0	0	4
SE	0	0	0	0	0	0	0
SSE	0	1	0	0	0	0	1
S	0	0	0	2	2	0	4
SSW	0	0	4	3	0	0	7
SW	0	0	0	3	0	0	3
WSW	0	0	2	0	0	0	2
W	0	1	1	1	0	0	3
WNW	0	1	1	0	0	0	2
NW	0	0	0	0	0	0	0
NNW	0	0	5	1	5	0	11
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	15	40	14	9	0	78

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 2
Hours of missing stability measurements in all stability classes: 0

DRESDEN NUCLEAR POWER STATION

PERIOD OF RECORD: JULY-SEPTEMBER 2000

STABILITY CLASS - MODERATELY UNSTABLE (DIFF TEMP 300-35 FT)
WINDS MEASURED AT 300 FEET

WIND SPEED (in mph)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	0	0	2	2	1	0	5
NNE	0	3	7	4	1	0	15
NE	0	2	12	2	0	0	16
ENE	0	4	3	0	0	0	7
E	0	3	2	1	0	0	6
ESE	0	2	3	3	0	0	8
SE	0	1	7	2	0	0	10
SSE	0	3	6	1	0	0	10
S	0	1	4	2	0	0	7
SSW	0	0	6	3	3	0	12
SW	0	0	1	3	0	0	4
WSW	0	2	2	4	0	0	8
W	0	1	6	1	0	0	8
WNW	0	0	1	0	0	0	1
NW	0	1	2	0	0	0	3
NNW	0	1	7	0	0	0	8
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	24	71	28	5	0	128

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 1
Hours of missing stability measurements in all stability classes: 0

DRESDEN NUCLEAR POWER STATION

PERIOD OF RECORD: JULY-SEPTEMBER 2000

STABILITY CLASS - SLIGHTLY UNSTABLE (DIFF TEMP 300-35 FT)
WINDS MEASURED AT 300 FEET

WIND SPEED (in mph)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	0	1	4	5	1	0	11
NNE	0	4	6	1	1	0	12
NE	0	5	2	1	0	0	8
ENE	1	9	7	0	0	0	17
E	0	6	3	1	0	0	10
ESE	0	0	7	1	0	0	8
SE	0	2	5	1	0	0	8
SSE	0	2	6	0	0	0	8
S	0	5	5	8	0	0	18
SSW	0	3	3	11	0	0	17
SW	0	0	4	1	3	0	8
WSW	0	3	8	5	0	0	16
W	0	2	3	3	0	0	8
WNW	0	2	2	0	0	0	4
NW	0	2	9	2	1	0	14
NNW	0	1	8	3	0	0	12
VARIABLE	0	0	0	0	0	0	0
TOTAL	1	47	82	43	6	0	179

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 1
Hours of missing stability measurements in all stability classes: 0

DRESDEN NUCLEAR POWER STATION

PERIOD OF RECORD: JULY-SEPTEMBER 2000

STABILITY CLASS - NEUTRAL (DIFF TEMP 300-35 FT)
WINDS MEASURED AT 300 FEET

WIND SPEED (in mph)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	1	10	12	18	2	0	43
NNE	3	10	26	21	7	0	67
NE	0	5	32	20	3	0	60
ENE	1	24	39	3	0	0	67
E	3	17	23	8	0	0	51
ESE	0	5	6	11	0	0	22
SE	0	6	20	12	5	1	44
SSE	0	8	17	16	1	1	43
S	2	9	31	30	5	0	77
SSW	1	9	25	22	4	0	61
SW	1	5	11	17	6	0	40
WSW	3	7	16	12	1	0	39
W	1	3	17	8	0	0	29
WNW	0	3	14	4	0	0	21
NW	2	7	19	10	2	1	41
NNW	1	2	14	24	1	0	42
VARIABLE	0	0	0	0	0	0	0
TOTAL	19	130	322	236	37	3	747

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 12
Hours of missing stability measurements in all stability classes: 0

DRESDEN NUCLEAR POWER STATION

PERIOD OF RECORD: JULY-SEPTEMBER 2000

STABILITY CLASS - SLIGHTLY STABLE (DIFF TEMP 300-35 FT)
WINDS MEASURED AT 300 FEET

WIND SPEED (in mph)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	0	1	5	7	0	0	13
NNE	0	6	24	13	1	0	44
NE	0	11	33	16	1	0	61
ENE	3	20	14	8	0	0	45
E	0	9	26	16	3	0	54
ESE	1	3	16	27	9	0	56
SE	1	8	15	13	1	0	38
SSE	0	3	15	40	0	0	58
S	1	3	17	54	25	1	101
SSW	0	2	24	47	12	3	88
SW	1	5	17	11	3	0	37
WSW	1	1	14	14	1	0	31
W	0	8	12	15	3	0	38
WNW	1	2	12	9	1	0	25
NW	2	4	10	2	0	0	18
NNW	1	2	6	6	6	0	21
VARIABLE	0	0	0	0	0	0	0
TOTAL	12	88	260	298	66	4	728

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 6
Hours of missing stability measurements in all stability classes: 0

DRESDEN NUCLEAR POWER STATION

PERIOD OF RECORD: JULY-SEPTEMBER 2000

STABILITY CLASS - MODERATELY STABLE (DIFF TEMP 300-35 FT)
WINDS MEASURED AT 300 FEET

WIND SPEED (in mph)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	1	3	3	5	6	0	18
NNE	3	3	13	10	0	0	29
NE	2	5	5	0	0	0	12
ENE	2	6	1	0	0	0	9
E	0	3	2	0	0	0	5
ESE	0	1	1	8	1	0	11
SE	1	2	7	12	0	0	22
SSE	0	4	14	10	1	0	29
S	0	3	2	5	3	0	13
SSW	0	2	8	14	7	2	33
SW	0	2	5	11	4	0	22
WSW	0	3	7	9	2	0	21
W	1	2	8	3	0	0	14
WNW	0	1	2	2	0	0	5
NW	0	2	6	2	0	0	10
NNW	0	0	3	8	4	0	15
VARIABLE	0	0	0	0	0	0	0
TOTAL	10	42	87	99	28	2	268

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 6
Hours of missing stability measurements in all stability classes: 0

DRESDEN NUCLEAR POWER STATION

PERIOD OF RECORD: JULY-SEPTEMBER 2000

STABILITY CLASS - EXTREMELY STABLE (DIFF TEMP 300-35 FT)
WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	0	1	5	4	0	0	10
NNE	0	2	0	0	0	0	2
NE	0	1	0	0	0	0	1
ENE	1	0	0	0	0	0	1
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	1	0	0	1	0	0	2
SSE	0	1	0	0	0	0	1
S	0	0	2	0	0	0	2
SSW	1	0	2	2	1	0	6
SW	0	0	1	1	5	0	7
WSW	0	0	3	0	0	0	3
W	0	1	4	0	0	0	5
WNW	0	1	0	0	0	0	1
NW	0	1	4	1	0	0	6
NNW	0	2	0	3	0	0	5
VARIABLE	0	0	0	0	0	0	0
TOTAL	3	10	21	12	6	0	52

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 0

DRESDEN NUCLEAR POWER STATION

PERIOD OF RECORD: OCTOBER-DECEMBER 2000

STABILITY CLASS - EXTREMELY UNSTABLE (DIFF TEMP 300-35 FT)
WINDS MEASURED AT 300 FEET

WIND SPEED (in mph)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	1	0	0	0	0	1
ENE	0	1	0	0	0	0	1
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	1	2	0	0	3
WNW	0	0	3	3	0	0	6
NW	0	0	0	4	0	0	4
NNW	0	0	0	0	0	0	0
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	2	4	9	0	0	15

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 4
Hours of missing stability measurements in all stability classes: 0

DRESDEN NUCLEAR POWER STATION

PERIOD OF RECORD: OCTOBER-DECEMBER 2000

STABILITY CLASS - MODERATELY UNSTABLE (DIFF TEMP 300-35 FT)
WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	0	3	0	0	0	0	3
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	1	0	0	0	0	1
E	0	0	0	0	0	0	0
ESE	0	0	2	1	0	0	3
SE	0	0	0	2	0	0	2
SSE	0	0	0	1	1	0	2
S	0	0	0	0	0	0	0
SSW	0	0	0	0	1	0	1
SW	0	0	0	2	3	0	5
WSW	0	1	5	2	0	0	8
W	0	0	1	4	1	0	6
WNW	0	0	1	4	0	0	5
NW	0	0	2	3	1	0	6
NNW	0	1	2	0	2	0	5
VARIABLE	0	0	0	0	0	0	0
TOTAL	0	6	13	19	9	0	47

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 4
Hours of missing stability measurements in all stability classes: 0

DRESDEN NUCLEAR POWER STATION

PERIOD OF RECORD: OCTOBER-DECEMBER 2000

STABILITY CLASS - SLIGHTLY UNSTABLE (DIFF TEMP 300-35 FT)
WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	0	1	1	0	0	0	2
NNE	0	2	0	0	0	0	2
NE	1	1	0	0	0	0	2
ENE	1	0	0	0	0	0	1
E	0	1	0	0	0	0	1
ESE	0	0	1	2	0	0	3
SE	0	0	1	0	0	0	1
SSE	0	1	3	6	0	0	10
S	0	0	3	0	0	0	3
SSW	0	0	0	4	1	1	6
SW	0	1	1	4	1	0	7
WSW	0	2	5	5	1	0	13
W	0	3	2	1	1	0	7
WNW	0	0	0	8	0	0	8
NW	0	1	1	2	1	0	5
NNW	0	0	1	0	2	0	3
VARIABLE	0	0	0	0	0	0	0
TOTAL	2	13	19	32	7	1	74

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 4
Hours of missing stability measurements in all stability classes: 0

DRESDEN NUCLEAR POWER STATION

PERIOD OF RECORD: OCTOBER-DECEMBER 2000

STABILITY CLASS - NEUTRAL (DIFF TEMP 300-35 FT)
WINDS MEASURED AT 300 FEET

WIND SPEED (in mph)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	1	9	4	14	7	0	35
NNE	3	3	9	11	4	1	31
NE	3	5	18	20	1	1	48
ENE	2	15	24	3	0	0	44
E	0	11	17	14	2	0	44
ESE	3	10	7	11	3	13	47
SE	2	8	7	8	7	0	32
SSE	0	16	17	19	7	0	59
S	0	5	5	12	16	4	42
SSW	1	4	8	18	9	2	42
SW	2	6	10	26	10	1	55
WSW	1	6	17	27	20	6	77
W	0	8	43	66	55	28	200
WNW	1	10	17	49	21	9	107
NW	2	9	20	18	22	0	71
NNW	1	9	9	14	14	6	53
VARIABLE	0	0	0	0	0	0	0
TOTAL	22	134	232	330	198	71	987

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 114
Hours of missing stability measurements in all stability classes: 0

DRESDEN NUCLEAR POWER STATION

PERIOD OF RECORD: OCTOBER-DECEMBER 2000

STABILITY CLASS - SLIGHTLY STABLE (DIFF TEMP 300-35 FT)
WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	0	3	7	7	3	0	20
NNE	2	3	5	6	1	1	18
NE	1	0	10	7	0	0	18
ENE	0	8	8	0	0	0	16
E	1	6	6	14	3	0	30
ESE	0	1	5	13	9	1	29
SE	1	3	11	23	13	0	51
SSE	0	7	21	11	1	5	45
S	0	4	8	16	22	4	54
SSW	2	4	15	29	13	2	65
SW	1	4	20	13	6	0	44
WSW	1	9	23	18	0	0	51
W	2	4	4	32	7	0	49
WNW	2	6	9	30	7	0	54
NW	0	10	14	7	0	0	31
NNW	1	5	5	11	7	0	29
VARIABLE	0	0	0	0	0	0	0
TOTAL	14	77	171	237	92	13	604

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 51
Hours of missing stability measurements in all stability classes: 0

DRESDEN NUCLEAR POWER STATION

PERIOD OF RECORD: OCTOBER-DECEMBER 2000

STABILITY CLASS - MODERATELY STABLE (DIFF TEMP 300-35 FT)
WINDS MEASURED AT 300 FEET

WIND DIRECTION	WIND SPEED (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	0	1	2	7	1	0	11
NNE	0	4	3	1	0	0	8
NE	0	1	2	0	0	0	3
ENE	0	4	2	0	0	0	6
E	1	3	2	0	0	0	6
ESE	0	3	0	4	1	0	8
SE	0	4	4	9	0	0	17
SSE	1	6	9	1	0	0	17
S	2	4	0	8	3	0	17
SSW	0	3	6	11	7	0	27
SW	3	5	5	8	0	0	21
WSW	1	3	15	4	0	0	23
W	2	4	15	3	3	0	27
WNW	1	2	7	8	4	0	22
NW	0	5	4	5	0	0	14
NNW	0	0	2	9	1	0	12
VARIABLE	0	0	0	0	0	0	0
TOTAL	11	52	78	78	20	0	239

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 8
Hours of missing stability measurements in all stability classes: 0

DRESDEN NUCLEAR POWER STATION

PERIOD OF RECORD: OCTOBER-DECEMBER 2000

STABILITY CLASS - EXTREMELY STABLE (DIFF TEMP 300-35 FT)
WINDS MEASURED AT 300 FEET

WIND SPEED (in mph)

WIND DIRECTION	1-3	4-7	8-12	13-18	19-24	> 24	TOTAL
N	0	0	1	2	0	0	3
NNE	0	0	3	0	0	0	3
NE	0	0	1	0	0	0	1
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	1	0	0	1
SSW	0	0	1	5	3	0	9
SW	0	0	0	2	2	0	4
WSW	1	5	0	0	0	0	6
W	0	0	4	11	1	0	16
WNW	1	0	4	2	2	0	9
NW	0	0	0	4	0	0	4
NNW	0	0	1	0	0	0	1
VARIABLE	0	0	0	0	0	0	0
TOTAL	2	5	15	27	8	0	57

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 0

APPENDIX III

2000 REMP SAMPLE RESULTS

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1.0 INTRODUCTION

The following constitutes the current, 2000 Monthly Progress Report for the Radiological Environmental Monitoring Program conducted at the Dresden Nuclear Power Station, Morris, Illinois. Results of completed analyses are presented in the attached tables. Missing entries indicate analyses that are not completed and the results will appear in subsequent reports.

Missing tables indicate sample media scheduled for collection at a future date. Tables will appear in subsequent reports.

Data obtained in the program are well within the ranges previously encountered in the program and to be expected in the environmental media sampled.

For all gamma isotopic analyses, spectrum is computer scanned from 80 to 2048 keV. Specifically included are Mn-54, Fe-59, Co-58, Co-60, Zn-65, Zr/Nb-95, I-131, Ba/La-140, Cs-134 and Cs-137. Naturally occurring gamma-emitters, such as K-40 and Ra daughters, are frequently detected but not listed here. The data are reported in the format of x±2s;2TPU, where "x" is the significant result, "s" is the one standard deviation counting uncertainty, and TPU is the total propagated uncertainty at the one sigma confidence level.

Locations denoted by a "(C)" after site code refer to control locations.

All concentrations, except gross alpha and beta, are decay corrected to the time of collection.

TLD data are provided by Exelon Generation Company.

Deviations from Scheduled Sampling and Corrective Actions Taken

All samples were collected within the scheduled period unless noted otherwise in the Listing of Missed Samples.

Unusual Environmental Measurements

None for 2000.

2.0 LISTING OF MISSED SAMPLES

Sample Type	Location Code	Expected Collection Date	Reason
			None for 2000.

3.0 LISTING OF SAMPLE ANOMALIES

Sample Type	Location Code	Collection Date	Reason
A/I	D-12	04-14-00	No apparent reason for low reading of 135.7 hours.
TLD	Other	06-30-00	New utility posts installed; TLDs 116-1 and 116-2 found on old utility posts, in a ditch, underwater. Collector mounted new 3rd quarter TLDs.
A	D-01	11-03-00	No apparent reason for low FL_A reading of 52 CFH; collecter reported pump responded well to vacuum and leak tests.

Table 1. Airborne Particulates and Iodine Cartridges

Collection: Airborne Particulates - Continuous; weekly exchange
Iodine cartridges - Continuous; biweekly exchange

ODCM-Required LLDs: Gross Beta = 0.01, I-131 = 0.07 pCi/m^3

Units: 10^{-2} pCi/m^3

D-01 Onsite Station 1

Date Collected	Volume (m^3)	Gross Beta	I-131[a]	Date Collected	Volume (m^3)	Gross Beta	I-131[a]
01-08-00	327	3.3 ± 0.3; 0.7	-0.2 ± 0.5; 0.5	07-08-00	322	1.6 ± 0.3; 0.4	-0.0 ± 0.3; 0.3
01-15-00	280	2.6 ± 0.4; 0.6	-	07-14-00	239	1.8 ± 0.4; 0.5	-
01-21-00	242	3.6 ± 0.4; 0.8	0.4 ± 0.4; 0.4	07-21-00	291	1.5 ± 0.3; 0.4	-0.3 ± 0.5; 0.5
01-28-00	285	4.4 ± 0.4; 0.9	-	07-28-00	283	2.3 ± 0.3; 0.5	-
02-04-00	287	3.4 ± 0.4; 0.8	-0.3 ± 0.5; 0.5	08-04-00	284	2.3 ± 0.3; 0.5	0.5 ± 0.4; 0.4
02-11-00	282	3.5 ± 0.4; 0.7	-	08-11-00	280	2.2 ± 0.3; 0.5	-
02-18-00	287	2.6 ± 0.4; 0.6	1.1 ± 0.4; 0.5	08-20-00	370	1.7 ± 0.3; 0.4	0.1 ± 0.3; 0.3
02-25-00	283	3.2 ± 0.4; 0.7	-	08-25-00	208	3.1 ± 0.5; 0.7	-
03-03-00	296	2.0 ± 0.3; 0.5	0.6 ± 0.5; 0.5	09-01-00	283	4.0 ± 0.4; 0.8	0.4 ± 0.5; 0.5
03-10-00	275	2.5 ± 0.4; 0.6	-	09-08-00	283	2.3 ± 0.3; 0.5	-
03-17-00	266	2.5 ± 0.4; 0.6	0.8 ± 0.4; 0.4	09-14-00	244	1.5 ± 0.3; 0.4	-0.3 ± 0.5; 0.5
03-24-00	294	1.7 ± 0.3; 0.4	-	09-22-00	326	2.6 ± 0.3; 0.6	-
03-31-00	288	1.3 ± 0.3; 0.4	-0.6 ± 0.5; 0.5	09-29-00	288	1.7 ± 0.3; 0.4	0.3 ± 0.4; 0.4
1st Qtr. Mean±s.d.		2.8±0.9	0.3±0.6	3rd Qtr. Mean±s.d.		2.2±0.7	0.1±0.3
04-07-00	286	2.2 ± 0.3; 0.5	-	10-06-00	280	2.7 ± 0.4; 0.6	-
04-14-00	283	1.7 ± 0.3; 0.4	-0.0 ± 0.5; 0.5	10-13-00	282	2.3 ± 0.3; 0.5	-0.0 ± 0.4; 0.4
04-21-00	279	1.1 ± 0.3; 0.4	-	10-20-00	285	3.6 ± 0.4; 0.7	-
04-28-00	287	2.4 ± 0.3; 0.6	-1.2 ± 0.4; 0.4	10-27-00	279	4.9 ± 0.4; 1.0	0.6 ± 0.4; 0.4
05-04-00	241	1.9 ± 0.4; 0.5	-	11-03-00	271[b]	2.4 ± 0.4; 0.6	-
05-12-00	327	1.4 ± 0.3; 0.4	0.5 ± 0.4; 0.4	11-10-00	285	2.3 ± 0.3; 0.5	0.4 ± 0.4; 0.4
05-19-00	288	1.7 ± 0.4; 0.5	-	11-17-00	285	3.1 ± 0.4; 0.7	-
05-26-00	283	1.7 ± 0.3; 0.4	-0.8 ± 0.3; 0.3	11-24-00	277	2.8 ± 0.4; 0.6	0.7 ± 0.4; 0.4
06-02-00	288	1.9 ± 0.3; 0.5	-	12-01-00	284	4.1 ± 0.5; 0.9	-
06-09-00	283	2.0 ± 0.4; 0.5	0.3 ± 0.3; 0.3	12-08-00	284	1.8 ± 0.3; 0.4	-0.3 ± 0.4; 0.4
06-16-00	287	1.6 ± 0.3; 0.4	-	12-15-00	282	3.5 ± 0.4; 0.8	-
06-23-00	287	1.4 ± 0.3; 0.4	0.4 ± 0.3; 0.3	12-22-00	291	3.6 ± 0.4; 0.7	-0.2 ± 0.3; 0.3
06-30-00	286	1.5 ± 0.3; 0.4	-	12-29-00	290	3.8 ± 0.4; 0.8	-
2nd Qtr. Mean±s.d.		1.7±0.3	-0.1±0.7	4th Qtr. Mean±s.d.		3.1±0.9	0.2±0.4

[a] Volume based on a two week collection period.

[b] Volume low due to low FL_A reading of 52 CFH. Collector found no apparent reason for this low reading; pump responded well to vacuum and leak tests.

Table 1. Airborne Particulates and Iodine Cartridges

Collection: Airborne Particulates - Continuous; weekly exchange
Iodine cartridges - Continuous; biweekly exchange

ODCM-Required LLDs: Gross Beta = 0.01, I-131 = 0.07 pCi/m^3

Units: 10^{-2} pCi/m^3

D-02 Onsite Station 2

Date Collected	Volume (m^3)	Gross Beta	I-131[a]
01-08-00	328	4.4 ± 0.4; 0.9	-0.2 ± 0.5; 0.5
01-15-00	280	3.1 ± 0.4; 0.7	-
01-21-00	243	4.2 ± 0.5; 0.9	0.0 ± 0.4; 0.4
01-28-00	285	4.8 ± 0.4; 1.0	-
02-04-00	287	3.1 ± 0.4; 0.7	-0.5 ± 0.4; 0.4
02-11-00	282	3.8 ± 0.4; 0.8	-
02-18-00	287	2.4 ± 0.4; 0.6	-0.1 ± 0.5; 0.5
02-25-00	283	3.9 ± 0.4; 0.8	-
03-03-00	296	2.0 ± 0.3; 0.5	0.2 ± 0.5; 0.5
03-10-00	275	1.8 ± 0.4; 0.5	-
03-17-00	281	3.5 ± 0.4; 0.7	0.1 ± 0.4; 0.4
03-24-00	287	2.0 ± 0.3; 0.5	-
03-31-00	289	1.5 ± 0.3; 0.4	0.1 ± 0.5; 0.5
1st Qtr. Mean±s.d.		3.1±1.1	-0.1±0.2
04-07-00	284	2.7 ± 0.3; 0.6	-
04-14-00	280	2.1 ± 0.3; 0.5	0.1 ± 0.5; 0.5
04-21-00	287	1.5 ± 0.3; 0.4	-
04-28-00	282	2.6 ± 0.4; 0.6	-0.4 ± 0.4; 0.4
05-04-00	241	1.9 ± 0.4; 0.5	-
05-12-00	327	1.9 ± 0.3; 0.5	-0.0 ± 0.4; 0.4
05-19-00	288	1.9 ± 0.4; 0.5	-
05-26-00	283	1.9 ± 0.3; 0.5	-0.3 ± 0.3; 0.3
06-02-00	286	1.9 ± 0.3; 0.5	-
06-09-00	283	2.1 ± 0.4; 0.5	0.3 ± 0.3; 0.3
06-16-00	286	1.8 ± 0.3; 0.5	-
06-23-00	287	1.5 ± 0.3; 0.4	-0.4 ± 0.4; 0.4
06-30-00	282	1.5 ± 0.3; 0.4	-
2nd Qtr. Mean±s.d.		1.9±0.4	-0.1±0.3
07-08-00	330	2.3 ± 0.3; 0.5	0.1 ± 0.4; 0.4
07-14-00	246	2.1 ± 0.4; 0.6	-
07-21-00	291	1.7 ± 0.3; 0.4	0.2 ± 0.4; 0.4
07-28-00	284	2.1 ± 0.3; 0.5	-
08-04-00	281	2.6 ± 0.4; 0.6	-0.4 ± 0.3; 0.3
08-11-00	283	2.3 ± 0.3; 0.5	-
08-20-00	370	2.4 ± 0.3; 0.5	0.2 ± 0.4; 0.4
08-25-00	207	3.3 ± 0.5; 0.8	-
09-01-00	283	4.0 ± 0.4; 0.8	-0.6 ± 0.5; 0.6
09-08-00	279	2.5 ± 0.3; 0.6	-
09-14-00	244	2.0 ± 0.4; 0.5	0.1 ± 0.5; 0.5
09-22-00	326	2.9 ± 0.3; 0.6	-
09-29-00	292	2.0 ± 0.3; 0.5	0.2 ± 0.4; 0.4
3rd Qtr. Mean±s.d.		2.5±0.6	-0.0±0.3
10-06-00	279	3.0 ± 0.4; 0.7	-
10-13-00	279	2.2 ± 0.3; 0.5	-0.8 ± 0.5; 0.5
10-20-00	285	3.9 ± 0.4; 0.8	-
10-27-00	279	5.0 ± 0.4; 1.0	0.5 ± 0.4; 0.4
11-03-00	290	2.7 ± 0.4; 0.6	-
11-10-00	287	2.3 ± 0.3; 0.5	0.1 ± 0.4; 0.4
11-17-00	284	3.6 ± 0.4; 0.8	-
11-24-00	287	3.1 ± 0.4; 0.7	0.0 ± 0.4; 0.4
12-01-00	284	4.8 ± 0.5; 1.0	-
12-08-00	285	2.0 ± 0.3; 0.5	-0.6 ± 0.5; 0.5
12-15-00	281	4.0 ± 0.5; 0.8	-
12-22-00	291	3.7 ± 0.4; 0.8	-0.1 ± 0.5; 0.5
12-29-00	288	4.0 ± 0.4; 0.8	-
4th Qtr. Mean±s.d.		3.4±1.0	-0.1±0.5

[a] Volume based on a two week collection period.

