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Subject: Dresden Nuclear Power Station Annual Radiological Environmental Operating Report for 2005

The attached "Annual Radiological Environmental Operating Report" is submitted in accordance with Section 6.9.A.3 of the Unit 1 Dresden Nuclear Power Station Technical Specifications and Section 5.6.2, "Annual Radiological Environmental Operating Report," of the Units 2 and 3 Technical Specifications. This report provides the results of the radiological environmental and meteorological monitoring programs for the 2005 calendar year.

Should you have any questions concerning this letter, please contact Mr. Pedro Salas, Regulatory Assurance Manager, at (815) 416-2800.

Respectfully,

Danny G. Bost
Site Vice President
Dresden Nuclear Power Station

Enclosure

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

IE25

Docket No: 50-010
50-237
50-249

DRESDEN NUCLEAR POWER STATION
UNITS 1, 2 and 3

Annual Radiological
Environmental Operating Report

1 January Through 31 December 2005

Prepared By

Teledyne Brown Engineering
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May 2006

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I. Summary and Conclusions

This report on the Radiological Environmental Monitoring Program conducted for the Dresden Nuclear Power Station (DNPS) by Exelon covers the period 1 January 2005 through 31 December 2005. During that time period, 1,317 analyses were performed on 1,205 samples. In assessing all the data gathered for this report it was concluded that the operation of DNPS had no adverse radiological impact on the environment.

Surface water samples were analyzed for concentrations of gross beta, tritium and gamma emitting nuclides. Ground water samples were analyzed for concentrations of tritium and gamma emitting nuclides. No gamma emitting nuclides were detected. Gross beta and tritium activities detected were consistent with those detected in previous years.

Fish (commercially and recreationally important species) and sediment samples were analyzed for concentrations of gamma emitting nuclides. No fission or activation products were detected in fish. Sediment samples had Cesium-137 concentrations consistent with levels observed in previous years. No plant-produced fission or activation products were found in sediment.

Air particulate samples were analyzed for concentrations of gross beta and gamma emitting nuclides. No fission or activation products were detected.

High sensitivity I-131 analyses were performed on weekly air samples. All results were less than the minimum detectable activity.

Cow milk samples were analyzed for concentrations of I-131 and gamma emitting nuclides. All I-131 results were below the minimum detectable activity. Concentrations of naturally occurring K-40 were found. No fission or activation products were found.

Food product samples were analyzed for concentrations of gamma emitting nuclides. No fission or activation products were detected.

Environmental gamma radiation measurements were performed quarterly using thermoluminescent dosimeters. Levels detected were consistent with those observed in previous years.

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II. Introduction

The Dresden Nuclear Power Station (DNPS), consisting of two 912 MWe boiling water reactors owned and operated by Exelon Corporation, is located in Grundy County, Illinois. Unit No. 1 went critical in 1960 and was retired in 1978. Unit No. 2 went critical on 16 June 1970. Unit No. 3 went critical on 02 November 1971. The site is located in northern Illinois, approximately 12 miles southwest of Joliet, Illinois at the confluence of the Des Plaines and Kankakee Rivers where they form the Illinois River.

This report covers those analyses performed by Teledyne Brown Engineering (TBE), Global Dosimetry, and Environmental Inc. Midwest Laboratory (EIML) on samples collected during the period 1 January 2005 through 31 December 2005.

A. Objective of the Radiological Environmental Monitoring Program (REMP)

The objectives of the REMP are to:

1. Provide data on measurable levels of radiation and radioactive materials in the site environs.

2. Evaluate the relationship between quantities of radioactive material released from the plant and resultant radiation doses to individuals from principal pathways of exposure.

B. Implementation of the Objectives

The implementation of the objectives is accomplished by:

1. Identifying significant exposure pathways.

2. Establishing baseline radiological data of media within those pathways.

3. Continuously monitoring those media before and during Station operation to assess Station radiological effects (if any) on man and the environment.

III. Program Description

A. Sample Collection

Samples for the DNPS REMP were collected for Exelon Nuclear by EIML.

This section describes the general collection methods used by EIML to obtain environmental samples for the DNPS REMP in 2005. Sample locations and descriptions can be found in Table B–1 and Figures B–1 and B-2, Appendix B. The collection methods used by EIML are listed in Table B-2.

Aquatic Environment

The aquatic environment was evaluated by performing radiological analyses on samples of surface water, ground water, fish, and sediment. Samples were collected weekly from three surface water locations (D-51, D-52 and D-54) and composited for analysis. Control locations were D-52 and D-54. Samples were collected quarterly from two well water locations (D-23 and D-35). All samples were collected in new unused plastic bottles, which were rinsed at least twice with source water prior to collection. Fish samples comprising the flesh of largemouth bass, channel catfish, and carp were collected semiannually at two locations, D-28 and D-46 (Control). Sediment samples composed of recently deposited substrate were collected at one location semiannually, D-27.