Table 1. Airborne Particulates and Iodine Cartridges

Collection: Airborne Particulates - Continuous; weekly exchange
Iodine cartridges - Continuous; biweekly exchange

ODCM-Required LLDs: Gross Beta = 0.01, I-131 = 0.07 pCi/m^3

Units: 10^{-2} pCi/m^3

D-03 Onsite Station 3

Date Collected	Volume (m^3)	Gross Beta	I-131[a]	Date Collected	Volume (m^3)	Gross Beta	I-131[a]
01-08-00	327	3.3 ± 0.3; 0.7	0.2 ± 0.5; 0.5	07-08-00	321	2.1 ± 0.3; 0.5	-0.0 ± 0.3; 0.3
01-15-00	280	2.4 ± 0.4; 0.6	-	07-14-00	240	1.8 ± 0.4; 0.5	-
01-21-00	244	4.0 ± 0.5; 0.9	-0.0 ± 0.5; 0.5	07-21-00	287	1.9 ± 0.3; 0.5	0.3 ± 0.4; 0.4
01-28-00	287	4.3 ± 0.4; 0.9	-	07-28-00	284	2.5 ± 0.3; 0.6	-
02-04-00	285	3.1 ± 0.4; 0.7	0.3 ± 0.4; 0.4	08-04-00	282	2.4 ± 0.3; 0.5	0.0 ± 0.4; 0.4
02-11-00	280	3.3 ± 0.4; 0.7	-	08-11-00	283	2.2 ± 0.3; 0.5	-
02-18-00	285	2.3 ± 0.4; 0.6	-0.1 ± 0.4; 0.4	08-20-00	371	2.3 ± 0.3; 0.5	0.3 ± 0.3; 0.3
02-25-00	283	3.3 ± 0.4; 0.7	-	08-25-00	208	3.8 ± 0.5; 0.8	-
03-03-00	297	1.8 ± 0.3; 0.5	-0.7 ± 0.4; 0.4	09-01-00	282	4.1 ± 0.4; 0.9	-0.5 ± 0.6; 0.6
03-10-00	274	2.4 ± 0.4; 0.6	-	09-08-00	284	2.2 ± 0.3; 0.5	-
03-17-00	277	2.8 ± 0.4; 0.6	-0.1 ± 0.5; 0.5	09-14-00	245	1.7 ± 0.3; 0.5	0.2 ± 0.5; 0.5
03-24-00	292	1.8 ± 0.3; 0.4	-	09-22-00	326	2.5 ± 0.3; 0.6	-
03-31-00	290	1.3 ± 0.3; 0.4	-0.1 ± 0.4; 0.4	09-29-00	292	1.8 ± 0.3; 0.4	-0.3 ± 0.4; 0.4
1st Qtr. Mean±s.d.		2.8±0.9	-0.1±0.3	3rd Qtr. Mean±s.d.		2.4±0.7	-0.0±0.3
04-07-00	285	2.1 ± 0.3; 0.5	-	10-06-00	278	2.8 ± 0.4; 0.7	-
04-14-00	278	2.0 ± 0.3; 0.5	-0.2 ± 0.4; 0.4	10-13-00	292	2.5 ± 0.3; 0.6	0.2 ± 0.5; 0.5
04-21-00	284	1.3 ± 0.3; 0.4	-	10-20-00	285	4.4 ± 0.4; 0.9	-
04-28-00	282	2.4 ± 0.3; 0.5	1.8 ± 0.4; 0.5	10-27-00	280	5.2 ± 0.4; 1.0	0.2 ± 0.4; 0.4
05-04-00	241	2.1 ± 0.4; 0.5	-	11-03-00	290	2.7 ± 0.4; 0.6	-
05-12-00	329	1.9 ± 0.3; 0.5	0.8 ± 0.3; 0.4	11-10-00	285	2.1 ± 0.3; 0.5	0.2 ± 0.4; 0.4
05-19-00	285	2.0 ± 0.4; 0.5	-	11-17-00	285	3.0 ± 0.4; 0.7	-
05-26-00	285	2.3 ± 0.3; 0.5	-0.9 ± 0.3; 0.3	11-24-00	287	3.0 ± 0.4; 0.7	0.2 ± 0.4; 0.4
06-02-00	287	2.1 ± 0.3; 0.5	-	12-01-00	284	4.7 ± 0.5; 1.0	-
06-09-00	284	1.6 ± 0.3; 0.4	-0.1 ± 0.4; 0.4	12-08-00	284	2.0 ± 0.3; 0.5	0.1 ± 0.4; 0.4
06-16-00	287	1.5 ± 0.3; 0.4	-	12-15-00	280	2.1 ± 0.4; 0.5	-
06-23-00	286	1.4 ± 0.3; 0.4	-0.1 ± 0.4; 0.4	12-22-00	291	3.3 ± 0.4; 0.7	0.4 ± 0.4; 0.4
06-30-00	287	1.7 ± 0.3; 0.4	-	12-29-00	289	3.4 ± 0.4; 0.7	-
2nd Qtr. Mean±s.d.		1.9±0.3	0.2±0.9	4th Qtr. Mean±s.d.		3.2±1.0	0.2±0.1

[a] Volume based on a two week collection period.

Table 1. Airborne Particulates and Iodine Cartridges

Collection: Airborne Particulates - Continuous; weekly exchange
Iodine cartridges - Continuous; biweekly exchange

ODCM-Required LLDs: Gross Beta = 0.01, I-131 = 0.07 pCi/m^3

Units: 10^{-2} pCi/m^3

D-04 Collins Road

Date Collected	Volume (m^3)	Gross Beta	I-131[a]
01-08-00	327	4.0 ± 0.4; 0.8	0.0 ± 0.4; 0.4
01-15-00	280	2.7 ± 0.4; 0.6	-
01-21-00	245	4.8 ± 0.5; 1.0	-0.2 ± 0.4; 0.4
01-28-00	285	5.1 ± 0.4; 1.0	-
02-04-00	287	3.7 ± 0.4; 0.8	0.2 ± 0.4; 0.4
02-11-00	282	3.6 ± 0.4; 0.8	-
02-18-00	287	2.6 ± 0.4; 0.6	0.5 ± 0.4; 0.5
02-25-00	274	3.4 ± 0.4; 0.7	-
03-03-00	296	2.1 ± 0.3; 0.5	0.5 ± 0.3; 0.4
03-10-00	274	2.3 ± 0.4; 0.6	-
03-17-00	276	3.0 ± 0.4; 0.6	-0.2 ± 0.4; 0.4
03-24-00	294	1.9 ± 0.3; 0.5	-
03-31-00	288	1.5 ± 0.3; 0.4	-0.2 ± 0.4; 0.4
1st Qtr. Mean±s.d.		3.1±1.1	0.1±0.3
04-07-00	286	2.5 ± 0.3; 0.6	-
04-14-00	283	1.9 ± 0.3; 0.5	0.5 ± 0.5; 0.5
04-21-00	279	1.5 ± 0.4; 0.5	-
04-28-00	287	2.2 ± 0.3; 0.5	1.6 ± 0.5; 0.5
05-04-00	241	2.2 ± 0.4; 0.6	-
05-12-00	327	1.7 ± 0.3; 0.4	-0.2 ± 0.4; 0.4
05-19-00	288	2.1 ± 0.4; 0.5	-
05-26-00	285	2.0 ± 0.3; 0.5	-0.5 ± 0.3; 0.3
06-02-00	287	1.8 ± 0.3; 0.5	-
06-09-00	283	1.9 ± 0.4; 0.5	-0.7 ± 0.4; 0.4
06-16-00	286	1.6 ± 0.3; 0.4	-
06-23-00	287	1.2 ± 0.3; 0.4	0.4 ± 0.4; 0.4
06-30-00	286	1.8 ± 0.3; 0.5	-
2nd Qtr. Mean±s.d.		1.9±0.3	0.2±0.8
07-08-00	322	2.1 ± 0.3; 0.5	0.3 ± 0.3; 0.3
07-14-00	237	2.1 ± 0.4; 0.6	-
07-21-00	293	1.4 ± 0.3; 0.4	-0.6 ± 0.3; 0.4
07-28-00	283	2.0 ± 0.3; 0.5	-
08-04-00	284	2.5 ± 0.3; 0.6	0.4 ± 0.3; 0.3
08-11-00	280	2.3 ± 0.3; 0.5	-
08-20-00	370	2.2 ± 0.3; 0.5	-0.2 ± 0.3; 0.3
08-25-00	208	3.3 ± 0.5; 0.8	-
09-01-00	283	4.2 ± 0.4; 0.9	-0.4 ± 0.6; 0.6
09-08-00	283	2.4 ± 0.3; 0.5	-
09-14-00	244	1.6 ± 0.3; 0.4	0.4 ± 0.5; 0.5
09-22-00	326	2.7 ± 0.3; 0.6	-
09-29-00	293	2.1 ± 0.3; 0.5	-0.1 ± 0.4; 0.4
3rd Qtr. Mean±s.d.		2.4±0.7	0.0±0.4
10-06-00	279	2.9 ± 0.4; 0.7	-
10-13-00	283	2.8 ± 0.4; 0.6	0.2 ± 0.5; 0.5
10-20-00	285	4.4 ± 0.4; 0.9	-
10-27-00	279	5.7 ± 0.5; 1.1	0.1 ± 0.4; 0.4
11-03-00	291	2.7 ± 0.4; 0.6	-
11-10-00	285	2.3 ± 0.3; 0.5	0.7 ± 0.4; 0.4
11-17-00	285	3.2 ± 0.4; 0.7	-
11-24-00	287	3.3 ± 0.4; 0.7	0.1 ± 0.3; 0.3
12-01-00	284	4.2 ± 0.5; 0.9	-
12-08-00	284	2.0 ± 0.3; 0.5	0.2 ± 0.5; 0.5
12-15-00	282	4.0 ± 0.5; 0.9	-
12-22-00	291	4.5 ± 0.4; 0.9	0.0 ± 0.4; 0.4
12-29-00	290	3.9 ± 0.4; 0.8	-
4th Qtr. Mean±s.d.		3.5±1.1	0.2±0.2

[a] Volume based on a two week collection period.

Table 1. Airborne Particulates and Iodine Cartridges

Collection: Airborne Particulates - Continuous; weekly exchange
Iodine cartridges - Continuous; biweekly exchange

ODCM-Required LLDs: Gross Beta = 0.01, I-131 = 0.07 pCi/m^3

Units: 10^{-2} pCi/m^3

D-07 Clay Products

Date Collected	Volume (m^3)	Gross Beta	I-131[a]	Date Collected	Volume (m^3)	Gross Beta	I-131[a]
01-08-00	331	4.0 ± 0.4; 0.8	-0.1 ± 0.5; 0.5	07-08-00	321	2.2 ± 0.3; 0.5	-0.3 ± 0.3; 0.3
01-15-00	284	3.1 ± 0.4; 0.7	-	07-14-00	240	2.3 ± 0.4; 0.6	-
01-21-00	244	3.5 ± 0.4; 0.8	-0.4 ± 0.5; 0.5	07-21-00	290	1.7 ± 0.3; 0.4	-0.3 ± 0.3; 0.3
01-28-00	285	4.3 ± 0.4; 0.9	-	07-28-00	284	1.9 ± 0.3; 0.5	-
02-04-00	286	3.2 ± 0.4; 0.7	-0.4 ± 0.5; 0.5	08-04-00	282	2.6 ± 0.3; 0.6	0.2 ± 0.4; 0.4
02-11-00	282	3.6 ± 0.4; 0.8	-	08-11-00	283	1.9 ± 0.3; 0.5	-
02-18-00	287	2.5 ± 0.4; 0.6	0.0 ± 0.4; 0.4	08-20-00	370	2.4 ± 0.3; 0.5	-0.2 ± 0.3; 0.3
02-25-00	273	3.6 ± 0.4; 0.8	-	08-25-00	208	3.5 ± 0.5; 0.8	-
03-03-00	297	1.7 ± 0.3; 0.4	0.6 ± 0.4; 0.4	09-01-00	276	3.6 ± 0.4; 0.8	0.8 ± 0.5; 0.5
03-10-00	274	2.9 ± 0.5; 0.7	-	09-08-00	285	2.2 ± 0.3; 0.5	-
03-17-00	281	3.6 ± 0.4; 0.8	0.1 ± 0.4; 0.4	09-14-00	249	1.6 ± 0.3; 0.4	0.2 ± 0.4; 0.4
03-24-00	288	2.2 ± 0.3; 0.5	-	09-22-00	326	2.9 ± 0.3; 0.6	-
03-31-00	290	1.6 ± 0.3; 0.4	0.2 ± 0.4; 0.4	09-29-00	287	2.0 ± 0.3; 0.5	-0.1 ± 0.4; 0.4
1st Qtr. Mean±s.d.		3.0±0.8	-0.0±0.3	3rd Qtr. Mean±s.d.		2.4±0.6	0.1±0.4
04-07-00	291	2.8 ± 0.3; 0.6	-	10-06-00	276	2.6 ± 0.4; 0.6	-
04-14-00	263	2.3 ± 0.4; 0.6	-0.2 ± 0.5; 0.5	10-13-00	275	2.2 ± 0.3; 0.5	0.3 ± 0.5; 0.5
04-21-00	284	1.6 ± 0.4; 0.5	-	10-20-00	286	3.8 ± 0.4; 0.8	-
04-28-00	287	2.7 ± 0.4; 0.6	-0.5 ± 0.4; 0.4	10-27-00	280	6.2 ± 0.5; 1.2	-0.2 ± 0.4; 0.4
05-04-00	240	2.3 ± 0.4; 0.6	-	11-03-00	290	2.7 ± 0.4; 0.6	-
05-12-00	329	2.0 ± 0.3; 0.5	0.1 ± 0.4; 0.4	11-10-00	285	2.5 ± 0.3; 0.6	-0.0 ± 0.4; 0.4
05-19-00	285	2.1 ± 0.4; 0.5	-	11-17-00	285	3.1 ± 0.4; 0.7	-
05-26-00	285	2.1 ± 0.3; 0.5	0.3 ± 0.3; 0.3	11-24-00	282	2.9 ± 0.4; 0.6	-0.2 ± 0.4; 0.4
06-02-00	286	2.1 ± 0.3; 0.5	-	12-01-00	284	5.2 ± 0.5; 1.1	-
06-09-00	303	3.1 ± 0.4; 0.7	-0.0 ± 0.3; 0.3	12-08-00	289	1.8 ± 0.3; 0.4	0.1 ± 0.4; 0.4
06-16-00	296	2.0 ± 0.3; 0.5	-	12-15-00	276	3.6 ± 0.4; 0.8	-
06-23-00	291	1.5 ± 0.3; 0.4	-0.2 ± 0.3; 0.3	12-22-00	291	4.6 ± 0.4; 0.9	0.1 ± 0.4; 0.4
06-30-00	287	1.6 ± 0.3; 0.4	-	12-29-00	288	3.9 ± 0.4; 0.8	-
2nd Qtr. Mean±s.d.		2.2±0.5	-0.1±0.3	4th Qtr. Mean±s.d.		3.5±1.3	0.0±0.2

[a] Volume based on a two week collection period.

Table 1. Airborne Particulates and Iodine Cartridges

Collection: Airborne Particulates - Continuous; weekly exchange
Iodine cartridges - Continuous; biweekly exchange

ODCM-Required LLDs: Gross Beta = 0.01, I-131 = 0.07 pCi/m^3

Units: 10^{-2} pCi/m^3

D-12 (C) Lisbon

Date Collected	Volume (m^3)	Gross Beta	I-131[a]
01-08-00	324	3.9 ± 0.4; 0.8	0.5 ± 0.5; 0.5
01-15-00	286	2.5 ± 0.4; 0.6	-
01-21-00	244	4.2 ± 0.5; 0.9	-0.3 ± 0.4; 0.4
01-28-00	285	4.7 ± 0.4; 1.0	-
02-04-00	285	2.8 ± 0.4; 0.6	-0.1 ± 0.4; 0.4
02-11-00	283	4.1 ± 0.4; 0.8	-
02-18-00	287	2.3 ± 0.4; 0.6	0.3 ± 0.5; 0.5
02-25-00	283	3.5 ± 0.4; 0.8	-
03-03-00	297	1.6 ± 0.3; 0.4	-0.0 ± 0.5; 0.5
03-10-00	274	2.2 ± 0.4; 0.6	-
03-17-00	291	2.6 ± 0.3; 0.6	-0.0 ± 0.4; 0.4
03-24-00	279	1.8 ± 0.3; 0.5	-
03-31-00	289	1.5 ± 0.3; 0.4	-0.6 ± 0.5; 0.5
1st Qtr. Mean±s.d.		2.9±1.1	-0.0±0.4
04-07-00	297	2.4 ± 0.3; 0.5	-
04-14-00	230[b]	2.3 ± 0.4; 0.6	0.6 ± 0.4; 0.4
04-21-00	284	1.4 ± 0.4; 0.4	-
04-28-00	287	2.6 ± 0.4; 0.6	0.8 ± 0.3; 0.4
05-04-00	240	2.1 ± 0.4; 0.6	-
05-12-00	329	2.4 ± 0.3; 0.6	0.1 ± 0.4; 0.4
05-19-00	285	2.3 ± 0.4; 0.6	-
05-26-00	285	2.2 ± 0.3; 0.5	0.0 ± 0.3; 0.3
06-02-00	286	2.1 ± 0.3; 0.5	-
06-09-00	284	2.0 ± 0.4; 0.5	0.0 ± 0.4; 0.4
06-16-00	286	1.6 ± 0.3; 0.4	-
06-23-00	287	1.3 ± 0.3; 0.4	-0.1 ± 0.4; 0.4
06-30-00	282	1.6 ± 0.3; 0.4	-
2nd Qtr. Mean±s.d.		2.0±0.4	0.2±0.4
07-08-00	325	1.9 ± 0.3; 0.5	0.7 ± 0.2; 0.3
07-14-00	253	1.9 ± 0.4; 0.5	-
07-21-00	278	1.7 ± 0.3; 0.4	-0.9 ± 0.4; 0.4
07-28-00	284	2.2 ± 0.3; 0.5	-
08-04-00	282	2.1 ± 0.3; 0.5	0.1 ± 0.4; 0.4
08-11-00	283	2.4 ± 0.3; 0.6	-
08-20-00	370	2.1 ± 0.3; 0.5	-0.1 ± 0.3; 0.3
08-25-00	211	3.3 ± 0.5; 0.7	-
09-01-00	281	4.0 ± 0.4; 0.8	-0.3 ± 0.5; 0.5
09-08-00	285	2.3 ± 0.3; 0.5	-
09-14-00	244	1.8 ± 0.3; 0.5	0.0 ± 0.5; 0.5
09-22-00	326	2.4 ± 0.3; 0.5	-
09-29-00	288	1.9 ± 0.3; 0.5	0.2 ± 0.3; 0.3
3rd Qtr. Mean±s.d.		2.3±0.7	-0.0±0.5
10-06-00	282	2.9 ± 0.4; 0.7	-
10-13-00	284	2.3 ± 0.3; 0.5	-0.4 ± 0.4; 0.4
10-20-00	286	3.8 ± 0.4; 0.8	-
10-27-00	271	4.8 ± 0.4; 1.0	0.1 ± 0.4; 0.4
11-03-00	290	2.6 ± 0.4; 0.6	-
11-10-00	285	2.5 ± 0.3; 0.6	0.0 ± 0.4; 0.4
11-17-00	285	3.4 ± 0.4; 0.7	-
11-24-00	287	3.0 ± 0.4; 0.7	-0.1 ± 0.3; 0.3
12-01-00	283	5.0 ± 0.5; 1.0	-
12-08-00	284	1.9 ± 0.3; 0.5	-0.4 ± 0.4; 0.4
12-15-00	280	3.9 ± 0.5; 0.8	-
12-22-00	291	3.7 ± 0.4; 0.8	-0.1 ± 0.5; 0.5
12-29-00	287	4.1 ± 0.4; 0.8	-
4th Qtr. Mean±s.d.		3.4±0.9	-0.2±0.2

[a] Volume based on a two week collection period.
[b] Volume low; no apparent reason for low meter reading of 135.7.

Table 1. Airborne Particulates and Iodine Cartridges

Collection: Airborne Particulates - Continuous; weekly exchange
Iodine cartridges - Continuous; biweekly exchange

ODCM-Required LLDs: Gross Beta = 0.01, I-131 = 0.07 pCi/m^3

Units: 10^{-2} pCi/m^3

D-45 McKinley Woods Road

Date Collected	Volume (m^3)	Gross Beta	I-131[a]
01-08-00	324	3.4 ± 0.3; 0.7	0.4 ± 0.4; 0.4
01-15-00	296	2.4 ± 0.4; 0.6	-
01-21-00	240	4.1 ± 0.5; 0.9	-0.0 ± 0.4; 0.4
01-28-00	285	4.7 ± 0.4; 1.0	-
02-04-00	285	2.4 ± 0.4; 0.6	0.1 ± 0.4; 0.4
02-11-00	283	4.1 ± 0.4; 0.9	-
02-18-00	287	2.0 ± 0.4; 0.5	-0.0 ± 0.5; 0.5
02-25-00	278	3.2 ± 0.4; 0.7	-
03-03-00	297	2.0 ± 0.3; 0.5	-0.2 ± 0.4; 0.4
03-10-00	274	2.3 ± 0.4; 0.6	-
03-17-00	291	2.7 ± 0.3; 0.6	0.2 ± 0.4; 0.4
03-24-00	269	1.8 ± 0.3; 0.5	-
03-31-00	287	1.5 ± 0.3; 0.4	0.2 ± 0.4; 0.4
1st Qtr. Mean±s.d.		2.8±1.0	0.1±0.2
04-07-00	304	2.3 ± 0.3; 0.5	-
04-14-00	263	2.0 ± 0.3; 0.5	-0.3 ± 0.4; 0.5
04-21-00	284	1.5 ± 0.4; 0.4	-
04-28-00	277	2.7 ± 0.4; 0.6	0.3 ± 0.4; 0.4
05-04-00	240	2.3 ± 0.4; 0.6	-
05-12-00	329	1.5 ± 0.3; 0.4	-0.2 ± 0.4; 0.4
05-19-00	285	2.1 ± 0.4; 0.5	-
05-26-00	285	1.8 ± 0.3; 0.5	-0.1 ± 0.3; 0.3
06-02-00	286	2.1 ± 0.3; 0.5	-
06-09-00	284	1.7 ± 0.3; 0.5	0.4 ± 0.3; 0.4
06-16-00	281	1.7 ± 0.3; 0.4	-
06-23-00	287	1.3 ± 0.3; 0.4	0.3 ± 0.4; 0.4
06-30-00	280	1.6 ± 0.3; 0.4	-
2nd Qtr. Mean±s.d.		1.9±0.4	0.1±0.3
07-08-00	327	2.0 ± 0.3; 0.5	-0.3 ± 0.3; 0.3
07-14-00	253	2.0 ± 0.4; 0.6	-
07-21-00	278	2.0 ± 0.3; 0.5	0.7 ± 0.3; 0.3
07-28-00	285	2.2 ± 0.3; 0.5	-
08-04-00	282	2.1 ± 0.3; 0.5	0.2 ± 0.4; 0.4
08-11-00	283	2.1 ± 0.3; 0.5	-
08-20-00	370	2.6 ± 0.3; 0.5	0.0 ± 0.3; 0.3
08-25-00	208	2.8 ± 0.4; 0.7	-
09-01-00	276	3.8 ± 0.4; 0.8	0.2 ± 0.5; 0.5
09-08-00	285	2.2 ± 0.3; 0.5	-
09-14-00	244	1.5 ± 0.3; 0.4	-0.7 ± 0.5; 0.5
09-22-00	326	2.9 ± 0.3; 0.6	-
09-29-00	288	1.8 ± 0.3; 0.4	0.2 ± 0.4; 0.4
3rd Qtr. Mean±s.d.		2.3±0.6	0.0±0.4
10-06-00	282	2.6 ± 0.4; 0.6	-
10-13-00	284	2.6 ± 0.3; 0.6	-0.6 ± 0.5; 0.5
10-20-00	286	3.7 ± 0.4; 0.8	-
10-27-00	280	4.9 ± 0.4; 1.0	-0.3 ± 0.5; 0.5
11-03-00	290	2.3 ± 0.4; 0.6	-
11-10-00	281	2.4 ± 0.3; 0.6	0.2 ± 0.4; 0.4
11-17-00	285	3.5 ± 0.4; 0.8	-
11-24-00	287	3.0 ± 0.4; 0.7	0.6 ± 0.4; 0.4
12-01-00	284	4.5 ± 0.5; 0.9	-
12-08-00	284	1.8 ± 0.3; 0.4	0.3 ± 0.4; 0.4
12-15-00	280	3.7 ± 0.4; 0.8	-
12-22-00	290	3.5 ± 0.4; 0.7	-0.3 ± 0.4; 0.4
12-29-00	286	4.0 ± 0.4; 0.8	-
4th Qtr. Mean±s.d.		3.3±0.9	-0.0±0.5

[a] Volume based on a two week collection period.

Table 1. Airborne Particulates and Iodine Cartridges

Collection: Airborne Particulates - Continuous; weekly exchange
Iodine cartridges - Continuous; biweekly exchange

ODCM-Required LLDs: Gross Beta = 0.01, I-131 = 0.07 pCi/m^3

Units: 10^{-2} pCi/m^3

D-53 Grundy County Road

Date Collected	Volume (m^3)	Gross Beta	I-131[a]	Date Collected	Volume (m^3)	Gross Beta	I-131[a]
01-08-00	327	4.1 ± 0.4; 0.8	-0.2 ± 0.5; 0.5	07-08-00	331	1.3 ± 0.3; 0.4	-0.3 ± 0.3; 0.3
01-15-00	280	3.1 ± 0.4; 0.7	-	07-14-00	227	1.7 ± 0.4; 0.5	-
01-21-00	242	4.5 ± 0.5; 0.9	0.2 ± 0.4; 0.4	07-21-00	297	1.6 ± 0.3; 0.4	-0.3 ± 0.3; 0.3
01-28-00	285	4.7 ± 0.4; 1.0	-	07-28-00	283	2.1 ± 0.3; 0.5	-
02-04-00	289	3.2 ± 0.4; 0.7	0.0 ± 0.4; 0.4	08-04-00	286	2.2 ± 0.3; 0.5	0.0 ± 0.3; 0.3
02-11-00	281	3.5 ± 0.4; 0.8	-	08-11-00	279	2.6 ± 0.4; 0.6	-
02-18-00	286	2.4 ± 0.4; 0.6	-0.3 ± 0.4; 0.5	08-20-00	370	2.3 ± 0.3; 0.5	-0.2 ± 0.3; 0.3
02-25-00	283	2.4 ± 0.4; 0.6	-	08-25-00	209	3.5 ± 0.5; 0.8	-
03-03-00	296	1.3 ± 0.3; 0.4	0.2 ± 0.5; 0.5	09-01-00	283	3.8 ± 0.4; 0.8	-0.7 ± 0.5; 0.5
03-10-00	275	2.0 ± 0.4; 0.5	-	09-08-00	283	2.4 ± 0.3; 0.5	-
03-17-00	278	2.7 ± 0.4; 0.6	-0.3 ± 0.5; 0.5	09-14-00	252	1.6 ± 0.3; 0.4	-0.4 ± 0.4; 0.4
03-24-00	293	1.7 ± 0.3; 0.4	-	09-22-00	320	2.7 ± 0.3; 0.6	-
03-31-00	288	1.2 ± 0.3; 0.4	0.4 ± 0.4; 0.4	09-29-00	293	1.6 ± 0.3; 0.4	0.2 ± 0.3; 0.3
1st Qtr. Mean±s.d.		2.8±1.2	-0.0±0.3	3rd Qtr. Mean±s.d.		2.3±0.8	-0.2±0.3
04-07-00	273	2.6 ± 0.4; 0.6	-	10-06-00	281	2.7 ± 0.4; 0.6	-
04-14-00	282	2.2 ± 0.3; 0.5	-0.1 ± 0.5; 0.5	10-13-00	282	2.7 ± 0.4; 0.6	-0.2 ± 0.5; 0.5
04-21-00	279	1.6 ± 0.4; 0.5	-	10-20-00	285	4.1 ± 0.4; 0.8	-
04-28-00	287	2.1 ± 0.3; 0.5	-0.7 ± 0.4; 0.4	10-27-00	279	5.4 ± 0.5; 1.1	0.2 ± 0.5; 0.5
05-04-00	241	1.9 ± 0.4; 0.5	-	11-03-00	291	3.1 ± 0.4; 0.7	-
05-12-00	327	2.8 ± 0.4; 0.6	-0.5 ± 0.5; 0.5	11-10-00	290	2.5 ± 0.3; 0.6	0.1 ± 0.4; 0.4
05-19-00	288	1.9 ± 0.4; 0.5	-	11-17-00	285	3.1 ± 0.4; 0.7	-
05-26-00	283	1.9 ± 0.3; 0.5	0.8 ± 0.3; 0.3	11-24-00	287	3.0 ± 0.4; 0.7	-0.0 ± 0.4; 0.4
06-02-00	287	1.7 ± 0.3; 0.4	-	12-01-00	284	4.1 ± 0.5; 0.9	-
06-09-00	283	1.8 ± 0.4; 0.5	0.1 ± 0.3; 0.3	12-08-00	284	1.9 ± 0.3; 0.5	0.6 ± 0.4; 0.4
06-16-00	282	1.7 ± 0.3; 0.4	-	12-15-00	282	3.0 ± 0.4; 0.7	-
06-23-00	286	1.3 ± 0.3; 0.4	0.1 ± 0.4; 0.4	12-22-00	291	4.2 ± 0.4; 0.9	-0.0 ± 0.4; 0.4
06-30-00	277	1.3 ± 0.3; 0.4	-	12-29-00	290	4.1 ± 0.4; 0.8	-
2nd Qtr. Mean±s.d.		1.9±0.4	-0.1±0.6	4th Qtr. Mean±s.d.		3.4±0.9	0.1±0.3

[a] Volume based on a two week collection period.

Table 2. Airborne Particulates

Collection: Quarterly composites of weekly collections

ODCM-Required LLDs: Cs-134 = 0.01, Cs-137 = 0.01 pCi/m^3

Other LLDs: Mn-54 = 0.01; Fe-59 = 0.015; Co-58, Co-60 = 0.01; Zn-65 = 0.04; Zr/Nb-95 = 0.01; Ba/La-140 = 0.025 pCi/m^3

Units: 10^{-4} pCi/m^3

Sample Description and Concentration

D-01 Onsite Station 1

2000 Collection Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Lab Code	CDAP-2639	CDAP-5438	CDAP-8379	CDAP-10853
Volume	3,700	3,711	3,709	3,684
Mn-54	-2.1 ± 4.9; 4.9	0.5 ± 5.5; 5.5	1.7 ± 3.8; 3.8	8.8 ± 5.7; 5.9
Fe-59	5.0 ± 10.6; 10.6	4.9 ± 9.8; 9.9	19.0 ± 11.8; 12.3	1.4 ± 16.5; 16.5
Co-58	0.7 ± 4.4; 4.4	4.2 ± 4.5; 4.5	0.5 ± 3.9; 3.9	0.5 ± 5.1; 5.1
Co-60	-1.5 ± 5.3; 5.3	0.8 ± 6.2; 6.2	9.8 ± 5.0; 5.3	5.1 ± 6.3; 6.4
Zn-65	3.5 ± 7.7; 7.7	11.4 ± 11.6; 11.8	-9.9 ± 11.0; 11.2	8.1 ± 13.5; 13.6
Zr/Nb-95	-5.3 ± 6.5; 6.6	-26.4 ± 11.5; 12.4	-4.2 ± 7.5; 7.5	-0.7 ± 4.6; 4.6
Cs-134	-8.5 ± 4.6; 4.9	1.9 ± 4.8; 4.9	3.2 ± 4.6; 4.6	7.1 ± 6.6; 6.7
Cs-137	-0.7 ± 4.9; 4.9	0.2 ± 5.0; 5.0	0.7 ± 4.2; 4.2	-2.7 ± 6.2; 6.3
Ba/La-140	-29.8 ± 5.6; 7.7	-19.3 ± 7.1; 7.9	-12.2 ± 6.1; 6.5	-22.2 ± 5.5; 6.8

D-02 Onsite Station 2

2000 Collection Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Lab Code	CDAP-2640	CDAP-5439	CDAP-8380	CDAP-10854
Volume	3,710	3,705	3,724	3,704
Mn-54	-2.2 ± 5.1; 5.1	-0.9 ± 5.1; 5.1	4.0 ± 4.5; 4.5	-1.5 ± 5.9; 5.9
Fe-59	6.6 ± 9.1; 9.2	25.5 ± 11.3; 12.2	3.8 ± 13.1; 13.1	17.2 ± 9.6; 10.1
Co-58	5.3 ± 3.6; 3.8	-6.2 ± 6.0; 6.1	4.8 ± 4.4; 4.5	3.4 ± 5.6; 5.6
Co-60	-2.3 ± 6.1; 6.1	1.3 ± 5.7; 5.7	5.6 ± 4.9; 5.0	-2.4 ± 7.3; 7.3
Zn-65	3.5 ± 7.7; 7.7	0.9 ± 14.5; 14.5	4.4 ± 7.4; 7.5	2.0 ± 12.0; 12.0
Zr/Nb-95	-13.7 ± 5.0; 5.6	2.4 ± 10.8; 10.8	-4.8 ± 4.5; 4.6	-7.0 ± 6.5; 6.6
Cs-134	7.0 ± 4.2; 4.4	2.3 ± 6.3; 6.4	3.6 ± 4.7; 4.7	8.9 ± 5.2; 5.4
Cs-137	2.3 ± 5.3; 5.3	-2.8 ± 5.2; 5.2	0.9 ± 4.7; 4.7	0.1 ± 6.2; 6.2
Ba/La-140	-9.7 ± 5.5; 5.7	-26.1 ± 6.8; 8.2	19.5 ± 3.0; 4.6	-68.0 ± 11.5; 16.7

Table 2. Airborne Particulates

Collection: Quarterly composites of weekly collections

ODCM-

Required LLDs: Cs-134 = 0.01, Cs-137 = 0.01 pCi/m^3

Other LLDs: Mn-54 = 0.01; Fe-59 = 0.015; Co-58, Co-60 = 0.01; Zn-65 = 0.04; Zr/Nb-95 = 0.01; Ba/La-140 = 0.025 pCi/m^3

Units: 10^{-4} pCi/m^3

Sample Description and Concentration

D-03 Onsite Station 3

2000 Collection Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Lab Code	CDAP-2641	CDAP-5440	CDAP-8381,2	CDAP-10855
Volume	3,708	3,706	3,710	3,718
Mn-54	0.4 ± 4.5; 4.5	-1.2 ± 4.2; 4.2	2.3 ± 3.2; 3.3	-2.3 ± 7.2; 7.2
Fe-59	-4.6 ± 10.8; 10.9	1.3 ± 6.7; 6.7	-4.6 ± 7.3; 7.3	4.4 ± 4.8; 4.9
Co-58	4.3 ± 3.8; 3.8	1.1 ± 3.5; 3.5	-0.9 ± 3.0; 3.0	4.2 ± 6.9; 6.9
Co-60	2.8 ± 5.1; 5.1	1.5 ± 4.6; 4.6	3.8 ± 3.7; 3.7	-0.6 ± 6.2; 6.2
Zn-65	-3.5 ± 11.6; 11.6	1.0 ± 9.8; 9.8	-0.5 ± 6.2; 6.2	-12.1 ± 13.4; 13.6
Zr/Nb-95	-4.9 ± 5.1; 5.2	-4.6 ± 4.0; 4.1	0.8 ± 4.9; 4.9	-16.2 ± 6.7; 7.3
Cs-134	-0.3 ± 5.4; 5.4	0.4 ± 4.0; 4.0	2.8 ± 3.7; 3.7	3.4 ± 7.9; 7.9
Cs-137	2.7 ± 3.8; 3.8	3.9 ± 4.1; 4.1	-3.1 ± 3.4; 3.5	7.8 ± 5.2; 5.4
Ba/La-140	-34.6 ± 6.4; 8.9	-23.4 ± 7.4; 8.5	18.6 ± 3.8; 5.1	-146.6 ± 9.6; 27.8

D-04 Collins Road

2000 Collection Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Lab Code	CDAP-2642	CDAP-5441	CDAP-8383	CDAP-10856
Volume	3,702	3,712	3,716	3,712
Mn-54	0.4 ± 4.9; 4.9	-1.4 ± 4.6; 4.6	-2.7 ± 4.8; 4.8	-5.0 ± 7.4; 7.5
Fe-59	-14.7 ± 9.4; 9.7	-8.8 ± 8.9; 9.1	1.5 ± 12.9; 12.9	-24.5 ± 16.1; 16.7
Co-58	-0.1 ± 3.8; 3.8	-2.4 ± 4.0; 4.0	-5.7 ± 4.3; 4.4	6.7 ± 5.3; 5.4
Co-60	4.6 ± 4.9; 5.0	6.9 ± 5.0; 5.2	0.4 ± 5.1; 5.1	2.4 ± 8.4; 8.5
Zn-65	5.9 ± 10.9; 10.9	-5.9 ± 9.7; 9.8	-16.6 ± 11.7; 12.1	10.1 ± 7.9; 8.1
Zr/Nb-95	5.1 ± 4.6; 4.7	-21.7 ± 10.0; 10.7	-5.0 ± 6.9; 6.9	0.5 ± 5.4; 5.4
Cs-134	2.0 ± 5.9; 5.9	-2.4 ± 5.1; 5.1	2.7 ± 4.9; 4.9	3.0 ± 5.4; 5.5
Cs-137	3.2 ± 4.4; 4.4	3.7 ± 4.4; 4.5	3.8 ± 5.3; 5.4	2.9 ± 6.1; 6.2
Ba/La-140	-5.3 ± 4.5; 4.6	-4.0 ± 6.2; 6.2	-16.4 ± 4.5; 5.4	9.7 ± 7.2; 7.4

Table 2. Airborne Particulates

Collection: Quarterly composites of weekly collections

ODCM-

Required LLDs: Cs-134 = 0.01, Cs-137 = 0.01 pCi/m^3

Other LLDs: Mn-54 = 0.01; Fe-59 = 0.015; Co-58, Co-60 = 0.01; Zn-65 = 0.04; Zr/Nb-95 = 0.01; Ba/La-140 = 0.025 pCi/m^3

Units: 10^{-4} pCi/m^3

Sample Description and Concentration

D-07 Clay Products

2000 Collection Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Lab Code	CDAP-2643	CDAP-5442	CDAP-8384	CDAP-10857
Volume	3,711	3,733	3,708	3,696
Mn-54	1.3 ± 4.3; 4.3	1.7 ± 4.5; 4.5	-0.2 ± 4.6; 4.6	4.2 ± 6.3; 6.4
Fe-59	-20.0 ± 11.5; 12.1	-2.9 ± 7.6; 7.6	-29.1 ± 15.2; 16.1	-3.0 ± 15.7; 15.7
Co-58	-2.9 ± 3.3; 3.4	0.4 ± 4.1; 4.1	-1.7 ± 3.9; 4.0	-4.0 ± 6.4; 6.5
Co-60	4.8 ± 5.9; 5.9	4.4 ± 5.6; 5.7	0.4 ± 5.2; 5.2	-4.2 ± 8.2; 8.2
Zn-65	-8.4 ± 9.2; 9.3	5.4 ± 9.2; 9.3	2.8 ± 8.4; 8.4	9.1 ± 11.1; 11.2
Zr/Nb-95	8.5 ± 4.3; 4.5	-6.6 ± 4.8; 4.9	-5.4 ± 5.4; 5.5	-7.8 ± 7.5; 7.6
Cs-134	-3.2 ± 5.1; 5.2	-0.2 ± 4.6; 4.6	-2.4 ± 4.7; 4.7	-0.4 ± 5.5; 5.5
Cs-137	3.8 ± 4.9; 4.9	4.3 ± 4.9; 4.9	1.2 ± 3.3; 3.3	0.7 ± 6.9; 6.9
Ba/La-140	6.6 ± 5.1; 5.2	-24.0 ± 6.3; 7.6	4.1 ± 4.0; 4.1	23.4 ± 3.8; 5.6

D-12 (C) Lisbon

2000 Collection Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Lab Code	CDAP-2644	CDAP-5443	CDAP-8385	CDAP-10858
Volume	3,714	3,668	3,718	3,703
Mn-54	5.6 ± 4.6; 4.7	-0.6 ± 4.4; 4.4	4.4 ± 5.2; 5.3	4.2 ± 6.3; 6.4
Fe-59	-4.7 ± 10.8; 10.9	2.1 ± 10.8; 10.8	5.4 ± 9.8; 9.9	18.8 ± 15.1; 15.4
Co-58	2.1 ± 4.5; 4.5	-3.3 ± 4.2; 4.3	4.4 ± 4.1; 4.2	-1.0 ± 6.8; 6.8
Co-60	0.5 ± 5.7; 5.7	-1.2 ± 6.5; 6.5	7.3 ± 5.7; 5.9	-6.0 ± 9.0; 9.1
Zn-65	1.5 ± 9.3; 9.3	-4.8 ± 11.2; 11.2	8.3 ± 9.4; 9.6	13.2 ± 12.2; 12.4
Zr/Nb-95	-4.6 ± 7.0; 7.1	0.9 ± 4.2; 4.2	6.7 ± 3.7; 3.9	-21.3 ± 7.3; 8.2
Cs-134	1.7 ± 3.9; 3.9	1.2 ± 4.5; 4.5	2.2 ± 4.8; 4.8	8.7 ± 6.9; 7.0
Cs-137	0.7 ± 4.7; 4.7	-3.7 ± 4.9; 5.0	-5.8 ± 5.6; 5.7	2.9 ± 6.2; 6.2
Ba/La-140	-9.9 ± 5.5; 5.7	2.3 ± 6.3; 6.3	-13.2 ± 7.1; 7.5	-52.3 ± 7.7; 12.1

Table 2. Airborne Particulates

Collection: Quarterly composites of weekly collections

ODCM-Required LLDs: Cs-134 = 0.01, Cs-137 = 0.01 pCi/m^3

Other LLDs: Mn-54 = 0.01; Fe-59 = 0.015; Co-58, Co-60 = 0.01; Zn-65 = 0.04; Zr/Nb-95 = 0.01; Ba/La-140 = 0.025 pCi/m^3

Units: 10^{-4} pCi/m^3

Sample Description and Concentration

D-45 McKinley Woods Road

2000 Collection Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Lab Code	CDAP-2645	CDAP-5444	CDAP-8386	CDAP-10859
Volume	3,703	3,692	3,712	3,706
Mn-54	-8.1 ± 4.5; 4.7	4.1 ± 4.2; 4.3	-1.0 ± 5.0; 5.0	-8.4 ± 6.0; 6.2
Fe-59	-6.4 ± 12.1; 12.1	-0.9 ± 11.5; 11.5	15.0 ± 12.9; 13.1	-7.5 ± 14.9; 15.0
Co-58	-1.2 ± 4.1; 4.1	4.8 ± 4.4; 4.5	-2.2 ± 3.9; 3.9	5.6 ± 5.9; 6.0
Co-60	4.6 ± 4.9; 5.0	1.8 ± 5.6; 5.6	-0.4 ± 6.6; 6.6	3.3 ± 7.3; 7.3
Zn-65	-0.5 ± 8.9; 8.9	6.2 ± 10.2; 10.3	4.4 ± 7.5; 7.5	6.1 ± 13.0; 13.0
Zr/Nb-95	-6.9 ± 8.3; 8.4	8.7 ± 5.1; 5.4	1.2 ± 4.3; 4.3	-1.0 ± 5.3; 5.3
Cs-134	8.5 ± 5.3; 5.5	0.3 ± 4.7; 4.7	-2.5 ± 5.3; 5.3	7.2 ± 5.7; 5.8
Cs-137	3.5 ± 5.6; 5.6	0.1 ± 5.0; 5.0	4.9 ± 4.3; 4.4	-2.0 ± 6.3; 6.3
Ba/La-140	-14.0 ± 5.3; 5.9	-27.1 ± 5.8; 7.6	-39.2 ± 7.3; 10.1	-90.8 ± 9.1; 18.6

D-53 Grundy County Road

2000 Collection Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Lab Code	CDAP-2646	CDAP-5445	CDAP-8387	CDAP-10860
Volume	3,711	3,682	3,720	3,716
Mn-54	3.8 ± 3.8; 3.8	-1.8 ± 4.3; 4.3	-0.8 ± 5.4; 5.4	0.8 ± 6.4; 6.4
Fe-59	-8.8 ± 10.2; 10.3	-4.0 ± 7.1; 7.1	3.1 ± 9.5; 9.5	-11.3 ± 18.3; 18.4
Co-58	-2.5 ± 3.7; 3.7	-8.3 ± 4.0; 4.3	-1.7 ± 3.9; 3.9	3.5 ± 5.5; 5.6
Co-60	0.4 ± 5.2; 5.2	-1.9 ± 5.4; 5.4	-0.1 ± 5.6; 5.6	2.3 ± 7.1; 7.1
Zn-65	-8.9 ± 9.9; 10.0	-1.3 ± 10.4; 10.4	2.8 ± 10.4; 10.5	14.1 ± 14.6; 14.8
Zr/Nb-95	-7.2 ± 4.7; 4.8	9.0 ± 3.7; 4.0	-6.2 ± 4.2; 4.3	-3.3 ± 10.2; 10.2
Cs-134	-1.7 ± 4.3; 4.3	5.6 ± 4.7; 4.8	-5.3 ± 5.1; 5.2	2.6 ± 7.8; 7.8
Cs-137	-1.5 ± 5.3; 5.3	4.0 ± 4.3; 4.3	5.8 ± 4.9; 5.0	1.2 ± 7.5; 7.5
Ba/La-140	-6.9 ± 6.5; 6.7	-1.9 ± 5.2; 5.2	8.5 ± 5.7; 5.9	22.2 ± 7.7; 8.6

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Table 3. Milk

Collection: Biweekly (May - October)
Monthly (November - April)

ODCM-Required LLDs: I-131 = 0.5 pCi/L (May - October), I-131= 5 pCi/L (November - April), Cs-134 = 15, Cs-137 = 18, Ba/La-140 = 15 pCi/L

Other LLDs: Mn-54 = 10; Fe-59 = 15; Co-58, Co-60 = 10; Zn-65 = 15; Zr/Nb-95 = 10 pCi/L