Atmospheric Environment

The atmospheric environment was evaluated by performing radiological analyses on samples of air particulate, airborne iodine, and milk. Airborne iodine and particulate samples were collected at twelve locations (D-01, D-02, D-03, D-04, D-07, D-08, D-10, D-12, D-13, D-14, D-45 and D-53). The control location was D-12. Airborne iodine and particulate samples were obtained at each location, using a vacuum pump with charcoal and glass fiber filters attached. The pumps were run continuously and sampled air at the rate of approximately one cubic foot per minute. The filters were replaced weekly and sent to the laboratory for analysis. Through October 2005, the air iodine samples were replaced biweekly and sent to the lab for analysis. Starting in November 2005, the air iodine samples were replaced weekly and sent to the lab for analysis.

Milk samples were collected biweekly at one control location (D-25) from May through October, and monthly from November through April. There are no milking animals within 10 km of the site. All samples were collected in new unused two gallon plastic bottles from the bulk tank at each location, preserved with sodium bisulfite, and shipped promptly to the laboratory.

Food products were collected annually in September at five locations (D-Control, D-Quad 1, D-Quad 2, D-Quad 3, and D-Quad 4). The control

location was D-Control. Various types of samples were collected and placed in new unused plastic bags, and sent to the laboratory for analysis.

Ambient Gamma Radiation

Direct radiation measurements were made using CaF_2 and LiF thermoluminescent dosimeters (TLD). Each location consisted of 2 TLD sets. The TLD locations were placed on and around the DNPS site as follows:

An inner ring consisting of 16 locations (D-101, D-102, D-103, D-104, D-105, D-106, D-107, D-108, D-109, D-110, D-111, D-112A, D-113, D-114, D-115 and D-116) at or near the site boundary.

An outer ring consisting of 16 locations (D-201, D-202, D-203, D-204, D-205, D-206, D-207, D-208, D-209, D-210, D-211, D-212, D-213, D-214, D-215 and D-216) approximately 5 to 10 km from the site.

An other set consisting of TLDs at the 11 air sampler locations (D-01, D-02, D-03, D-04, D-07, D-08, D-10, D-13, D-14, D-45 and D-53).

The balance of one location (D-12) representing the control area.

Two TLDs – each comprised of two CaF_2 and two LiF thermoluminescent phosphors enclosed in plastic – were placed at each location. The TLDs were exchanged quarterly and sent to Global Dosimetry for analysis.

B. Sample Analysis

This section describes the general analytical methodologies used by TBE and EIML to analyze the environmental samples for radioactivity for the DNPS REMP in 2005. The analytical procedures used by the laboratories are listed in Table B-2.

In order to achieve the stated objectives, the current program includes the following analyses:

1. Concentrations of beta emitters in surface water and air particulates.

2. Concentrations of gamma emitters in ground and surface water, air particulates, milk, fish, sediment and vegetation.

3. Concentrations of tritium in ground and surface water.

4. Concentrations of I-131 in air and milk.

5. Ambient gamma radiation levels at various site environs.

C. Data Interpretation

For the purpose of this report, Dresden Nuclear Power Station was considered operational at initial criticality. In addition, data were compared to previous years' operational data for consistency and trending. Several factors were important in the interpretation of the data:

1. Lower Limit of Detection and Minimum Detectable Concentration

The lower limit of detection (LLD) was defined as the smallest concentration of radioactive material in a sample that would yield a net count (above background) that would be detected with only a 5% probability of falsely concluding that a blank observation represents a "real" signal. The LLD was intended as a before the fact estimate of a system (including instrumentation, procedure and sample type) and not as an after the fact criteria for the presence of activity. All analyses were designed to achieve the required DNPS detection capabilities for environmental sample analysis.

The minimum detectable concentration (MDC) is defined above with the exception that the measurement is an after the fact estimate of the presence of activity.

2. Net Activity Calculation and Reporting of Results

Net activity for a sample was calculated by subtracting background activity from the sample activity. Since the REMP measures extremely small changes in radioactivity in the environment, background variations may result in sample activity being lower than the background activity effecting a negative number. An MDC was reported in all cases where positive activity was not detected.

Gamma spectroscopy results for each type of sample were grouped as follows:

For ground and surface water 12 nuclides, Mn-54, Co-58, Fe-59, Co-60, Zn-65, Zr-95, Nb-95, I-131, Cs-134, Cs-137, Ba-140, and La-140 were reported.

For fish nine nuclides, Mn-54, Co-58, Fe-59, Co-60, Zn-65, Nb/Zr-95, Cs-134, Cs-137 and Ba/La-140 were reported.

For sediment nine nuclides, Mn-54, Co-58, Fe-59, Co-60, Zn-95, Nb/Zr-95, Cs-134, Cs-137 and Ba/La-140 were reported.

For air particulate nine nuclides, Mn-54, Co-58, Fe-59, Co-60, Zn-65, Nb/Zr-95, Cs-134, Cs-137 and Ba/La-140 were reported.