Units: pCi/L

Sample Description and Concentration

D-25 (C) Vince Biros Farm

Date Collected	01-07-00	02-04-00	03-02-00	04-06-00
Lab Code	CDMI-126	CDMI-600	CDMI-1118	CDMI-2030
I-131	0.12 ± 0.21; 0.21	-0.35 ± 0.23; 0.24	0.07 ± 0.15; 0.15	-0.07 ± 0.19; 0.19
Mn-54	0.8 ± 3.2; 3.2	-0.6 ± 1.7; 1.7	-1.5 ± 2.7; 2.7	1.9 ± 4.1; 4.1
Fe-59	-13.0 ± 7.2; 7.4	2.2 ± 3.1; 3.1	0.7 ± 5.6; 5.6	-4.1 ± 7.5; 7.5
Co-58	1.1 ± 3.2; 3.2	0.5 ± 1.7; 1.7	-0.4 ± 2.3; 2.3	-1.1 ± 3.8; 3.8
Co-60	-5.4 ± 4.3; 4.4	-0.5 ± 1.7; 1.7	2.0 ± 2.5; 2.5	2.7 ± 4.2; 4.2
Zn-65	0.9 ± 6.9; 6.9	0.3 ± 3.7; 3.7	-18.1 ± 7.2; 7.6	0.3 ± 8.9; 8.9
Zr/Nb-95	3.2 ± 3.1; 3.1	0.6 ± 1.6; 1.6	-1.1 ± 2.6; 2.7	-1.6 ± 4.6; 4.6
Cs-134	-0.5 ± 3.3; 3.3	-0.7 ± 1.8; 1.8	-2.3 ± 2.6; 2.6	0.5 ± 4.3; 4.3
Cs-137	-1.3 ± 3.1; 3.1	1.1 ± 1.6; 1.6	-0.3 ± 2.5; 2.5	-1.1 ± 3.9; 3.9
Ba/La-140	-0.4 ± 2.2; 2.2	-1.1 ± 1.8; 1.8	-2.4 ± 2.3; 2.3	4.8 ± 3.6; 3.7

Date Collected	05-04-00	05-18-00	06-01-00	06-15-00
Lab Code	CDMI-3031	CDMI-3452	CDMI-3664	CDMI-4014
I-131	0.03 ± 0.17; 0.17	0.00 ± 0.18; 0.18	-0.06 ± 0.21; 0.21	0.07 ± 0.17; 0.17
Mn-54	-1.8 ± 4.1; 4.1	-1.2 ± 3.5; 3.5	0.5 ± 1.8; 1.8	1.3 ± 2.1; 2.1
Fe-59	-4.9 ± 10.4; 10.4	4.6 ± 7.4; 7.5	3.7 ± 3.5; 3.6	-1.0 ± 5.4; 5.4
Co-58	1.5 ± 3.1; 3.1	1.5 ± 3.3; 3.3	-0.3 ± 1.6; 1.6	-0.5 ± 2.0; 2.0
Co-60	-3.0 ± 4.5; 4.6	-0.4 ± 3.9; 3.9	-0.4 ± 2.3; 2.3	-1.4 ± 2.6; 2.6
Zn-65	-7.3 ± 9.9; 10.0	4.7 ± 7.2; 7.3	-0.7 ± 4.1; 4.1	-2.9 ± 5.5; 5.6
Zr/Nb-95	0.5 ± 3.4; 3.4	1.8 ± 2.8; 2.8	0.5 ± 1.9; 1.9	-0.8 ± 2.5; 2.5
Cs-134	1.1 ± 3.3; 3.3	-1.4 ± 3.3; 3.3	2.2 ± 2.0; 2.1	-0.1 ± 2.3; 2.3
Cs-137	0.3 ± 3.3; 3.3	1.5 ± 2.9; 2.9	1.1 ± 1.6; 1.6	-2.2 ± 2.3; 2.3
Ba/La-140	-2.8 ± 4.6; 4.6	0.6 ± 3.1; 3.1	-0.8 ± 1.9; 1.9	-0.7 ± 1.8; 1.8

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Table 3. Milk

Collection:	Biweekly (May - October) Monthly (November - April)
ODCM-Required LLDs:	I-131 = 0.5 pCi/L (May - October), I-131= 5 pCi/L (November - April), Cs-134 = 15, Cs-137 = 18, Ba/La-140 = 15 pCi/L
Other LLDs:	Mn-54 = 10; Fe-59 = 15; Co-58, Co-60 = 10; Zn-65 = 15; Zr/Nb-95 = 10 pCi/L
Units:	pCi/L

Sample Description and Concentration

D-25 (C) Vince Biros Farm

Date Collected	06-29-00	07-13-00	07-27-00	08-10-00
Lab Code	CDMI-4454	CDMI-4994	CDMI-5467	CDMI-5824
I-131	0.12 ± 0.17; 0.18	-0.07 ± 0.18; 0.18	-0.20 ± 0.18; 0.19	0.01 ± 0.16; 0.16
Mn-54	2.4 ± 3.1; 3.1	-0.5 ± 1.2; 1.2	-0.5 ± 1.2; 1.2	1.3 ± 3.0; 3.0
Fe-59	1.8 ± 6.1; 6.1	0.6 ± 2.5; 2.5	0.6 ± 2.5; 2.5	-3.4 ± 7.4; 7.4
Co-58	1.6 ± 2.7; 2.7	-0.3 ± 1.2; 1.2	-0.3 ± 1.2; 1.2	1.1 ± 2.7; 2.7
Co-60	0.9 ± 3.8; 3.8	0.4 ± 1.5; 1.5	0.4 ± 1.5; 1.5	1.0 ± 3.2; 3.2
Zn-65	1.3 ± 6.3; 6.3	-0.1 ± 3.0; 3.0	-0.1 ± 3.0; 3.0	-2.3 ± 7.2; 7.2
Zr/Nb-95	-0.7 ± 3.0; 3.0	0.6 ± 1.4; 1.4	0.6 ± 1.4; 1.4	3.4 ± 2.7; 2.8
Cs-134	-3.1 ± 3.3; 3.3	0.0 ± 1.4; 1.4	0.0 ± 1.4; 1.4	-0.4 ± 3.3; 3.3
Cs-137	0.0 ± 2.8; 2.8	0.2 ± 1.2; 1.2	0.2 ± 1.2; 1.2	-2.8 ± 2.9; 2.9
Ba/La-140	-5.4 ± 3.3; 3.3	-1.2 ± 1.3; 1.3	-1.2 ± 1.3; 1.3	0.7 ± 3.2; 3.2

Date Collected	08-24-00	09-07-00	09-21-00	10-05-00
Lab Code	CDMI-6203	CDMI-6527	CDMI-6924	CDMI-7372
I-131	0.07 ± 0.18; 0.18	0.02 ± 0.18; 0.18	-0.02 ± 0.12; 0.12	0.14 ± 0.17; 0.17
Mn-54	-1.4 ± 2.8; 2.8	-0.9 ± 1.8; 1.8	0.0 ± 2.2; 2.2	2.5 ± 2.1; 2.1
Fe-59	-3.0 ± 6.5; 6.5	-2.3 ± 4.0; 4.0	4.3 ± 4.3; 4.3	0.1 ± 4.1; 4.1
Co-58	1.3 ± 2.7; 2.7	-0.2 ± 1.9; 1.9	1.3 ± 1.8; 1.8	0.6 ± 1.7; 1.7
Co-60	-1.6 ± 2.9; 2.9	1.8 ± 1.9; 2.0	2.6 ± 2.5; 2.5	-2.1 ± 2.2; 2.2
Zn-65	-1.1 ± 8.2; 8.2	0.9 ± 4.3; 4.3	-3.5 ± 5.5; 5.6	-0.6 ± 4.3; 4.3
Zr/Nb-95	-3.5 ± 2.9; 2.9	1.0 ± 1.9; 1.9	1.8 ± 1.9; 1.9	0.2 ± 2.0; 2.0
Cs-134	0.0 ± 3.1; 3.1	1.0 ± 2.0; 2.0	0.3 ± 2.1; 2.1	0.8 ± 2.6; 2.6
Cs-137	-0.8 ± 2.5; 2.5	1.0 ± 1.9; 1.9	1.0 ± 1.9; 1.9	-0.2 ± 1.6; 1.6
Ba/La-140	-0.9 ± 2.9; 2.9	-1.2 ± 1.8; 1.9	-0.6 ± 1.5; 1.5	-0.8 ± 1.3; 1.3

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Table 3. Milk

Collection:	Biweekly (May - October) Monthly (November - April)
ODCM-Required LLDs:	I-131 = 0.5 pCi/L (May - October), I-131= 5 pCi/L (November - April), Cs-134 = 15, Cs-137 = 18, Ba/La-140 = 15 pCi/L
Other LLDs:	Mn-54 = 10; Fe-59 = 15; Co-58, Co-60 = 10; Zn-65 = 15; Zr/Nb-95 = 10 pCi/L
Units:	pCi/L

Sample Description and Concentration

D-25 (C) Vince Biros Farm

Date Collected	10-19-00	11-02-00	12-07-00
Lab Code	CDMI-8146	CDMI-8576	CDMI-9661
I-131	-0.00 ± 0.15; 0.15	-0.09 ± 0.19; 0.20	-0.15 ± 0.19; 0.19
Mn-54	-0.3 ± 3.0; 3.0	0.2 ± 3.1; 3.1	-1.5 ± 3.8; 3.8
Fe-59	3.0 ± 6.9; 6.9	8.4 ± 6.5; 6.6	0.9 ± 6.5; 6.5
Co-58	2.3 ± 2.8; 2.8	1.7 ± 3.3; 3.3	-1.2 ± 3.4; 3.4
Co-60	1.5 ± 4.3; 4.3	-1.7 ± 3.1; 3.1	-2.2 ± 4.2; 4.2
Zn-65	-2.4 ± 7.7; 7.7	-3.0 ± 7.2; 7.2	-7.2 ± 8.7; 8.7
Zr/Nb-95	1.8 ± 3.2; 3.2	0.3 ± 2.8; 2.8	1.4 ± 3.8; 3.9
Cs-134	-1.5 ± 3.7; 3.7	-2.2 ± 3.6; 3.6	-2.6 ± 3.6; 3.6
Cs-137	0.7 ± 2.9; 2.9	0.9 ± 2.7; 2.7	1.8 ± 3.0; 3.0
Ba/La-140	1.7 ± 3.6; 3.6	-2.3 ± 3.0; 3.1	0.4 ± 3.2; 3.2

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Table 4. Fish, Edible Portions

Collection: Semiannually

ODCM-Required LLDs: Mn-54 = 0.13, Fe-59 = 0.26, Co-58 = 0.13, Co-60 = 0.13, Zn-65 = 0.26, Cs-134 = 0.1, Cs-137 = 0.1 pCi/g wet weight

Other LLDs: Zr/Nb-95 = 0.20, Ba/La-140 = 0.30 pCi/g wet weight

Units: 10^{-2} pCi/g wet weight

Sample Description and Concentration

D-28 Dresden Pool of Illinois River

Date Collected	05-08-00	05-08-00	05-08-00	05-08-00
Lab Code	CDF-3117	CDF-3118	CDF-3119	CDF-3120
Type	Carp	Largemouth Bass	Smallmouth Bass	Gizzard Shad
Mn-54	-0.4 ± 0.7; 0.7	0.7 ± 0.8; 0.8	0.0 ± 0.7; 0.7	0.0 ± 0.4; 0.4
Fe-59	-0.4 ± 1.5; 1.5	-2.8 ± 1.5; 1.5	0.2 ± 1.5; 1.5	0.4 ± 0.9; 0.9
Co-58	0.6 ± 0.7; 0.7	0.1 ± 0.8; 0.8	-0.2 ± 0.6; 0.6	0.8 ± 0.4; 0.4
Co-60	0.9 ± 0.8; 0.8	-0.6 ± 1.0; 1.0	-0.5 ± 0.8; 0.8	1.0 ± 0.5; 0.6
Zn-65	0.5 ± 1.8; 1.8	0.5 ± 1.9; 1.9	0.7 ± 1.6; 1.6	0.4 ± 0.9; 0.9
Zr/Nb-95	-0.6 ± 0.7; 0.7	0.1 ± 0.7; 0.7	0.1 ± 0.6; 0.6	0.0 ± 0.4; 0.4
Cs-134	0.4 ± 0.8; 0.8	-0.1 ± 0.9; 0.9	0.1 ± 0.7; 0.7	0.2 ± 0.4; 0.4
Cs-137	-0.6 ± 0.6; 0.6	0.5 ± 0.8; 0.8	0.6 ± 0.6; 0.6	0.3 ± 0.4; 0.4
Ba/La-140	0.4 ± 0.8; 0.8	0.4 ± 0.7; 0.7	0.4 ± 0.7; 0.7	0.6 ± 0.4; 0.4

Date Collected	10-19-00	10-19-00	10-19-00	10-19-00
Lab Code	CDF-8126	CDF-8127	CDF-8128	CDF-8130
Type	Carp	Gizzard Shad	Smallmouth Buffalo	Largemouth Bass
Mn-54	0.3 ± 0.6; 0.6	-0.5 ± 0.6; 0.6	-0.0 ± 0.5; 0.5	-0.0 ± 0.7; 0.7
Fe-59	-0.2 ± 1.3; 1.3	1.3 ± 1.2; 1.2	0.7 ± 0.9; 0.9	0.7 ± 1.5; 1.5
Co-58	0.6 ± 0.5; 0.5	-0.1 ± 0.7; 0.7	0.3 ± 0.4; 0.4	0.3 ± 0.6; 0.7
Co-60	-0.1 ± 0.9; 0.9	0.1 ± 0.7; 0.7	0.0 ± 0.5; 0.5	-0.9 ± 0.9; 0.9
Zn-65	-0.4 ± 1.3; 1.3	0.1 ± 1.6; 1.6	-0.1 ± 1.2; 1.2	-0.1 ± 1.8; 1.8
Zr/Nb-95	0.6 ± 0.6; 0.6	-0.6 ± 0.7; 0.7	-0.1 ± 0.5; 0.5	0.1 ± 0.6; 0.6
Cs-134	-0.4 ± 0.7; 0.7	0.4 ± 0.7; 0.7	-0.1 ± 0.5; 0.5	0.4 ± 0.8; 0.8
Cs-137	0.3 ± 0.6; 0.6	-0.1 ± 0.5; 0.5	-0.1 ± 0.5; 0.5	0.3 ± 0.7; 0.7
Ba/La-140	-0.6 ± 0.6; 0.6	0.3 ± 0.4; 0.4	-0.5 ± 0.4; 0.4	1.5 ± 0.7; 0.7

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Table 4. Fish, Edible Portions

Collection: Semiannually

ODCM-Required LLDs: Mn-54 = 0.13, Fe-59 = 0.26, Co-58 = 0.13, Co-60 = 0.13, Zn-65 = 0.26, Cs-134 = 0.1, Cs-137 = 0.1 pCi/g wet weight

Other LLDs: Zr/Nb-95 = 0.20, Ba/La-140 = 0.30 pCi/g wet weight

Units: 10^{-2} pCi/g wet weight

Sample Description and Concentration

D-28 Dresden Pool of Illinois River

Date Collected	10-19-00
Lab Code	CDF-8131
Type	Channel Catfish
Mn-54	-1.1 ± 0.8; 0.8
Fe-59	1.3 ± 2.0; 2.0
Co-58	-0.1 ± 0.9; 0.9
Co-60	-0.4 ± 1.3; 1.3
Zn-65	-0.4 ± 2.5; 2.5
Zr/Nb-95	0.6 ± 0.9; 0.9
Cs-134	-0.7 ± 1.0; 1.0
Cs-137	0.3 ± 0.9; 0.9
Ba/La-140	0.7 ± 0.7; 0.7

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Table 4. Fish, Edible Portions

Collection: Semiannually

ODCM-Required LLDs: Mn-54 = 0.13, Fe-59 = 0.26, Co-58 = 0.13, Co-60 = 0.13, Zn-65 = 0.26, Cs-134 = 0.1, Cs-137 = 0.1 pCi/g wet weight

Other LLDs: Zr/Nb-95 = 0.20, Ba/La-140 = 0.30 pCi/g wet weight

Units: 10^{-2} pCi/g wet weight

Sample Description and Concentration

D-46 (C) Des Plaines River, Upstream

Date Collected	05-08-00	05-08-00	05-08-00	05-08-00
Lab Code	CDF-3121	CDF-3122	CDF-3123	CDF-3124
Type	Channel Catfish	Carp	Smallmouth Bass	Gizzard Shad
Mn-54	-0.2 ± 0.6; 0.6	-0.2 ± 0.7; 0.7	0.1 ± 0.7; 0.7	-0.1 ± 1.0; 1.0
Fe-59	0.9 ± 1.6; 1.6	1.4 ± 1.7; 1.7	-0.9 ± 1.7; 1.7	0.2 ± 1.8; 1.8
Co-58	0.1 ± 0.6; 0.6	-0.6 ± 0.7; 0.7	0.3 ± 0.6; 0.6	0.4 ± 1.0; 1.0
Co-60	0.5 ± 0.9; 0.9	0.7 ± 1.0; 1.0	-0.4 ± 0.9; 0.9	1.4 ± 1.3; 1.3
Zn-65	-0.3 ± 1.8; 1.8	1.0 ± 1.7; 1.7	1.1 ± 1.6; 1.7	0.5 ± 2.5; 2.5
Zr/Nb-95	0.3 ± 0.7; 0.7	-0.2 ± 0.7; 0.7	0.1 ± 0.6; 0.6	-1.0 ± 1.0; 1.0
Cs-134	-0.1 ± 0.9; 0.9	0.5 ± 0.8; 0.8	0.2 ± 0.8; 0.8	0.1 ± 1.1; 1.1
Cs-137	0.8 ± 0.7; 0.7	0.2 ± 0.6; 0.6	0.4 ± 0.8; 0.8	-0.0 ± 0.8; 0.8
Ba/La-140	-2.3 ± 1.0; 1.0	0.4 ± 0.8; 0.8	-2.2 ± 0.9; 0.9	-1.5 ± 1.1; 1.1

Date Collected	10-19-00	10-19-00	10-19-00	10-19-00
Lab Code	CDF-8132	CDF-8133	CDF-8134	CDF-8135
Type	Smallmouth Buffalo	Carp	Gizzard Shad	Striped Bass
Mn-54	0.0 ± 0.6; 0.6	0.2 ± 0.3; 0.3	-0.3 ± 1.0; 1.0	0.1 ± 0.7; 0.7
Fe-59	0.6 ± 1.7; 1.7	-0.1 ± 0.6; 0.6	-1.1 ± 2.1; 2.1	0.6 ± 1.3; 1.3
Co-58	-0.2 ± 0.6; 0.6	-0.1 ± 0.3; 0.3	-0.5 ± 1.1; 1.1	0.6 ± 0.7; 0.7
Co-60	0.2 ± 0.9; 0.9	-0.0 ± 0.4; 0.4	-0.4 ± 1.4; 1.4	-0.0 ± 0.7; 0.7
Zn-65	-0.6 ± 1.9; 1.9	-1.0 ± 0.9; 0.9	-0.5 ± 2.6; 2.6	0.1 ± 1.4; 1.4
Zr/Nb-95	-0.3 ± 0.6; 0.6	0.1 ± 0.3; 0.3	-0.5 ± 1.1; 1.1	-0.5 ± 1.4; 1.4
Cs-134	-0.5 ± 0.8; 0.8	0.3 ± 0.3; 0.3	0.7 ± 1.1; 1.2	0.3 ± 0.7; 0.7
Cs-137	-0.1 ± 0.7; 0.7	-0.0 ± 0.3; 0.3	-0.2 ± 0.9; 0.9	0.5 ± 0.7; 0.7
Ba/La-140	-1.5 ± 0.9; 0.9	-0.2 ± 0.3; 0.3	0.9 ± 1.2; 1.2	-0.1 ± 0.7; 0.7

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Table 5. Bottom Sediments

Collection:	Semiannually
ODCM-Required LLDs:	Cs-134 = 0.15, Cs-137 = 0.18 pCi/g dry weight
Other LLDs:	Mn-54 = 0.10; Fe-59 = 0.60; Co-58, Co-60 = 0.10; Zn-65 = 0.60; Zr/Nb-95 = 0.20; Ba/La-40 = 0.60 pCi/g dry weight
Units:	10^{-2} pCi/g dry weight

Sample Description and Concentration

D-27 Dresden Lock & Dam

Date Collected	05-19-00	10-06-00
Lab Code	CDBS-3461	CDBS-7367
Mn-54	0.6 ± 0.7; 0.7	0.1 ± 0.4; 0.4
Fe-59	-1.2 ± 2.2; 2.2	0.6 ± 0.9; 0.9
Co-58	0.2 ± 0.8; 0.8	-0.1 ± 0.4; 0.4
Co-60	-0.1 ± 1.2; 1.2	0.1 ± 0.4; 0.4
Zn-65	0.1 ± 2.0; 2.0	-0.6 ± 1.2; 1.2
Zr/Nb-95	-0.6 ± 1.4; 1.4	-0.8 ± 0.4; 0.4
Cs-134	1.3 ± 1.0; 1.0	0.5 ± 0.4; 0.4
Cs-137	5.1 ± 1.5; 1.6	1.1 ± 0.7; 0.7
Ba/La-140	-2.3 ± 1.0; 1.1	-0.1 ± 0.5; 0.5

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Table 6. Vegetation

Collection: Annually

ODCM-Required LLDs: I-131 = 0.06, Cs-134 = 0.06, Cs-137 = 0.08 pCi/g wet weight

Other LLDs: Mn-54 = 0.05; Fe-59 = 0.10; Co-58, Co-60, Zn-65 = 0.05; Zr/Nb-95 = 0.01; Ba/La-140 = 0.02 pCi/g wet weight

Units: 10^{-2} pCi/g wet weight

Sample Description and Concentration

D-Control Glasscock Farm

Date Collected	08-25-00	08-25-00
Lab Code	CDVE-6190 [a]	CDVE-6191 [a]
Type	Potatoes	Cabbage
I-131		-0.35 ± 0.47; 0.47
Mn-54	0.3 ± 0.5; 0.5	0.0 ± 0.5; 0.5
Fe-59	0.8 ± 1.2; 1.2	1.0 ± 1.1; 1.1
Co-58	-0.0 ± 0.6; 0.6	0.2 ± 0.5; 0.5
Co-60	0.9 ± 0.7; 0.7	0.2 ± 0.5; 0.5
Zn-65	-0.5 ± 1.4; 1.4	0.8 ± 1.2; 1.2
Zr/Nb-95	-0.0 ± 0.6; 0.6	0.1 ± 0.5; 0.5
Cs-134	0.1 ± 0.6; 0.6	-0.0 ± 0.6; 0.6
Cs-137	-0.1 ± 0.6; 0.6	-0.1 ± 0.5; 0.5
Ba/La-140	0.4 ± 0.6; 0.6	-0.2 ± 0.6; 0.6

D-Quad 1 Chris Locknar

Date Collected	08-25-00	08-25-00
Lab Code	CDVE-6304 [a]	CDVE-6305 [a]
Type	Beets	Beet greens
I-131		-0.54 ± 0.39; 0.39
Mn-54	0.3 ± 0.5; 0.5	0.4 ± 0.5; 0.5
Fe-59	-0.6 ± 1.0; 1.0	-0.7 ± 1.2; 1.2
Co-58	-0.1 ± 0.5; 0.5	-0.1 ± 0.4; 0.4
Co-60	0.1 ± 0.6; 0.6	-0.2 ± 0.5; 0.5
Zn-65	1.5 ± 1.2; 1.2	-2.2 ± 1.6; 1.6
Zr/Nb-95	-0.6 ± 0.5; 0.5	-0.7 ± 0.5; 0.5
Cs-134	-0.1 ± 0.6; 0.6	0.1 ± 0.5; 0.5
Cs-137	-0.2 ± 0.5; 0.5	0.2 ± 0.5; 0.5
Ba/La-140	-0.6 ± 0.6; 0.6	0.2 ± 0.3; 0.3

[a] ODCM required. Potatoes, beets = root vegetation; cabbage, beet greens = broad leaf.

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Table 6. Vegetation

Collection: Annually

ODCM-Required LLDs: I-131 = 0.06, Cs-134 = 0.06, Cs-137 = 0.08 pCi/g wet weight

Other LLDs: Mn-54 = 0.05; Fe-59 = 0.10; Co-58, Co-60, Zn-65 = 0.05; Zr/Nb-95 = 0.01; Ba/La-140 = 0.02 pCi/g wet weight

Units: 10^{-2} pCi/g wet weight

Sample Description and Concentration

D-Quad 2 Robert Pagliano

Date Collected	08-25-00	08-25-00
Lab Code	CDVE-6182 [a]	CDVE-6183,4 [a]
Type	Potatoes	Cabbage
I-131		-0.02 ± 0.47; 0.47
Mn-54	0.6 ± 0.8; 0.8	0.4 ± 0.5; 0.5
Fe-59	0.7 ± 1.4; 1.4	0.2 ± 1.0; 1.0
Co-58	-0.5 ± 0.7; 0.7	-0.2 ± 0.5; 0.5
Co-60	0.5 ± 0.8; 0.8	0.5 ± 0.6; 0.6
Zn-65	-0.8 ± 2.0; 2.0	-0.2 ± 1.2; 1.2
Zr/Nb-95	0.1 ± 0.7; 0.7	0.2 ± 0.5; 0.5
Cs-134	0.6 ± 0.9; 0.9	-0.4 ± 0.6; 0.6
Cs-137	0.2 ± 0.6; 0.6	0.3 ± 0.5; 0.5
Ba/La-140	-0.9 ± 0.8; 0.8	-0.2 ± 0.6; 0.6

D-Quad 3 Jim Bloom

Date Collected	08-25-00	08-25-00
Lab Code	CDVE-6185 [a]	CDVE-6186 [a]
Type	Potatoes	Cabbage
I-131		0.45 ± 0.64; 0.65
Mn-54	0.1 ± 0.5; 0.5	0.3 ± 0.6; 0.6
Fe-59	-0.0 ± 0.9; 0.9	-0.1 ± 1.3; 1.3
Co-58	0.2 ± 0.5; 0.5	-0.0 ± 0.7; 0.7
Co-60	0.1 ± 0.5; 0.5	-0.1 ± 0.9; 0.9
Zn-65	0.7 ± 1.2; 1.2	-0.7 ± 1.7; 1.7
Zr/Nb-95	-0.3 ± 0.5; 0.5	-0.2 ± 0.8; 0.8
Cs-134	0.4 ± 0.5; 0.5	0.2 ± 0.7; 0.7
Cs-137	0.1 ± 0.5; 0.5	0.5 ± 0.6; 0.6
Ba/La-140	0.0 ± 0.5; 0.5	0.1 ± 0.6; 0.6

[a] ODCM required. Potatoes = root vegetation; cabbage = broad leaf.

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Table 6. Vegetation

Collection:	Annually
ODCM-Required LLDs:	I-131 = 0.06, Cs-134 = 0.06, Cs-137 = 0.08 pCi/g wet weight
Other LLDs:	Mn-54 = 0.05; Fe-59 = 0.10; Co-58, Co-60, Zn-65 = 0.05; Zr/Nb-95 = 0.01; Ba/La-140 = 0.02 pCi/g wet weight
Units:	10^{-2} pCi/g wet weight

Sample Description and Concentration

D-Quad 4 J.D. Carmichael

Date Collected	08-25-00	08-25-00
Lab Code	CDVE-6187 [a]	CDVE-6188 [a]
Type	Carrots	Onions
I-131		
Mn-54	0.4 ± 0.8; 0.8	0.4 ± 0.5; 0.5
Fe-59	-0.9 ± 1.9; 1.9	0.6 ± 0.8; 0.9
Co-58	0.2 ± 0.7; 0.7	-0.1 ± 0.5; 0.5
Co-60	0.3 ± 1.1; 1.1	0.4 ± 0.6; 0.6
Zn-65	-0.0 ± 2.1; 2.1	-0.6 ± 1.1; 1.1
Zr/Nb-95	1.2 ± 0.7; 0.7	-0.1 ± 0.5; 0.5
Cs-134	-0.2 ± 0.8; 0.8	0.7 ± 0.5; 0.5
Cs-137	0.2 ± 0.8; 0.8	0.4 ± 0.5; 0.5
Ba/La-140	0.6 ± 0.8; 0.8	-0.1 ± 0.5; 0.5

Date Collected	08-25-00
Lab Code	CDVE-6189 [a]
Type	Cabbage
I-131	-0.16 ± 0.75; 0.75
Mn-54	0.3 ± 0.9; 0.9
Fe-59	2.0 ± 1.4; 1.5
Co-58	0.1 ± 0.8; 0.8
Co-60	-0.1 ± 0.9; 0.9
Zn-65	-0.6 ± 1.8; 1.8
Zr/Nb-95	0.5 ± 0.8; 0.8
Cs-134	-0.3 ± 1.0; 1.0
Cs-137	-0.3 ± 0.7; 0.7
Ba/La-140	-1.5 ± 0.9; 1.0

[a] ODCM required. Carrots, onions = root vegetation; cabbage = broad leaf.

Table 7. Surface Water

Collection: Monthly composites of weekly collections

ODCM-Required LLDs: Gross Beta = 4, Mn-54 = 15, Fe-59 = 30, Co-58 = 15, Co-60 = 15, Zn-65 = 30, Zr/Nb-95 = 15, Cs-134 = 15, Cs-137 = 18, Ba/La-140 = 15 pCi/L

Units: pCi/L

Sample Description and Concentration

D-51 Dresden Lock & Dam

2000 Collection Period	January	February	March
Lab Code	CDSW-585	CDSW-1050	CDSW-2082
Gross Beta	5.6 ± 1.9 ; 2.1	6.2 ± 1.8 ; 2.1	4.4 ± 1.7 ; 1.8
Mn-54	2.7 ± 2.2; 2.3	-0.7 ± 1.5; 1.5	-0.6 ± 3.5; 3.5
Fe-59	-1.6 ± 4.2; 4.2	1.0 ± 3.2; 3.2	0.8 ± 6.8; 6.8
Co-58	-1.3 ± 2.5; 2.5	-0.4 ± 1.7; 1.7	2.5 ± 3.7; 3.7
Co-60	0.6 ± 3.2; 3.2	1.1 ± 1.8; 1.8	0.9 ± 4.5; 4.5
Zn-65	0.8 ± 5.0; 5.0	-0.1 ± 3.7; 3.7	-0.4 ± 7.9; 7.9
Zr/Nb-95	-3.2 ± 5.0; 5.1	-2.0 ± 2.0; 2.1	-0.5 ± 3.4; 3.4
Cs-134	-0.5 ± 2.9; 2.9	-0.5 ± 2.0; 2.0	-1.7 ± 4.1; 4.1
Cs-137	-1.8 ± 2.3; 2.3	-0.9 ± 1.9; 1.9	0.6 ± 2.8; 2.8
Ba/La-140	-0.3 ± 2.8; 2.8	-0.8 ± 2.0; 2.0	-3.3 ± 5.0; 5.0

2000 Collection Period	April	May	June
Lab Code	CDSW-3023	CDSW-3904,5	CDSW-4604
Gross Beta	4.7 ± 1.7 ; 1.8	6.6 ± 1.3 ; 1.5	5.8 ± 1.8 ; 2.0
Mn-54	1.4 ± 1.1; 1.1	0.8 ± 1.1; 1.1	-0.0 ± 1.6; 1.6
Fe-59	2.9 ± 2.1; 2.1	-1.4 ± 2.1; 2.1	-1.0 ± 2.6; 2.6
Co-58	-0.1 ± 0.9; 0.9	-0.3 ± 1.1; 1.1	-0.5 ± 1.3; 1.3
Co-60	0.6 ± 1.3; 1.3	0.3 ± 1.2; 1.2	0.3 ± 1.4; 1.4
Zn-65	1.8 ± 2.2; 2.2	1.8 ± 1.9; 1.9	-0.5 ± 2.6; 2.6
Zr/Nb-95	0.3 ± 1.0; 1.0	-0.5 ± 1.1; 1.1	-1.6 ± 1.5; 1.5
Cs-134	0.2 ± 1.1; 1.1	1.1 ± 1.2; 1.2	-0.2 ± 1.7; 1.7
Cs-137	0.6 ± 1.1; 1.1	0.0 ± 0.8; 0.8	0.0 ± 1.4; 1.4
Ba/La-140	-1.0 ± 1.2; 1.2	4.2 ± 1.0; 1.2	0.8 ± 1.6; 1.6

Table 7. Surface Water

Collection: Monthly composites of weekly collections

ODCM-Required LLDs: Gross Beta = 4, Mn-54 = 15, Fe-59 = 30, Co-58 = 15, Co-60 = 15, Zn-65 = 30, Zr/Nb-95 = 15, Cs-134 = 15, Cs-137 = 18, Ba/La-140 = 15 pCi/L

Units: pCi/L

Sample Description and Concentration

D-51 Dresden Lock & Dam

2000 Collection Period	July	August	September
Lab Code	CDSW-5556	CDSW-6638	CDSW-7481
Gross Beta	5.5 ± 1.6 ; 1.8	5.0 ± 1.3 ; 1.5	6.3 ± 1.6 ; 1.9
Mn-54	1.6 ± 3.1; 3.1	-0.8 ± 1.5; 1.6	2.4 ± 1.6; 1.6
Fe-59	-4.4 ± 5.5; 5.5	-2.2 ± 3.4; 3.4	1.4 ± 4.0; 4.0
Co-58	-1.0 ± 3.6; 3.6	-0.8 ± 1.5; 1.5	2.5 ± 1.7; 1.8
Co-60	2.0 ± 3.7; 3.7	-2.5 ± 1.8; 1.8	0.6 ± 1.7; 1.7
Zn-65	-2.6 ± 4.8; 4.8	-6.7 ± 4.1; 4.3	0.5 ± 3.9; 3.9
Zr/Nb-95	2.7 ± 2.8; 2.9	-0.0 ± 1.7; 1.7	-0.1 ± 1.9; 1.9
Cs-134	1.6 ± 3.3; 3.3	-0.0 ± 1.7; 1.7	-0.1 ± 2.1; 2.1
Cs-137	1.0 ± 2.8; 2.8	0.7 ± 1.9; 1.9	-0.0 ± 1.8; 1.8
Ba/La-140	-5.3 ± 4.1; 4.2	-8.4 ± 2.0; 2.3	2.6 ± 1.6; 1.6

2000 Collection Period	October	November	December
Lab Code	CDSW-8675	CDSW-9984	CDSW-10590
Gross Beta	6.9 ± 1.2 ; 1.6	7.1 ± 1.7 ; 2.0	5.2 ± 1.6 ; 1.8
Mn-54	1.1 ± 2.3; 2.3	0.7 ± 2.0; 2.0	0.8 ± 1.5; 1.5
Fe-59	0.2 ± 4.2; 4.2	4.0 ± 3.4; 3.4	0.8 ± 3.2; 3.2
Co-58	1.7 ± 2.4; 2.4	-1.7 ± 1.6; 1.6	2.2 ± 1.7; 1.7
Co-60	-1.5 ± 2.8; 2.8	0.4 ± 1.6; 1.6	0.5 ± 1.5; 1.5
Zn-65	-0.2 ± 5.0; 5.0	-1.0 ± 4.1; 4.1	-0.5 ± 3.6; 3.6
Zr/Nb-95	-0.8 ± 2.3; 2.3	-1.4 ± 2.0; 2.0	-2.3 ± 1.7; 1.8
Cs-134	0.8 ± 2.4; 2.4	2.0 ± 2.2; 2.2	0.6 ± 2.0; 2.0
Cs-137	-1.3 ± 2.5; 2.5	0.3 ± 2.0; 2.0	1.1 ± 2.0; 2.0
Ba/La-140	2.6 ± 3.0; 3.1	2.1 ± 1.9; 1.9	0.3 ± 1.7; 1.7

Table 7. Surface Water

Collection:	Monthly composites of weekly collections
ODCM-Required LLDs:	Gross Beta = 4, Mn-54 = 15, Fe-59 = 30, Co-58 = 15, Co-60 = 15, Zn-65 = 30, Zr/Nb-95 = 15, Cs-134 = 15, Cs-137 = 18, Ba/La-140 = 15 pCi/L
Units:	pCi/L

Sample Description and Concentration

D-52 (C) DesPlaines River

2000 Collection Period	January	February	March
Lab Code	CDSW-586	CDSW-1051	CDSW-2083
Gross Beta	9.6 ± 2.0 ; 2.5	6.9 ± 2.0 ; 2.3	8.7 ± 2.0 ; 2.4
Mn-54	-1.1 ± 2.0; 2.0	-3.5 ± 3.7; 3.8	0.2 ± 2.5; 2.5
Fe-59	7.1 ± 3.7; 3.8	-3.9 ± 6.6; 6.7	3.4 ± 4.5; 4.5
Co-58	0.6 ± 1.9; 1.9	2.5 ± 3.3; 3.3	1.6 ± 2.1; 2.1
Co-60	0.7 ± 2.0; 2.0	1.5 ± 4.5; 4.5	2.1 ± 3.2; 3.2
Zn-65	-2.7 ± 3.8; 3.9	-1.8 ± 9.0; 9.0	1.2 ± 5.2; 5.2
Zr/Nb-95	-1.2 ± 2.0; 2.0	-2.7 ± 3.9; 3.9	-0.8 ± 2.2; 2.2
Cs-134	1.7 ± 2.3; 2.3	-0.9 ± 4.2; 4.2	-1.2 ± 2.8; 2.8
Cs-137	2.3 ± 2.3; 2.3	-2.2 ± 3.7; 3.7	1.9 ± 3.0; 3.0
Ba/La-140	0.4 ± 2.0; 2.0	-0.8 ± 5.2; 5.2	-1.7 ± 3.6; 3.6

2000 Collection Period	April	May	June
Lab Code	CDSW-3024	CDSW-3906	CDSW-4605
Gross Beta	6.9 ± 1.9 ; 2.2	6.8 ± 1.7 ; 2.0	6.9 ± 1.9 ; 2.2
Mn-54	-0.6 ± 1.1; 1.1	0.9 ± 1.7; 1.7	0.9 ± 1.5; 1.5
Fe-59	-1.3 ± 2.1; 2.1	-2.5 ± 4.0; 4.0	0.4 ± 2.5; 2.5
Co-58	0.6 ± 1.1; 1.1	2.2 ± 1.7; 1.7	0.9 ± 1.5; 1.5
Co-60	0.4 ± 1.3; 1.3	0.8 ± 1.9; 1.9	-0.4 ± 1.5; 1.5
Zn-65	-2.0 ± 2.1; 2.2	-0.8 ± 4.0; 4.0	-0.6 ± 3.3; 3.3
Zr/Nb-95	-1.0 ± 1.1; 1.1	-1.2 ± 1.9; 1.9	-0.5 ± 1.4; 1.4
Cs-134	0.5 ± 1.3; 1.3	1.2 ± 1.8; 1.8	-0.1 ± 1.9; 1.9
Cs-137	0.7 ± 1.3; 1.3	-2.0 ± 2.1; 2.1	-0.7 ± 1.4; 1.4
Ba/La-140	6.7 ± 1.3; 1.6	0.7 ± 1.7; 1.7	2.0 ± 1.7; 1.7

Table 7. Surface Water

Collection: Monthly composites of weekly collections

ODCM-Required LLDs: Gross Beta = 4, Mn-54 = 15, Fe-59 = 30, Co-58 = 15, Co-60 = 15, Zn-65 = 30, Zr/Nb-95 = 15, Cs-134 = 15, Cs-137 = 18, Ba/La-140 = 15 pCi/L

Units: pCi/L

Sample Description and Concentration

D-52 (C) DesPlaines River

2000 Collection Period	July	August	September
Lab Code	CDSW-5557	CDSW-6639	CDSW-7482,3
Gross Beta	4.5 ± 1.6 ; 1.7	6.0 ± 1.4 ; 1.6	6.0 ± 1.3 ; 1.4
Mn-54	-0.5 ± 1.3; 1.3	-1.7 ± 2.4; 2.4	1.2 ± 1.2; 1.2
Fe-59	2.9 ± 2.4; 2.5	-1.2 ± 4.3; 4.3	-0.1 ± 2.1; 2.1
Co-58	-1.5 ± 1.2; 1.3	0.2 ± 2.2; 2.2	1.8 ± 1.1; 1.1
Co-60	-0.3 ± 1.3; 1.3	0.9 ± 2.7; 2.7	-0.6 ± 1.4; 1.4
Zn-65	-1.7 ± 3.1; 3.1	1.9 ± 4.9; 4.9	-2.1 ± 2.8; 2.8
Zr/Nb-95	0.1 ± 1.4; 1.4	-6.4 ± 4.5; 4.6	-2.0 ± 1.3; 1.3
Cs-134	0.4 ± 1.5; 1.5	1.5 ± 2.8; 2.8	-0.4 ± 1.5; 1.5
Cs-137	0.6 ± 1.4; 1.4	0.1 ± 2.1; 2.1	0.2 ± 1.3; 1.3
Ba/La-140	-5.5 ± 1.7; 1.9	-4.4 ± 2.8; 2.9	-1.5 ± 1.5; 1.6

2000 Collection Period	October	November	December
Lab Code	CDSW-8676	CDSW-9985	CDSW-10591
Gross Beta	6.4 ± 1.2 ; 1.5	6.9 ± 1.6 ; 1.9	7.0 ± 2.0 ; 2.3
Mn-54	0.2 ± 1.9; 1.9	-0.0 ± 1.9; 1.9	-0.3 ± 1.6; 1.6
Fe-59	0.5 ± 2.6; 2.6	-5.0 ± 4.2; 4.3	-1.0 ± 2.4; 2.4
Co-58	-1.4 ± 1.6; 1.6	0.4 ± 1.5; 1.5	-0.2 ± 1.4; 1.4
Co-60	0.5 ± 2.4; 2.4	0.4 ± 2.3; 2.3	-0.9 ± 1.1; 1.1
Zn-65	-0.8 ± 4.1; 4.1	-0.2 ± 3.8; 3.8	-1.4 ± 3.1; 3.1
Zr/Nb-95	-1.1 ± 1.9; 1.9	-2.4 ± 2.2; 2.2	-1.8 ± 1.9; 1.9
Cs-134	-0.1 ± 2.1; 2.1	0.5 ± 2.3; 2.3	1.8 ± 1.6; 1.7
Cs-137	1.0 ± 1.8; 1.8	0.3 ± 2.1; 2.1	0.3 ± 1.5; 1.5
Ba/La-140	1.6 ± 2.0; 2.0	-3.6 ± 2.7; 2.8	-0.6 ± 2.0; 2.0

Table 7. Surface Water

Collection: Quarterly composites of weekly collections

ODCM-Required LLD: H-3 = 200 pCi/L

Units: pCi/L

2000 Collection Period	Sample Description and Concentration	
	Lab Code	Tritium
	D-51 Dresden Lock & Dam	
1st Quarter	CDSW- 1928[a]	933 ± 123; 177
2nd Quarter	CDSW- 4539	548 ± 108; 131
3rd Quarter	CDSW- 7168	462 ± 107; 124
4th Quarter	DSW- 10596,7	434 ± 75; 86
	D-52 (C) DesPlaines River	
1st Quarter	CDSW- 1929	199 ± 101; 104
2nd Quarter	CDSW- 4540	69 ± 89; 90
3rd Quarter	CDSW- 7169	28 ± 90; 90
4th Quarter	DSW- 10598	181 ± 96; 99

[a] Sample repeated with a result of 920±111 pCi/L.

Table 8. Well Water

Collection:	Quarterly
ODCM-Required LLDs:	H-3 = 200, Mn-54 = 15, Fe-59 = 30, Co-58 = 15, Co-60 = 15, Zn-65 = 30, Zr/Nb-95 = 15, Cs-134 = 15, Cs-137 = 18, Ba/La-140 = 15 pCi/L
Units:	pCi/L

Sample Description and Concentration

D-23 Thorsen Well

Date Collected	01-08-00	04-07-00	07-14-00	10-13-00
Lab Code	CDWW-134	CDWW-2040	CDWW-5087	CDWW-7848
H-3	299 ± 103; 111	448 ± 97; 115	587 ± 110; 136	472 ± 108; 125
Mn-54	-2.4 ± 2.6; 2.6	-0.2 ± 1.4; 1.4	0.2 ± 0.7; 0.7	0.2 ± 1.3; 1.3
Fe-59	-2.6 ± 5.8; 5.8	-1.7 ± 2.2; 2.3	1.3 ± 1.4; 1.4	-0.9 ± 2.8; 2.8
Co-58	-2.5 ± 2.4; 2.5	0.8 ± 1.0; 1.0	-0.4 ± 0.7; 0.7	0.4 ± 1.5; 1.5
Co-60	0.4 ± 2.0; 2.0	0.6 ± 1.2; 1.2	0.6 ± 0.6; 0.6	1.8 ± 1.6; 1.6
Zn-65	-2.3 ± 5.1; 5.1	-0.6 ± 2.3; 2.3	-1.0 ± 1.7; 1.7	-6.5 ± 3.4; 3.5
Zr/Nb-95	0.1 ± 2.6; 2.6	-0.3 ± 1.2; 1.2	-1.9 ± 0.7; 0.8	-0.7 ± 1.6; 1.6
Cs-134	0.5 ± 3.1; 3.1	0.5 ± 1.3; 1.3	0.2 ± 0.7; 0.7	0.1 ± 1.4; 1.4
Cs-137	2.2 ± 2.9; 2.9	0.5 ± 1.0; 1.1	-0.3 ± 0.7; 0.7	1.0 ± 1.4; 1.4
Ba/La-140	-7.5 ± 2.6; 2.8	2.0 ± 1.4; 1.4	0.9 ± 0.8; 0.8	-0.7 ± 1.7; 1.7

D-35 Dresden Lock & Dam

Date Collected	01-08-00	04-07-00	07-14-00	10-13-00
Lab Code	CDWW-137	CDWW-2042	CDWW-5088	CDWW-7850
H-3	-5 ± 91; 91	85 ± 92; 93	28 ± 88; 88	22 ± 90; 90
Mn-54	-0.3 ± 1.9; 1.9	1.2 ± 1.8; 1.8	2.5 ± 1.4; 1.5	1.6 ± 4.9; 4.9
Fe-59	-0.4 ± 4.1; 4.1	1.2 ± 3.4; 3.5	-2.1 ± 3.7; 3.7	4.9 ± 7.2; 7.2
Co-58	0.9 ± 1.9; 1.9	-0.6 ± 1.8; 1.8	0.0 ± 1.5; 1.5	0.3 ± 4.2; 4.2
Co-60	-0.0 ± 1.8; 1.8	0.1 ± 2.1; 2.1	0.1 ± 1.4; 1.4	-4.5 ± 5.4; 5.4
Zn-65	0.6 ± 4.1; 4.1	-2.1 ± 3.7; 3.7	0.3 ± 3.1; 3.1	-7.5 ± 9.9; 10.0
Zr/Nb-95	-1.4 ± 1.9; 2.0	0.5 ± 1.9; 1.9	1.4 ± 1.6; 1.6	0.7 ± 4.2; 4.2
Cs-134	1.4 ± 2.0; 2.1	0.4 ± 1.8; 1.8	0.9 ± 1.6; 1.6	-5.0 ± 4.2; 4.3
Cs-137	2.7 ± 2.1; 2.2	1.5 ± 2.0; 2.0	1.1 ± 1.4; 1.4	4.2 ± 4.4; 4.4
Ba/La-140	-2.9 ± 2.1; 2.2	1.3 ± 1.8; 1.8	0.4 ± 2.1; 2.1	-3.1 ± 6.2; 6.2

MILCH ANIMALS, NEAREST LIVESTOCK, AND

NEAREST RESIDENCES CENSUSES

DRESDEN

MILCH ANIMALS CENSUS, 2000

Halpin's Dairy Farm

16.0 miles, Sector J

10% or less for pasture
25% ground grain
65% green chop, hay or silage

D-25 V. Biros Dairy Farm

11.4 miles, Sector L

25% pasture
25% ground grain
50% green chop

Sherman Tweet Farm

8.5 miles, Sector Q

25% pasture
25% ground grain
50% hay or silage

Census conducted by A.D. Lewis on August 21, 2000

DRESDEN

NEAREST LIVESTOCK CENSUS, 2000

Nearest livestock of the Dresden Station within a 6.2 mile radius.

Sector	Direction	Distance
A	N	1.4 miles
B	NNE	6.0 miles
C	NE	2.5 miles
D	ENE	4.7 miles
E	E	None
F	ESE	None
G	SE	None
H	SSE	None
J	S	None
K	SSW	None
L	SW	None
M	WSW	None
N	W	0.5 miles
P	WNW	0.5 miles
Q	NW	0.5 miles
R	NNW	1.0 miles

Census conducted by A.D. Lewis on August 21, 2000

DRESDEN

NEAREST RESIDENCE CENSUS, 2000

Nearest resident of the Dresden Station within a 6.2 mile radius.

Sector	Direction	Distance
A	N	1.2 miles
B	NNE	0.8 miles
C	NE	1.0 miles
D	ENE	0.8 miles
E	E	1.1 miles
F	ESE	1.0 miles
G	SE	0.6 miles
H	SSE	0.5 miles
J	S	0.5 miles
K	SSW	3.3 miles
L	SW	3.6 miles
M	WSW	5.8 miles
N	W	3.5 miles
P	WNW	3.7 miles
Q	NW	2.6 miles
R	NNW	0.8 miles

Census conducted by A.D. Lewis on August 21, 2000

DRESDEN

4.0 TLD DATA*

* TLD Data provided by Exelon Generation Company.

Gamma Radiation Measured in mR by TLDs

Site	Description	Quarter 1 2000	Quarter 2 2000	Quarter 3 2000	Quarter 4 2000
I. INDICATOR LOCATIONS					
a. Air Samplers					
D-01-1	ONSITE STATION 1	17.7	18.3	16.6	17.1
D-01-2	ONSITE STATION 1	17.2	17.7	16.0	17.7
D-02-1	ONSITE STATION 2	16.7	16.6	15.7	15.6
D-02-2	ONSITE STATION 2	17.0	16.9	15.2	15.9
D-03-1	ONSITE STATION 3	14.1	14.4	13.9	14.8
D-03-2	ONSITE STATION 3	14.5	14.4	14.4	15.2
D-04-1	COLLINS ROAD	17.4	17.1	17.3	17.6
D-04-2	COLLINS ROAD	17.4	17.3	17.3	17.6
D-07-1	CLAY PRODUCTS	16.6	15.8	15.4	16.2
D-07-2	CLAY PRODUCTS	16.4	16.1	15.6	16.2
D-08-1	PRAIRIE PARKS	16.8	17.4	17.3	17.8
D-08-2	PRAIRIE PARKS	17.2	17.2	17.2	17.6
D-10-1	GOOSE LAKE VILLAGE	16.8	16.6	17.6	18.3
D-10-2	GOOSE LAKE VILLAGE	17.5	16.8	16.7	17.3
D-13-1	MINOOKA	15.9	15.2	14.6	16.1
D-13-2	MINOOKA	15.3	15.5	14.5	15.5
D-14-1	CHANNAHON	16.1	15.3	14.5	16.0
D-14-2	CHANNAHON	16.3	16.9	14.8	15.8
D-45-1	MCKINLEY WOODS ROAD	19.6	19.7	18.7	19.3
D-45-2	MCKINLEY WOODS ROAD	20.1	19.2	18.7	19.4
D-53-1	GRUNDY COUNTY LINE ROAD	15.3	13.8	12.8	14.2
D-53-2	GRUNDY COUNTY LINE ROAD	13.8	13.7	13.3	14.2
	Air Sampler Mean ± S.D.	16.6 ± 1.5	16.5 ± 1.6	15.8 ± 1.7	16.6 ± 1.5
	Annual Air Sampler Mean ± S.D.				16.4 ± 1.6
b. Inner Ring (100 Series)					
D-101-1		18.9	19.7	18.2	18.3
D-101-2		17.2	17.6	16.9	17.4
D-102-1		18.8	19.6	18.3	19.8
D-102-2		19.8	19.4	19.1	19.4
D-103-1		16.9	16.0	15.4	16.4
D-103-2		15.9	16.5	15.3	15.9
D-104-1		19.2	20.2	19.4	20.5
D-104-2		18.2	18.7	17.2	18.1
D-105-1		18.4	18.3	16.7	17.5
D-105-2		16.9	18.2	17.5	18.8
D-106-1		15.8	15.3	14.7	16.1

Site	Description	Quarter 1 2000	Quarter 2 2000	Quarter 3 2000	Quarter 4 2000
b. Inner Ring (100 Series)					
D-106-2		14.4	14.0	13.4	14.3
D-107-1		14.7	14.7	14.0	15.4
D-107-2		14.8	14.8	14.7	14.9
D-108-1		18.5	18.0	18.0	19.4
D-108-2		17.0	16.7	15.5	17.1
D-109-1		17.5	17.9	16.6	17.9
D-109-2		17.6	17.5	16.9	18.5
D-110-3		20.6	21.1	19.8	21.3
D-110-4		21.5	20.9	20.5	21.0
D-111-1		20.6	19.8	18.0	18.1
D-111-2		19.5	18.4	17.7	17.8
D-112A-1		15.9	15.7	14.9	16.6
D-112A-2		16.5	16.4	15.6	16.9
D-113-1		14.9	14.7	14.2	15.3
D-113-2		16.3	15.7	15.3	16.7
D-114-1		14.4	14.8	14.4	15.4
D-114-2		15.3	15.9	15.6	15.5
D-115-1		16.4	17.7	16.0	16.9
D-115-2		17.8	17.8	17.3	17.7
D-116-1		17.9	18.3	18.8	19.6
D-116-2		19.4	19.6	19.5	20.2
	Inner Ring Mean ± S.D.	17.4 ± 1.9	17.5 ± 2.0	16.7 ± 1.9	17.6 ± 1.9
	Annual Inner Ring Mean ± S.D.				17.3 ± 1.9
c. Outer Ring (200 Series)					
D-201-1		20.9	21.6	20.8	20.7
D-201-2		21.0	21.0	19.9	21.2
D-202-1		17.5	17.1	16.6	17.4
D-202-2		19.1	19.0	18.9	18.6
D-203-1		15.0	17.6	16.6	17.3
D-203-2		17.3	14.3	14.2	15.3
D-204-1		18.2	17.9	16.8	18.1
D-204-2		16.3	15.4	14.7	16.4
D-205-1		17.9	17.2	17.0	17.4
D-205-2		17.8	17.8	18.0	18.6
D-206-1		17.1	16.5	15.5	16.9
D-206-2		17.1	17.4	16.6	17.7
D-207-1		15.2	15.4	14.4	15.4
D-207-2		15.9	15.1	14.7	16.0
D-208-1		14.1	13.5	13.6	14.7
D-208-2		15.1	14.8	13.5	14.4
D-209-1		13.8	13.5	13.5	13.6
D-209-2		13.6	13.7	13.4	14.3
D-210-1		16.4	16.6	16.0	17.0
D-210-2		17.9	17.8	17.7	18.1
D-211-1		17.5	18.9	17.0	18.0
D-211-2		17.8	18.5	17.0	17.9
D-212-3		15.1	15.1	13.8	15.3

Site	Description	Quarter 1 2000	Quarter 2 2000	Quarter 3 2000	Quarter 4 2000
c. Outer Ring (200 Series)					
D-212-4		15.0	14.7	14.7	15.1
D-213-1		14.6	13.8	13.5	14.1
D-213-2		15.6	15.8	15.0	16.1
D-214-1		21.0	22.3	20.0	20.6
D-214-2		21.2	21.3	20.0	20.7
D-215-1		21.0	20.6	20.2	20.6
D-215-2		19.7	19.7	18.3	19.7
D-216-1		21.3	21.5	19.9	21.5
D-216-2		19.8	20.9	19.2	21.2
	Outer Ring Mean ± S.D.	17.4 ± 2.4	17.4 ± 2.7	16.6 ± 2.4	17.5 ± 2.4
	Annual Outer Ring Mean ± S.D.				17.2 ± 2.5
	INDICATOR LOCATION MEAN ± S.D.	17.2 ± 2.0	17.2 ± 2.2	16.4 ± 2.0	17.3 ± 2.0
	Annual INDICATOR LOCATION MEAN ± S.D.				17.0 ± 2.1
II. CONTROL LOCATIONS					
D-12-1	LISBON	14.8	15.5	14.5	14.9
D-12-2	LISBON	13.7	14.2	13.1	14.4
	CONTROL LOCATION Mean ± S.D.	14.3 ± 0.8	14.9 ± 0.9	13.8 ± 1.0	14.6 ± 0.4
	Annual CONTROL LOCATION Mean ± S.D.				14.4 ± 0.7
III. SPECIAL INTEREST LOCATIONS					
D-306-1		31.5	30.6	27.8	22.9
D-306-2		27.4	26.8	24.8	21.1
D-306-3		25.9	25.2	22.7	21.6
D-310-1		44.5	45.8	38.1	22.7
D-313-1		20.5	21.5	20.2	19.1
D-313-2		17.2	17.7	17.0	17.3
	SPECIAL INTEREST LOCATION Mean ± S.D.	27.8 ± 9.6	27.9 ± 9.8	25.1 ± 7.4	20.8 ± 2.2
	Annual SPECIAL INTEREST LOCATION Mean ± S.D.				25.4 ± 7.9

COMMENTS: "*" Indicates lost dosimeter. A portion of the Dose was estimated.
"g" Indicates edited dosimeter. The original Dose was replaced with an estimated value.
"n" (n=2..9) Indicates dose is average of n values. A "+" means more than 9 values.

DRESDEN

GRAPHS OF DATA TRENDS

Air Particulates - Gross Beta

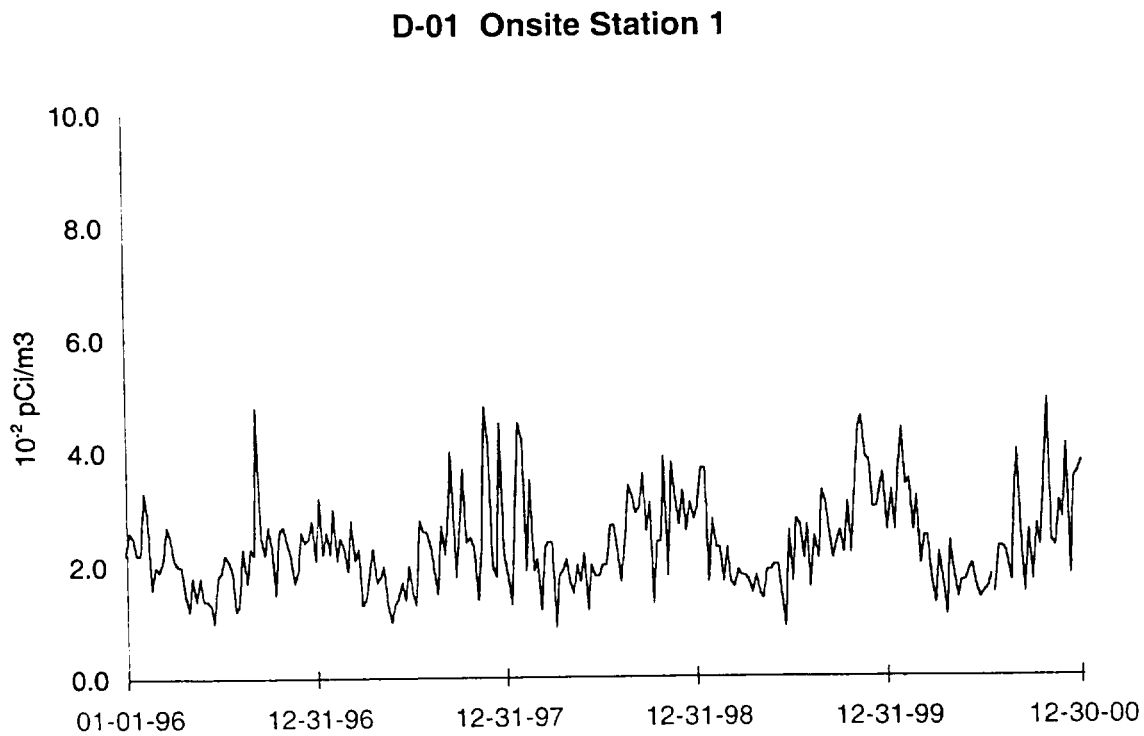

Figure 1. Continuous collection with weekly exchange of particulate filter.

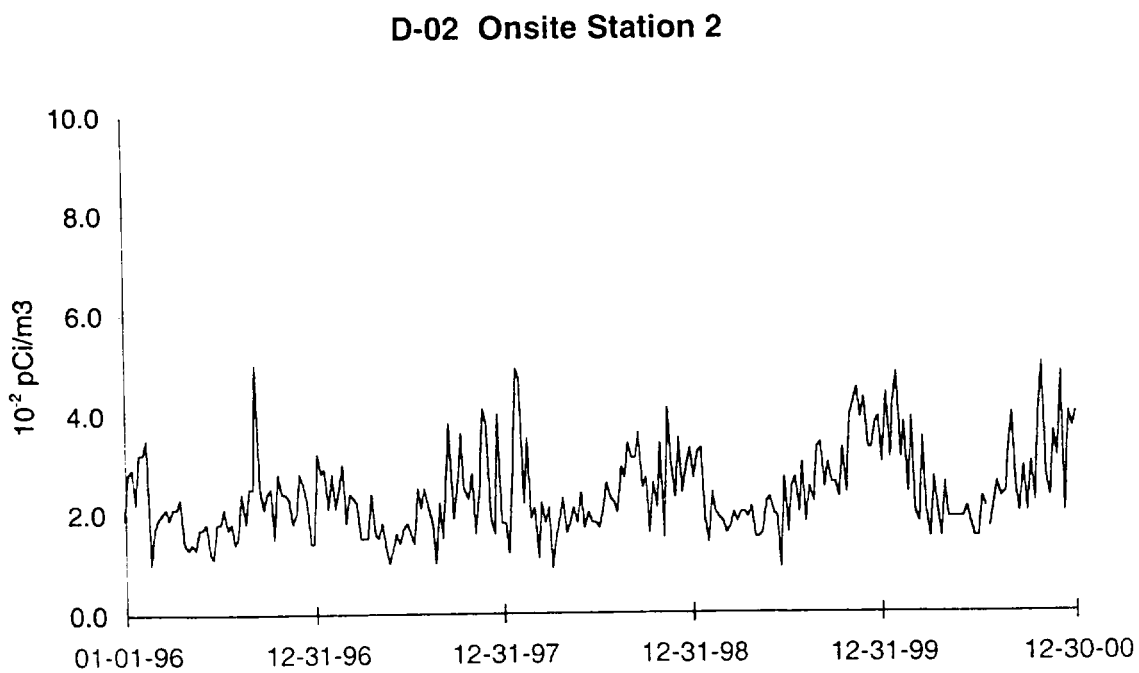

Figure 2. Continuous collection with weekly exchange of particulate filter.

Air Particulates - Gross Beta

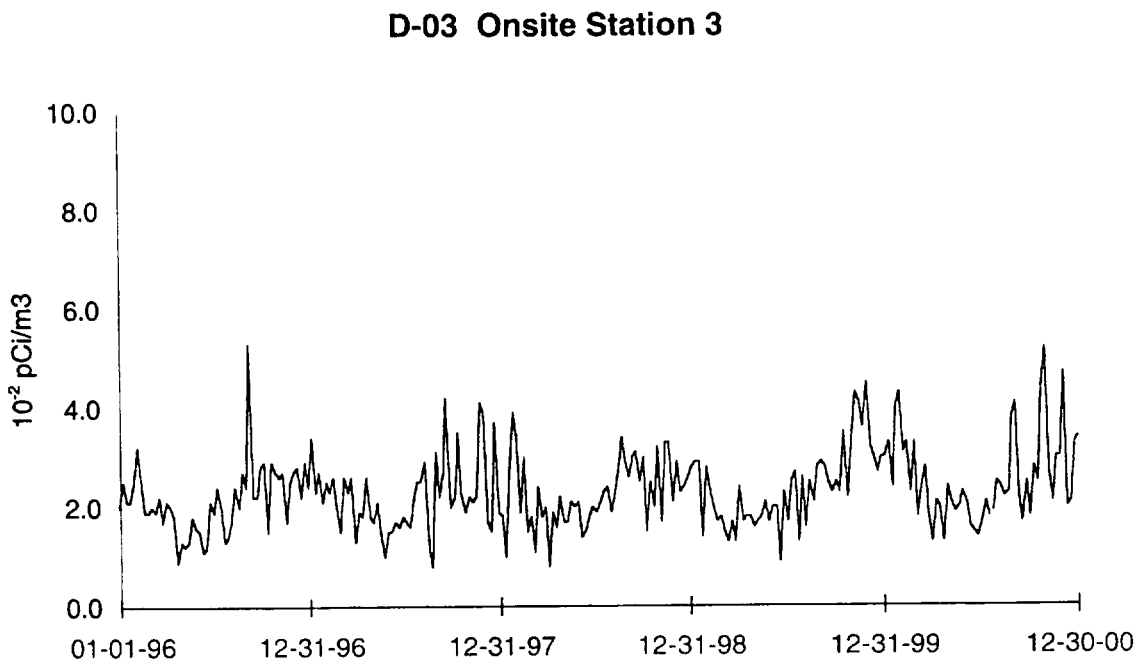

Figure 3. Continuous collection with weekly exchange of particulate filter.

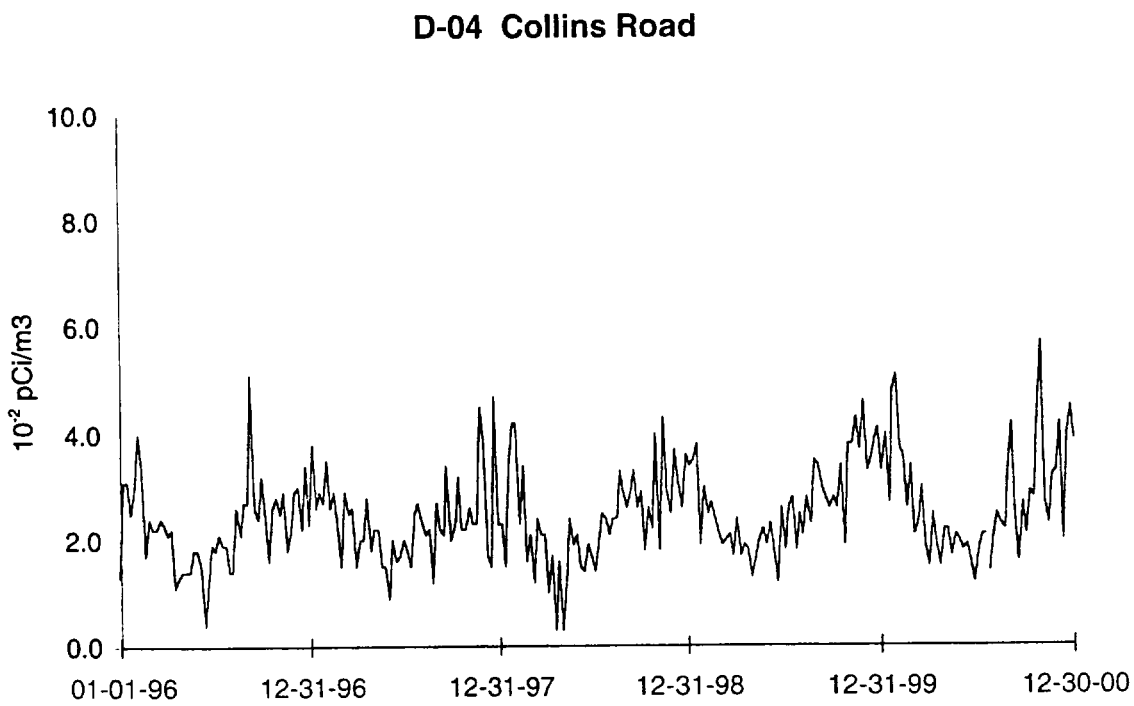

Figure 3. Continuous collection with weekly exchange of particulate filter.

Air Particulates - Gross Beta

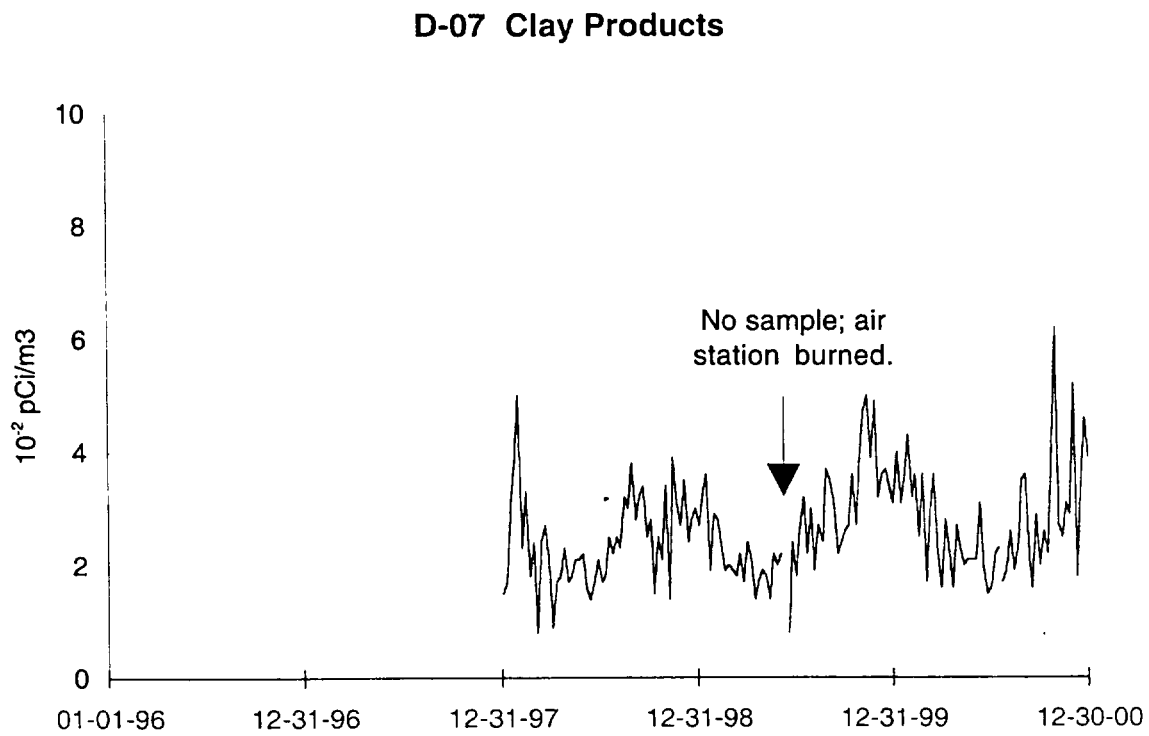

Figure 6. Continuous collection with weekly exchange of particulate filter.

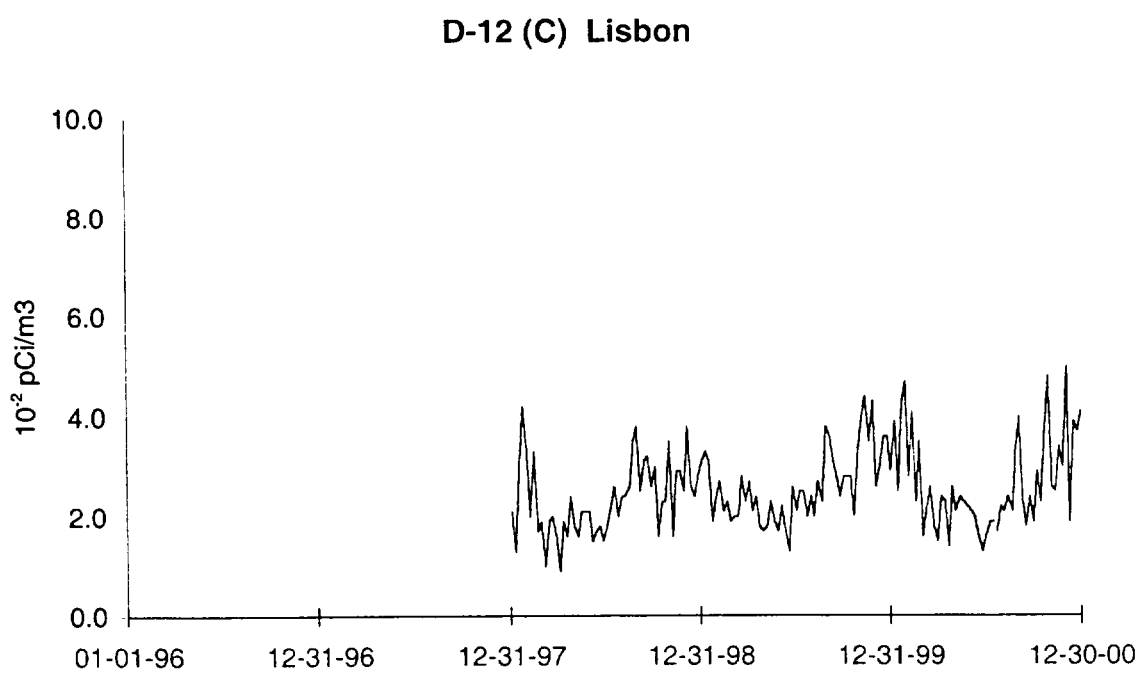

Figure 7. Continuous collection with weekly exchange of particulate filter.

Air Particulates - Gross Beta

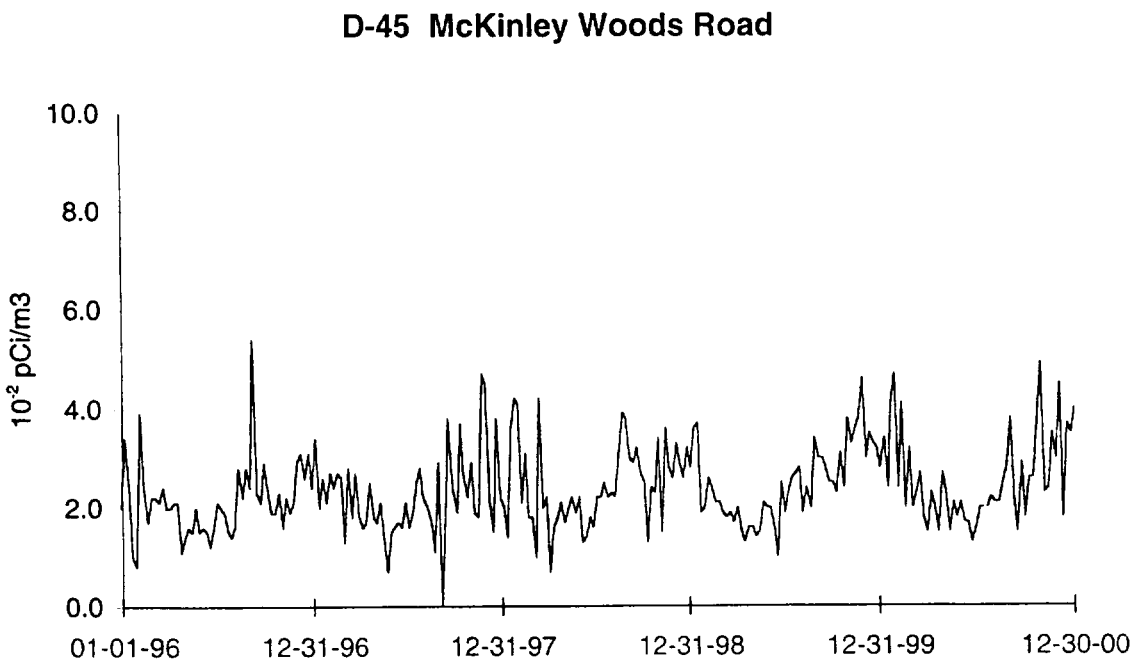

Figure 8. Continuous collection with weekly exchange of particulate filter.

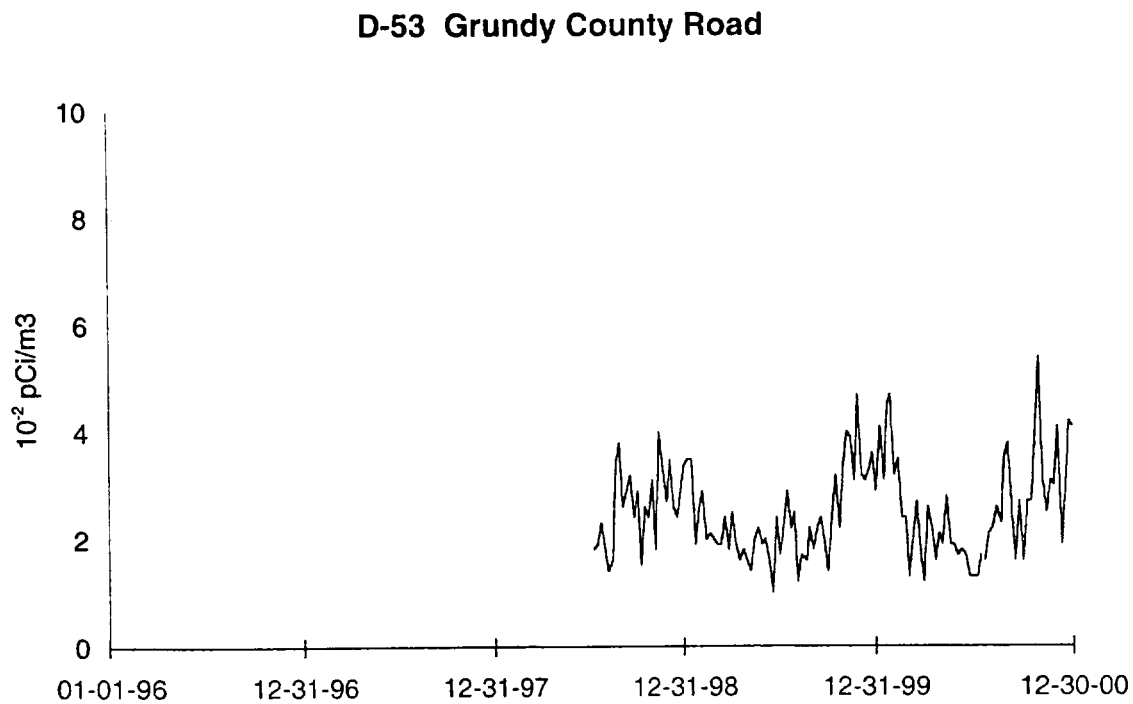

Figure 8. Continuous collection with weekly exchange of particulate filter.

Surface Water-Gross Beta

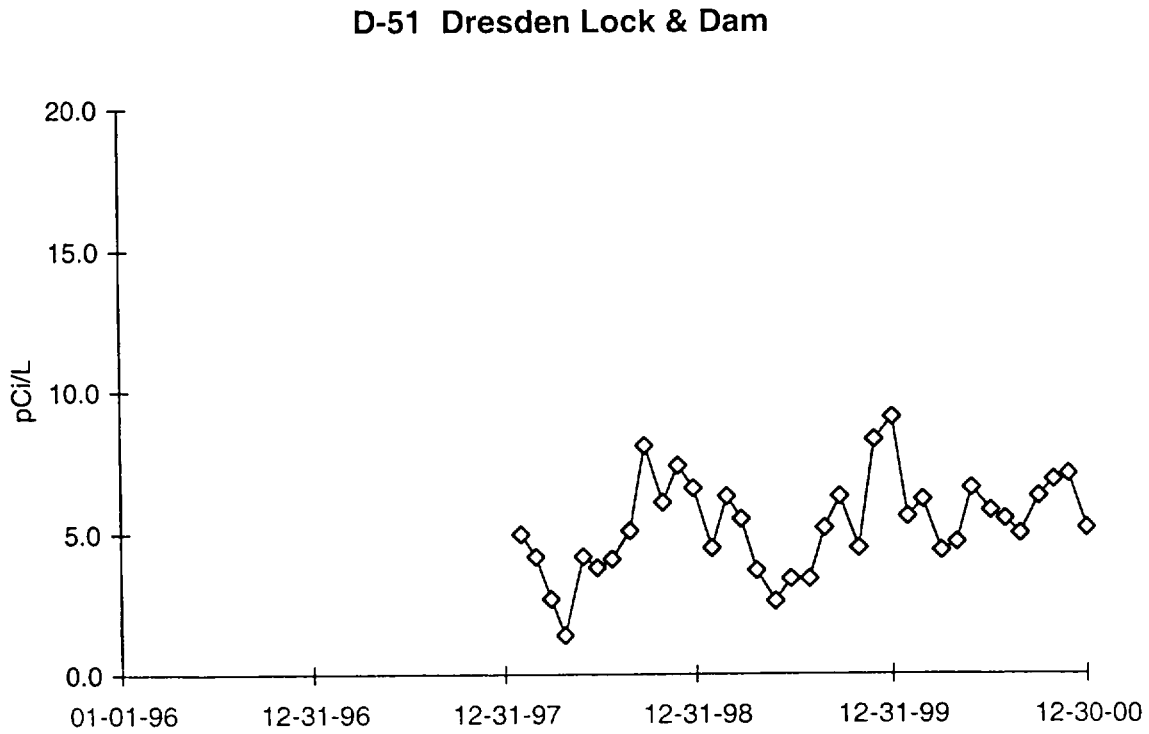

Figure 9. Weekly collection.

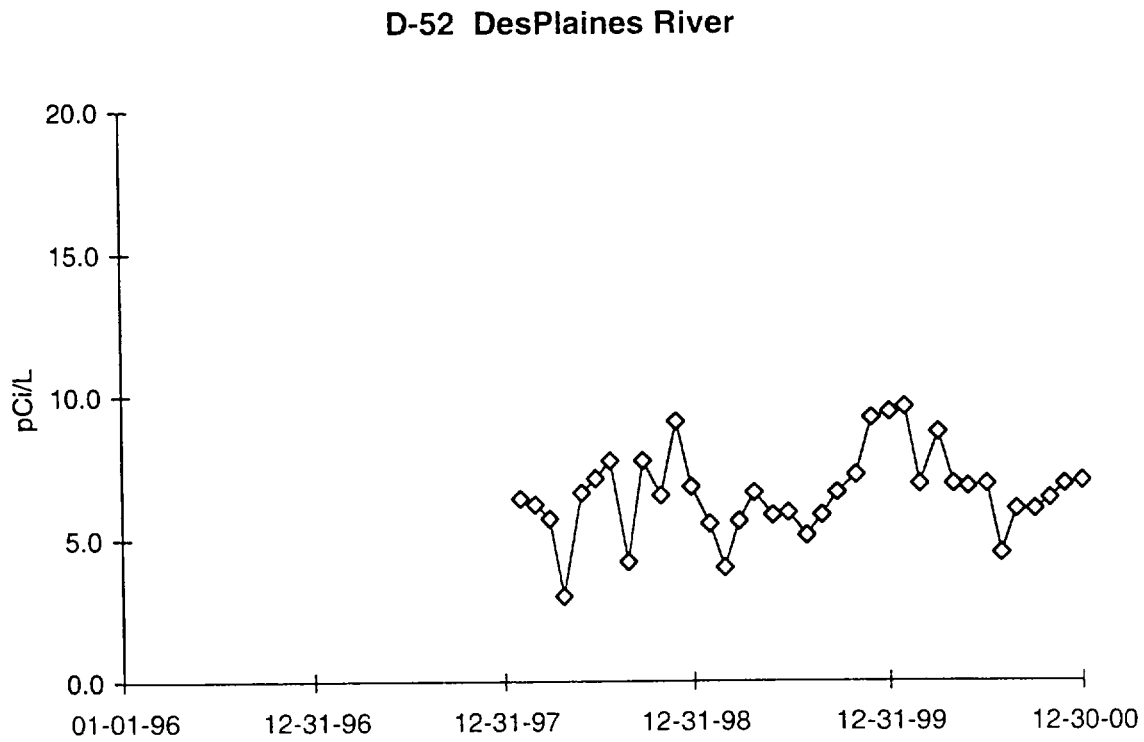

Figure 10. Weekly collection.

Surface Water-Tritium

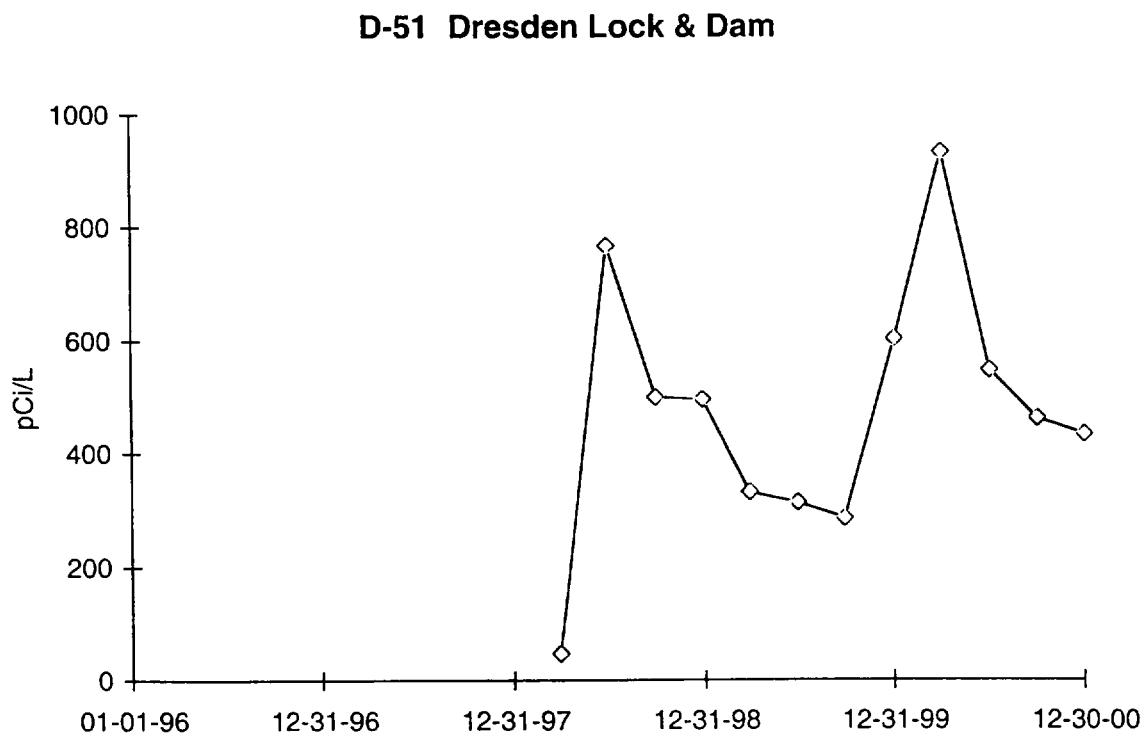

Figure 11. Quarterly composite of weekly collection.

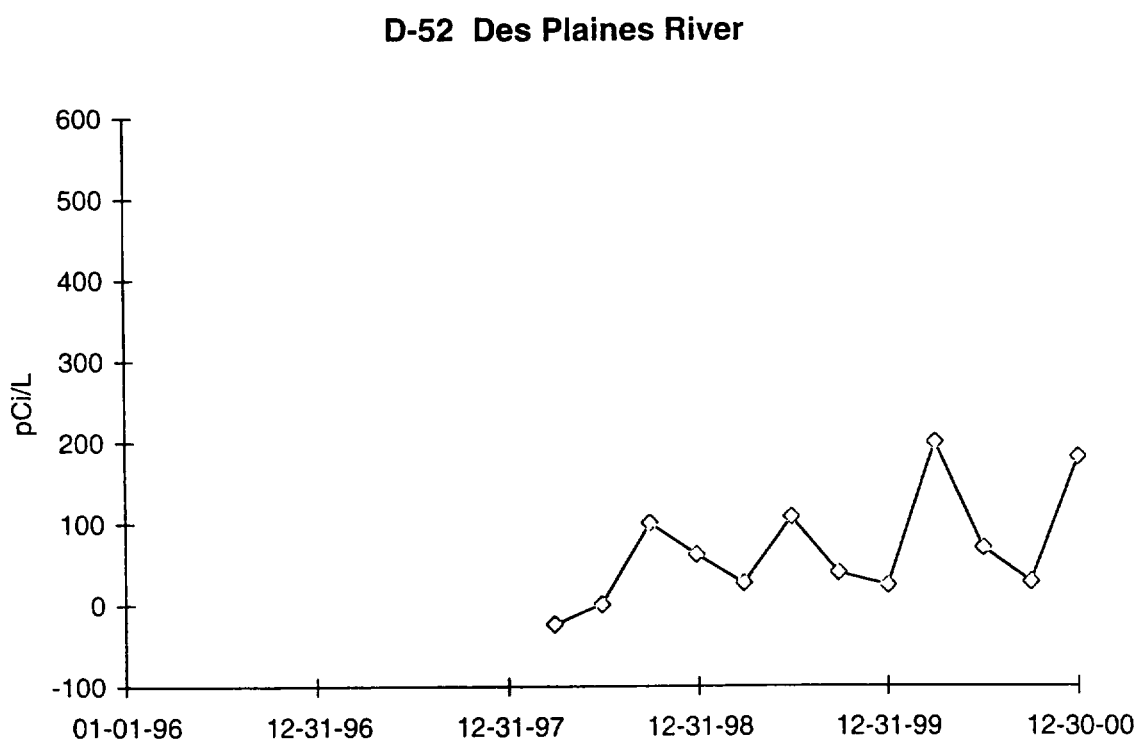

Figure 12. Quarterly composite of weekly collection.

Well Water-Tritium

D-23 Thorsen

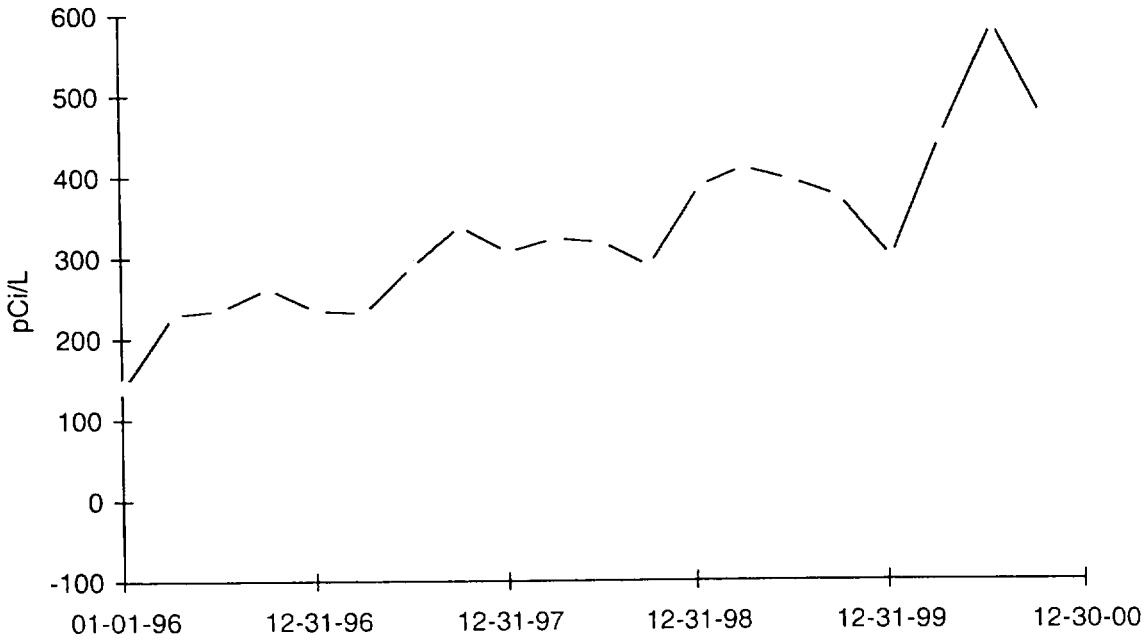

Figure 11. Quarterly collections.

D-35 Dresden Lock and Dam

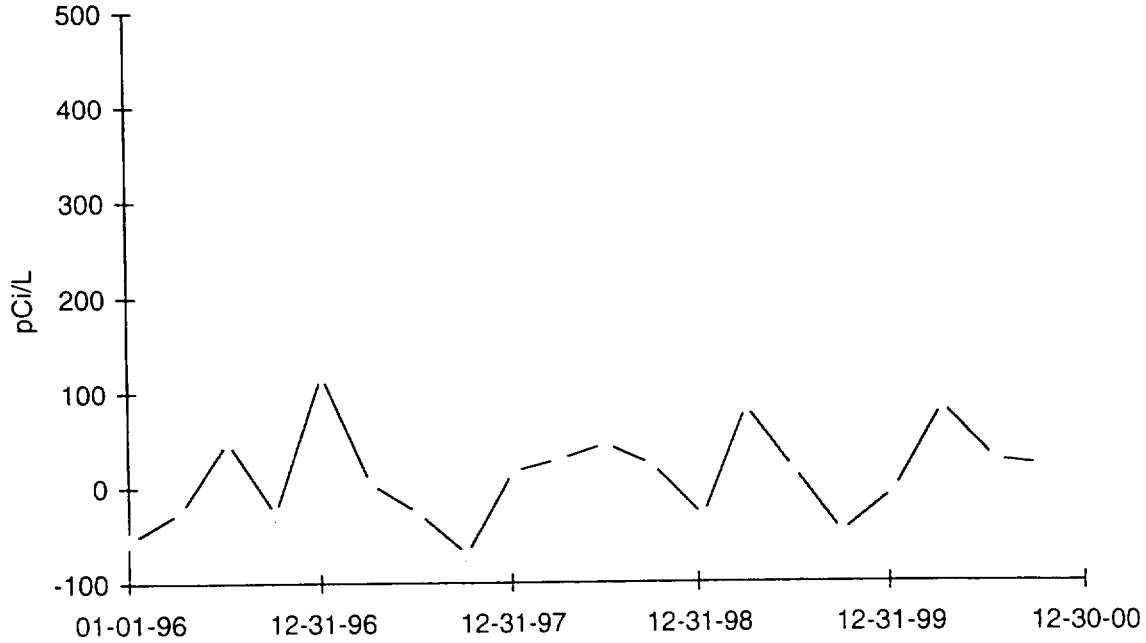

Figure 12. Quarterly collections.

DRESDEN

DREDGE SPOILS CENSUS DATA, 2000

Nearest dredging to station.

Sector	Direction	Distance	Site No.
A	N	0.4	5

APPENDIX IV

INTERLABORATORY COMPARISON PROGRAM RESULTS

NOTE: Environmental Incorporated Midwest Laboratory participates in intercomparison studies administered by Environmental Resource Associates which serve as a replacement for studies previously conducted by the U.S. EPA Environmental Monitoring Systems Laboratory, Las Vegas, Nevada. The results are reported annually in Appendix IV. Also reported are results of mixed analyte and Environmental Measurements Laboratory performance evaluation programs.

January, 2000 through December, 2000

Appendix V

Interlaboratory Comparison Program Results

Enviromental Incorporated Midwest Laboratory (formerly Teledyne Brown Engineering Environmental Services, Midwest Laboratory, Teledyne Isotopes and Hazelton Environmental Services) has participated in interlaboratory comparison (crosscheck) programs since the formulation of its quality control program in December 1971. These programs are operated by agencies which supply environmental type samples (e.g., milk or water) containing concentrations of radionuclides known to the issuing agency but not to participant laboratories. The purpose of such a program is to provide an independent check on the laboratory's analytical procedures and to alert it to any possible problems.

Participant laboratories measure the concentration of specified radionuclides and report them to the issuing agency. Several months later, the agency reports the known values to the participant laboratories and specifies control limits. Results consistently higher or lower than the known values or outside the control limits indicate a need to check the instruments or procedures used.

The results in Table IV-1 were obtained through participation in the environmental sample crosscheck program for milk, water, air filters, and food samples through December 31, 2000. This program was conducted by Environmental Resource Associates and serves to replace studies formerly conducted by the U.S. Environmental Protection Agency Office of Research and Development, National Exposure Research Laboratory Characterization Research Division-Las Vegas, Nevada.

Table IV-2 lists results of the mixed analyte performance evaluation program.

Table IV-3 lists results of the Environmental Measurement Laboratory Quality Assessment Program.

Out-of-limit results are explained directly below the result.

Table IV-1. Interlaboratory Comparison Crosscheck program, Environmental Resource Associates (ERA), comparison of ERA and Environmental, Inc. Midwest Laboratory results.[a]

Lab Code	Sample Type	Date Collected	Analysis	Concentration in pCi/L[b] ERA Result[c] 1s, N=1	Control Limits	Laboratory Results ± 2 Sigma[d]
STW-863	Water	Jan, 2000	Gr. Alpha	25.4 ± 6.4	14.5 - 36.3	39.3 ± 5.2;7.1
		The analysis was repeated and recalculated with Am-241 efficiency; result of reanalysis 29.32 ± 5.79 pCi/L. Internal spike program results do not indicate a problem.				
STW-863	Water	Jan, 2000	Gr. Beta	42.1 ± 4.2	33.4 - 50.8	40.7 ± 1.2;6.4
STW-866	Water	Jan, 2000	Sr-89	22.5 ± 5.0	13.8 - 31.2	17.1 ± 2.2;2.8
STW-866	Water	Jan, 2000	Sr-90	9.6 ± 5.0	0.9 - 18.3	8.1 ± 0.6;1.0
STW-868	Water	Feb, 2000	Ra-226	8.3 ± 1.2	6.1 - 10.4	7.6 ± 0.5;0.9
STW-868	Water	Feb, 2000	Ra-228	2.3 ± 0.6	1.3 - 3.2	5.6 ± 1.0;1.1
		Result of reanalysis: 6.34 ± 0.94. Activity confirmed by gamma spectroscopy (6.00 ± 1.42 pCi/L).				
STW-868	Water	Feb, 2000	Uranium	6.1 ± 3.0	0.9 - 11.3	5.4 ± 0.2;0.6
STW-869	Water	Mar, 2000	H-3	23800.0 ± 2380.0	19800.0 - 27800.0	23500.0 ± 306.0;3210.6
STW-867	Water	Mar, 2000	Gr. Alpha	58.4 ± 5.8	33.3 - 83.5	83.6 ± 5.8;11.7
		Results were recalculated with Am-241 efficiency; 57.80 ± 5.73 pCi/L. Refer to STW-863.				
STW-867	Water	Mar, 2000	Gr. Beta	16.8 ± 1.7	8.1 - 25.5	15.4 ± 0.9;2.5
STW-876	Water	Mar, 2000	I-131	19.9 ± 2.0	14.7 - 25.1	18.7 ± 0.6;2.0
STW-877	Water	Apr, 2000	Gr. Alpha	54.0 ± 13.5	30.8 - 77.2	52.3 ± 2.3;6.8
STW-877	Water	Apr, 2000	Ra-226	18.6 ± 2.8	13.8 - 23.4	17.5 ± 1.1;2.1
STW-877	Water	Apr, 2000	Ra-228	3.6 ± 0.9	2.0 - 5.1	3.7 ± 0.4;0.6
STW-878	Water	Apr, 2000	Co-60	16.9 ± 5.0	8.2 - 25.6	19.2 ± 0.6;2.8
STW-878	Water	Apr, 2000	Cs-134	86.4 ± 5.0	77.7 - 95.1	81.0 ± 1.3;11.7
STW-878	Water	Apr, 2000	Cs-137	123.0 ± 6.2	112.0 - 134.0	119.0 ± 2.6;17.3
STW-878	Water	Apr, 2000	Gr. Beta	289.0 ± 43.4	214.0 - 364.0	276.0 ± 9.6;43.6
STW-878	Water	Apr, 2000	Sr-89	50.7 ± 5.0	42.0 - 59.4	32.3 ± 3.3;4.6
STW-878	Water	Apr, 2000	Sr-90	32.8 ± 5.0	24.1 - 41.5	11.3 ± 1.0;1.5
		An error was found in calculation. Result of recalculation: Sr-89, 55.5± 7.2 pCi/L / Sr-90, 30.7 ± 3.0 pCi/L. Results of reanalysis: Sr-89, 47.4 ± 14.5 pCi/L / Sr-90, 33.0 ± 1.35 pCi/L. Both results are within limits.				
STW-879	Water	Jun, 2000	Ba-133	25.5 ± 5.0	16.8 - 34.2	22.4 ± 2.1;3.8

Table IV-1. Interlaboratory Comparison Crosscheck program, Environmental Resource Associates (ERA), comparison of ERA and Environmental, Inc. Midwest Laboratory results.[a]

				Concentration in pCi/L[b]		
Lab Code	Sample Type	Date Collected	Analysis	ERA Result[c] 1s, N=1	Control Limits	Laboratory Results ± 2 Sigma[d]
STW-879	Water	Jun, 2000	Co-60	65.6 ± 5.0	56.9 - 74.3	69.9 ± 3.7;10.7
STW-879	Water	Jun, 2000	Cs-134	13.8 ± 5.0	5.1 - 22.5	13.5 ± 0.8;2.1
STW-879	Water	Jun, 2000	Cs-137	238.0 ± 11.9	217.0 - 259.0	232.0 ± 7.8;34.3
STW-879	Water	Jun, 2000	Zn-65	54.6 ± 5.5	45.3 - 63.9	50.9 ± 3.8;8.2
STW-880	Water	Jun, 2000	Ra-226	3.0 ± 0.5	2.2 - 3.8	2.8 ± 0.2;0.3
STW-880	Water	Jun, 2000	Ra-228	13.0 ± 3.3	7.4 - 18.6	10.0 ± 0.9;1.4
STW-880	Water	Jun, 2000	Uranium	63.4 ± 6.3	52.6 - 74.2	57.0 ± 4.4;7.2
STW-883	Water	Jul, 2000	Gr. Alpha	7.2 ± 5.0	0.0 - 15.9	6.9 ± 1.1;1.4
STW-883	Water	Jul, 2000	Gr. Beta	87.5 ± 10.0	70.2 - 105.0	88.8 ± 9.8;16.8
STW-884	Water	Aug, 2000	H-3	8320.0 ± 832.0	6910.0 - 9730.0	8740.0 ± 174.0;1201.3
STW-891	Water	Sep, 2000	Ra-226	18.9 ± 2.8	14.0 - 23.8	17.9 ± 1.3;2.2
STW-891	Water	Sep, 2000	Ra-228	6.2 ± 1.6	3.5 - 8.8	5.7 ± 0.5;0.8
STW-891	Water	Sep, 2000	Uranium	11.9 ± 3.0	6.7 - 17.1	10.3 ± 0.1;1.0
STW-892	Water	Oct, 2000	I-131	15.9 ± 1.6	10.7 - 21.1	16.9 ± 0.3;1.7
STW-892	Water	Oct, 2000	I-131(g)	15.9 ± 1.6	10.7 - 21.1	17.1 ± 5.4;6.0
STW-893	Water	Oct, 2000	Gr. Alpha	74.4 ± 18.6	42.2 - 107.0	66.3 ± 5.3;9.7
STW-893	Water	Oct, 2000	Ra-226	10.5 ± 1.6	7.8 - 13.2	10.1 ± 1.0;1.4
STW-893	Water	Oct, 2000	Ra-228	19.4 ± 4.9	11.0 - 27.8	21.2 ± 0.5;2.2
STW-893	Water	Oct, 2000	Uranium	44.5 ± 4.5	36.8 - 52.2	41.4 ± 1.9;4.6
STW-894	Water	Oct, 2000	Co-60	91.1 ± 5.0	82.4 - 99.8	93.4 ± 1.6;13.5
STW-894	Water	Oct, 2000	Cs-134	59.8 ± 5.0	51.1 - 68.5	54.8 ± 0.3;7.9
STW-894	Water	Oct, 2000	Cs-137	45.0 ± 5.0	36.3 - 53.7	45.5 ± 2.3;7.0
STW-894	Water	Oct, 2000	Gr. Beta	256.0 ± 38.4	189.0 - 323.0	209.0 ± 7.9;33.1
STW-894	Water	Oct, 2000	Sr-89	41.3 ± 5.0	32.6 - 50.0	32.8 ± 3.0;4.4
STW-894	Water	Oct, 2000	Sr-90	18.0 ± 5.0	9.3 - 26.7	16.0 ± 2.4;2.9
STW-895	Water	Nov, 2000	Gr. Alpha	60.3 ± 15.1	34.4 - 86.2	50.3 ± 2.6;6.7
STW-895	Water	Nov, 2000	Gr. Beta	25.5 ± 5.0	16.8 - 34.2	28.6 ± 1.3;4.6

Table IV-1. Interlaboratory Comparison Crosscheck program, Environmental Resource Associates (ERA), comparison of ERA and Environmental, Inc. Midwest Laboratory results.[a]

				Concentration in pCi/L[b]		
Lab Code	Sample Type	Date Collected	Analysis	ERA Result[c] 1s, N=1	Control Limits	Laboratory Results ± 2 Sigma[d]
STW-896	Water	Nov, 2000	Ba-133	82.2 ± 8.2	68.0 - 96.4	78.0 ± 2.0;11.4
STW-896	Water	Nov, 2000	Co-60	27.8 ± 5.0	19.1 - 36.5	30.8 ± 1.7;4.7
STW-896	Water	Nov, 2000	Cs-134	76.0 ± 5.0	67.3 - 84.7	67.2 ± 3.3;10.2
		The mean value for Cs-134 of all participating laboratories was 70.7 pCi/L. Other gamma emitters are within limits, the counting efficiency is not suspect. Library values were reviewed and found to be correct.				
STW-896	Water	Nov, 2000	Cs-137	106.0 ± 5.3	96.8 - 115.0	109.0 ± 1.0;15.7
STW-896	Water	Nov, 2000	Zn-65	79.0 ± 7.9	65.3 - 92.7	81.5 ± 7.4;13.9

[a] Results obtained by Environmental, Inc., Midwest Laboratory as a participant in the environmental samples crosscheck program operated by Environmental Resources Associates (ERA).

[b] All results are in pCi/L, except for elemental potassium (K) data in milk, which are in mg/L; air filter samples which are in pCi/Filter.

[c] Results are presented as the known values, expected laboratory precision (1 sigma, 1 determination) and control limits as provided by ERA.

[d] Unless otherwise indicated, results are given as the mean ± 2 standard deviations for three determinations. The numbers after the semi-colon are the Total Propagated Uncertainty of the result.

Table IV-2. Department of Energy's Mixed Analyte Performance Evaluation Program (MAPEP) [a].

Lab Code	Sample Type	Date Collected	Analysis	Concentration in Bq/kg[b] MAPEP Result[d] 1s, N=1	Control Limits	Laboratory Results ±Standard Deviation[c]
STSO-882	SOIL	Jan, 2000	Am-241	61.1	42.8 - 79.4	64.9 ± 6.5;9.2
STSO-882	SOIL	Jan, 2000	Co-57	949.0	664.3 - 1,233.7	721.1 ± 83.8;110.6
The MAPEP soil sample (STSO-882), as received, did not closely match a standard gamma geometry. The results for gamma-emitting isotopes are reanalyses, with a reduced sample size.						
STSO-882	SOIL	Jan, 2000	Co-60	1,180.0	826.0 - 1,534.0	1,264.4 ± 78.6;148.9
STSO-882	SOIL	Jan, 2000	Cs-134	1,047.0	732.9 - 1,361.1	969.3 ± 76.9;123.7
STSO-882	SOIL	Jan, 2000	Cs-137	930.0	651.0 - 1,209.0	944.0 ± 92.0;131.8
STSO-882	SOIL	Jan, 2000	K-40	652.0	456.4 - 847.6	811.7 ± 79.9;113.9
STSO-882	SOIL	Jan, 2000	Mn-54	1,023.0	716.1 - 1,329.9	1,103.3 ± 64.2;127.6
STSO-882	SOIL	Jan, 2000	Ni-63	960.0	672.0 - 1,248.0	711.0 ± 71.1;100.6
STSO-882	SOIL	Jan, 2000	Pu-239/40	74.4	52.1 - 96.7	67.9 ± 6.8;9.6
STSO-882	SOIL	Jan, 2000	Sr-90	304.0	212.8 - 395.2	345.0 ± 34.5;48.8
STSO-882	SOIL	Jan, 2000	U-233/4	90.0	63.0 - 117.0	62.9 ± 6.3;8.9
Incomplete dissolution of the sample is suspected. Results of reanalysis: U-233/234, 67.3 ± 3.3 pCi/g, U-238, 68.1 ± 8.9 pCi/g.						
STSO-882	SOIL	Jan, 2000	U-238	93.0	65.1 - 120.9	63.2 ± 6.3;8.9
STSO-882	SOIL	Jan, 2000	Zn-65	1,540.0	1,078.0 - 2,002.0	1,544.3 ± 61.5;166.2

[a] Results obtained by Environmental Inc., Midwest Laboratory as a participant in the Department of Energy's Mixed Analyte Performance Evaluation Program, Idaho Operations office, Idaho Falls, Idaho.

[b] All results are in Bq/kg or Bq/L as requested by the Department of Energy.

[c] Unless otherwise indicated, laboratory results are given as the mean ± 1 standard deviations for three determinations.

[d] Results are presented as the known values, expected laboratory precision (1 sigma, 1 determination), and control limits as defined by the MAPEP.

Table IV-3. Environmental Measurements Laboratory Quality Assessment Program (EML)[a].

Lab Code	Sample Type	Date Collected	Analysis	Concentration in Bq/L[b] Teledyne Result[c]	EML Result[d]	Control Limits[e]
STSO-870	Soil	Mar, 2000	Ac-228	98.3 ± 7.1; 12.1	97.6 ± 4.2	0.8 - 1.4
STSO-870	Soil	Mar, 2000	Bi-212	98.5 ± 15.1; 18.0	106.0 ± 7.0	0.8 - 1.4
STSO-870	Soil	Mar, 2000	Bi-214	88.0 ± 3.8; 9.6	86.7 ± 3.8	0.8 - 1.4
STSO-870	Soil	Mar, 2000	Cs-137	324.0 ± 5.0; 32.8	339.0 ± 9.3	0.7 - 1.4
STSO-870	Soil	Mar, 2000	K-40	872.0 ± 34.0; 93.6	811.0 ± 29.0	0.7 - 1.6
STSO-870	Soil	Mar, 2000	Pb-212	93.7 ± 2.7; 9.8	97.3 ± 4.6	0.8 - 1.3
STSO-870	Soil	Mar, 2000	Pb-214	100.1 ± 3.7; 10.7	86.5 ± 6.8	0.8 - 1.3
STSO-870	Soil	Mar, 2000	Pu-238	19.8 ± 3.0; 3.6	18.6 ± 0.5	0.2 - 2.0
STSO-870	Soil	Mar, 2000	Pu-239/40	8.1 ± 1.7; 1.9	7.0 ± 0.3	0.6 - 2.0
STSO-870	Soil	Mar, 2000	Sr-90	13.6 ± 3.1; 3.4	20.2 ± 0.2	0.6 - 3.0
STVE-871	Vegetation	Mar, 2000	Am-241	9.8 ± 0.9; 1.3	10.4 ± 1.4	0.6 - 2.9
STVE-871	Vegetation	Mar, 2000	Co-60	46.5 ± 2.1; 6.7	52.8 ± 1.0	0.6 - 1.5
STVE-871	Vegetation	Mar, 2000	Cs-137	1,872.0 ± 46.0; 258.7	1,380.0 ± 20.0	0.8 - 1.5
STVE-871	Vegetation	Mar, 2000	K-40	506.4 ± 28.0; 57.9	521.0 ± 20.0	0.5 - 1.5
STVE-871	Vegetation	Mar, 2000	Pu-239/40	14.3 ± 1.5; 2.1	15.5 ± 2.1	0.6 - 2.0
STVE-871	Vegetation	Mar, 2000	Sr-90	1,198.0 ± 85.0; 146.9	1,780.0 ± 17.8	0.5 - 1.4
STAP-872	Air Filter	Mar, 2000	Co-57	5.9 ± 0.1; 0.6	5.3 ± 0.2	0.6 - 1.3
STAP-872	Air Filter	Mar, 2000	Co-60	5.9 ± 0.1; 0.6	5.3 ± 0.3	0.7 - 1.3
STAP-872	Air Filter	Mar, 2000	Cs-137	7.5 ± 0.1; 0.8	6.1 ± 0.3	0.7 - 1.3
STAP-872	Air Filter	Mar, 2000	Gr. Alpha	3.3 ± 0.1; 0.3	3.0 ± 0.3	0.8 - 1.6
STAP-872	Air Filter	Mar, 2000	Gr. Beta	2.7 ± 0.1; 0.3	2.4 ± 0.2	0.8 - 1.9
STAP-872	Air Filter	Mar, 2000	Mn-54	31.8 ± 0.3; 3.2	27.2 ± 0.8	0.8 - 1.3
STAP-872	Air Filter	Mar, 2000	Pu-238	0.1 ± 0.0; 0.0	0.1 ± 0.0	0.6 - 1.6
STAP-872	Air Filter	Mar, 2000	Pu-239/40	0.1 ± 0.0; 0.0	0.1 ± 0.0	0.7 - 1.6
STAP-872	Air Filter	Mar, 2000	Ru-106	3.5 ± 1.0; 1.1	2.0 ± 1.9	0.5 - 1.6
Result within activity ± error margin.						
STAP-872	Air Filter	Mar, 2000	Sr-90	0.3 ± 0.2; 0.2	0.2 ± 0.0	0.6 - 2.3
STAP-872	Air Filter	Mar, 2000	Uranium	0.1 ± 0.0; 0.0	0.1 ± 0.0	0.8 - 2.9
STW-874	Water	Mar, 2000	Am-241	1.7 ± 0.2; 0.3	2.0 ± 0.2	0.7 - 1.6
STW-874	Water	Mar, 2000	Co-60	51.0 ± 1.2; 7.4	48.9 ± 1.8	0.9 - 1.2
STW-874	Water	Mar, 2000	Cs-137	108.6 ± 1.8; 15.7	103.0 ± 4.0	0.9 - 1.2
STW-874	Water	Mar, 2000	Fe-55	33.0 ± 1.2; 3.5	33.1 ± 0.7	0.3 - 1.6
STW-874	Water	Mar, 2000	Gr. Alpha	1,217.0 ± 35.0; 152.5	1,700.0 ± 170.0	0.6 - 1.3
STW-874	Water	Mar, 2000	Gr. Beta	792.0 ± 25.0; 124.5	690.0 ± 70.0	0.8 - 1.7
STW-874	Water	Mar, 2000	H-3	147.0 ± 26.0; 32.8	79.4 ± 2.5	0.7 - 1.9
STW-874	Water	Mar, 2000	Ni-63	101.0 ± 6.0; 11.7	112.0 ± 11.0	0.8 - 1.3
STW-874	Water	Mar, 2000	Pu-238	0.8 ± 0.2; 0.2	0.9 ± 0.0	0.7 - 1.3
STW-874	Water	Mar, 2000	Pu-239/40	1.0 ± 0.1; 0.1	0.9 ± 0.0	0.6 - 1.4

Table IV-3. Environmental Measurements Laboratory Quality Assessment Program (EML)[a].

Lab Code	Sample Type	Date Collected	Analysis	Concentration in Bq/L[b] Teledyne Result[c]	EML Result[d]	Control Limits[e]
STW-874	Water	Mar, 2000	Sr-90	4.5 ± 1.0; 1.1	3.4 ± 0.1	0.7 - 1.4
STW-874	Water	Mar, 2000	Uranium	0.3 ± 0.0; 0.0	1.0 ± 0.1	0.4 - 1.5
Result reported was for U-234. Result for U (total); 0.58 ± 0.02 pCi/L.						
STSO-885	Soil	Sep, 2000	Ac-228	78.0 ± 1.5; 7.9	80.2 ± 3.6	0.8 - 1.4
STSO-885	Soil	Sep, 2000	Bi-212	73.0 ± 3.3; 8.0	80.5 ± 6.6	0.8 - 1.4
STSO-885	Soil	Sep, 2000	Bi-214	91.0 ± 4.0; 9.9	83.3 ± 4.2	0.8 - 1.4
STSO-885	Soil	Sep, 2000	Cs-137	925.7 ± 14.2; 93.7	1,020.0 ± 51.0	0.7 - 1.4
STSO-885	Soil	Sep, 2000	K-40	713.6 ± 7.1; 71.7	713.0 ± 38.0	0.7 - 1.6
STSO-885	Soil	Sep, 2000	Pb-212	66.1 ± 4.3; 7.9	79.3 ± 4.3	0.8 - 1.4
STSO-885	Soil	Sep, 2000	Pb-214	100.1 ± 3.7; 10.7	86.3 ± 4.3	0.8 - 1.4
STSO-885	Soil	Sep, 2000	Pu-239/40	18.4 ± 0.4; 1.9	16.8 ± 0.3	0.6 - 2.0
STSO-885	Soil	Sep, 2000	Sr-90	39.9 ± 5.3; 6.6	50.4 ± 2.0	0.6 - 3.0
STSO-885	Soil	Sep, 2000	Th-234	154.7 ± 9.3; 18.1	148.0 ± 10.0	0.8 - 1.4
STSO-885	Soil	Sep, 2000	Uranium	254.3 ± 13.0; 28.6	327.0 ± 11.0	0.3 - 1.5
STW-886	Water	Sep, 2000	Am-241	1.3 ± 0.2; 0.2	1.2 ± 0.0	0.7 - 1.6
STW-886	Water	Sep, 2000	Co-60	71.9 ± 7.2; 12.6	73.7 ± 2.9	0.9 - 1.2
STW-886	Water	Sep, 2000	Cs-137	62.7 ± 6.3; 11.0	67.0 ± 3.5	0.9 - 1.3
STW-886	Water	Sep, 2000	H-3	92.3 ± 8.9; 15.4	91.3 ± 0.3	0.7 - 1.9
STW-886	Water	Sep, 2000	Pu-238	0.7 ± 0.1; 0.1	0.8 ± 0.0	0.7 - 1.3
STW-886	Water	Sep, 2000	Pu-239/40	0.6 ± 0.1; 0.1	0.6 ± 1.0	0.6 - 1.4
STW-886	Water	Sep, 2000	Sr-90	4.6 ± 0.4; 0.6	4.5 ± 0.1	0.7 - 1.7
STW-886	Water	Sep, 2000	Uranium	0.8 ± 0.1; 0.1	0.9 ± 0.0	0.4 - 1.5
STW-887	Water	Sep, 2000	Gr. Alpha	1,113.7 ± 17.9; 137.0	1,070.0 ± 100.0	0.6 - 1.3
STW-887	Water	Sep, 2000	Gr. Beta	1,129.4 ± 16.7; 174.7	950.0 ± 90.0	0.8 - 1.7
STAP-888	Air Filter	Sep, 2000	Am-241	0.1 ± 0.0; 0.0	0.0 ± 0.0	0.6 - 1.9
STAP-888	Air Filter	Sep, 2000	Co-57	16.5 ± 0.6; 1.8	14.5 ± 0.5	0.6 - 1.3
STAP-888	Air Filter	Sep, 2000	Co-60	9.2 ± 0.4; 1.0	8.4 ± 0.5	0.7 - 1.3
STAP-888	Air Filter	Sep, 2000	Cs-137	8.8 ± 0.5; 1.0	7.4 ± 0.4	0.7 - 1.3
STAP-888	Air Filter	Sep, 2000	Mn-54	50.2 ± 2.3; 5.5	43.2 ± 1.3	0.8 - 1.4
STAP-888	Air Filter	Sep, 2000	Pu-238	0.0 ± 0.0; 0.0	0.0 ± 0.0	0.6 - 1.6
STAP-888	Air Filter	Sep, 2000	Pu-239/40	0.1 ± 0.0; 0.0	0.1 ± 0.0	0.7 - 1.6
STAP-888	Air Filter	Sep, 2000	Sr-90	3.3 ± 0.1; 0.3	1.6 ± 0.1	0.6 - 2.3
STAP-888	Air Filter	Sep, 2000	U-233/4	0.0 ± 0.0; 0.0	0.0 ± 0.0	0.8 - 2.9
STAP-888	Air Filter	Sep, 2000	U-238	0.0 ± 0.0; 0.0	0.0 ± 0.0	0.8 - 2.6
Result within activity ± error margin.						
STAP-888	Air Filter	Sep, 2000	Uranium	0.1 ± 0.0; 0.0	0.1 ± 0.0	0.8 - 2.9
STAP-889	Air Filter	Sep, 2000	Gr. Alpha	2.8 ± 0.0; 0.3	2.4 ± 0.2	0.8 - 1.6
STAP-889	Air Filter	Sep, 2000	Gr. Beta	2.1 ± 0.0; 0.2	1.5 ± 0.2	0.8 - 1.9

Table IV-3. Environmental Measurements Laboratory Quality Assessment Program (EML)[a].

Lab Code	Sample Type	Date Collected	Analysis	Concentration in Bq/L[b] Teledyne Result[c]	EML Result[d]	Control Limits[e]
STVE-890	Vegetation	Sep, 2000	Am-241	5.9 ± 1.2; 1.3	5.6 ± 0.7	0.6 - 2.9
STVE-890	Vegetation	Sep, 2000	Cm-244	3.2 ± 0.1; 0.3	3.6 ± 0.3	0.4 - 1.9
STVE-890	Vegetation	Sep, 2000	Co-60	29.4 ± 0.4; 4.0	32.8 ± 1.3	0.6 - 1.5
STVE-890	Vegetation	Sep, 2000	Cs-137	739.3 ± 23.0; 103.1	867.0 ± 44.0	0.8 - 1.5
STVE-890	Vegetation	Sep, 2000	K-40	597.5 ± 49.3; 77.5	639.0 ± 34.0	0.5 - 1.5
STVE-890	Vegetation	Sep, 2000	Pu-239/40	4.5 ± 0.2; 0.5	9.6 ± 0.8	0.6 - 2.0
No reason for deviation was found with original result. The result of reanalysis; 12.1 ±1.1 Bq/kg.						
STVE-890	Vegetation	Sep, 2000	Sr-90	1,201.5 ± 117.3; 167.9	1,150.0 ± 94.0	0.5 - 1.4

[a] The Environmental Measurements Laboratory provides the following nuclear species : Air Filters, Soil, Tissue, Vegetation and Water. Teledyne does not participate in the Tissue program.

[b] Results are reported in Bq/L with the following exceptions: Air Filter results are reported in Bq/Filter, Soil results are reported in Bq/Kg, Vegetation results are reported in Bq/Kg. The results of elemental Uranium are reported in ug/filter^{-1}, g, or ml.

[c] Teledyne results are reported as the mean of three determinations±standard deviation;total promulgated uncertainty.

[d] The EML result listed is the mean of replicate determinations for each nuclide±the standard error of the mean.

[e] The control limits are reported by EML as the ratio of Reported Value / EML value and are established from percentiles of historic data distributions (1982-1992). The evaluation of this historic data and the development of the control limits is presented in DOE report EML-564.