For milk 10 nuclides, Mn-54, Co-58, Fe-59, Co-60, Zn-65, Nb/Zr-95, Cs-134, Cs-137, Ba-140 and La-140 were reported.

For vegetation 10 nuclides, Mn-54, Co-58, Fe-59, Co-60, Zn-65, Nb/Zr-95, I-131, Cs-134, Cs-137 and Ba/La-140 were reported.

Means and standard deviations of the results were calculated. The standard deviations represent the variability of measured results for different samples rather than single analysis uncertainty.

D. Program Exceptions

For 2005 the DNPS REMP had a sample recovery rate in excess of 99%. Sample anomalies and missed samples are listed in the tables below:

Table D-1 LISTING OF SAMPLE ANOMALIES

Sample Type	Location Code	Collection Date	Reason
AP	D-04	01/07/05 – 01/14/05	Low reading of 98.3 hours due to pump malfunction; collector removed pump for service
AI	D-07	06/10/05 – 06/24/05	Due to pump malfunction, air iodine sample was analyzed with 1 week plus 51.2 hours run time
AP/I	D-01	09/09/05 – 09/16/05	Low timer reading of 163.3 hours; cause was unknown
AP/I	D-03	09/09/05 – 09/16/05	Low timer reading of 163.3 hours; cause was unknown
AP/I	D-04	09/09/05 – 09/16/05	Low timer reading of 163.3 hours; cause was unknown

Table D-2 LISTING OF MISSED SAMPLES

Sample Type	Location Code	Collection Date	Reason
AP	D-02	12/31/04 – 09/16/05	Power was not available to the sampling station
AP	D-07	06/10/05 – 06/17/05	Inadequate air flow due to pump malfunction
AP	D-02	07/01/05 – 09/30/05	Due to power outage, only two samples were available for the 3rd quarter 2005 composite.
TLD	D-103-1	12/31/04 – 04/01/05	TLD was discovered missing. TLD was attached to a tree that was removed.

Each program exception was reviewed to understand the causes of the program exception. Sampling and maintenance errors were reviewed with the personnel involved to prevent recurrence. Occasional equipment breakdowns and power outages were unavoidable.

The overall sample recovery rate indicates that the appropriate procedures and equipment are in place to assure reliable program implementation.

E. Program Changes

Beginning in the third quarter 2005, Teledyne Brown Engineering Environmental Services became the primary laboratory and EIML became the QC laboratory. Due to the change, the data tables and summary table presented in this report will appear different from previously submitted reports. This year, only the detected and non-detected results will be presented in the data tables. As a result of this change, the first half of the year data tables will display LLD (Lower Limit of Detection) values for non-detected nuclides and the second half of the year data tables will display MDC (Minimum Detectable Concentration) values for non-detected nuclides. The summary table will include a longer list of gamma nuclides. The data points for non-detects in the figures will consist of LLD values for the first half of the year and MDC values for the second half of the year.

A new air sampling station (D-55 on Ridge Road in Minooka) was placed in service on 08/26/05 for gathering of comparison data. This monitor will replace D-13.

Starting with the third quarter of 2005, all far-field air particulate samples were analyzed.

Starting on November 4, 2005, air iodine samples were submitted and analyzed weekly.

IV. Results and Discussion

A. Aquatic Environment

1. Surface Water

Samples were taken weekly and composited for analysis at three locations (D-51, D-52 and D-54). Of these locations only D-51 located downstream, could be affected by Dresden's effluent releases. The following analyses were performed:

Gross Beta

Monthly composites from all locations were analyzed for concentrations of gross beta (Table C–I.1, Appendix C). The values ranged from <4.0 to 11.3 pCi/l. Concentrations detected were consistent with those detected in previous years (Figures C–1 and C–2, Appendix C).

Tritium

Quarterly composites from all locations were analyzed for tritium activity (Table C–I.2, Appendix C). Indicator values ranged from <200 to 479 pCi/L. Control values ranged from <169 to 720 pCi/L. Concentrations detected were consistent with those detected in previous years (Figures C–3 and C–4, Appendix C).

Gamma Spectrometry

Monthly composites from all locations were analyzed for gamma emitting nuclides (Table C–I.3, Appendix C). No nuclides were detected, and all required LLDs were met.

2. Ground Water

Quarterly grab samples were collected at two locations (D-23 and D-35). These locations could be affected by Dresden's effluent releases and by sources upstream on the Kankakee River. The following analyses were performed:

Tritium

Quarterly grab samples from the locations were analyzed for tritium activity (Table C–II.1, Appendix C). D-35 values ranged from <158 to <200 pCi/L. D-23 values ranged from 548 to 830 pCi/L. Concentrations detected were consistent with those detected in previous years (Figure C–5, Appendix C).

Gamma Spectrometry

Samples from all locations were analyzed for gamma emitting nuclides (Table C–II.2, Appendix C). No nuclides were detected, and all required LLDs were met.

3. Fish

Fish samples comprised of largemouth bass, channel catfish, and carp were collected at two locations (D-28 and D-46) semiannually. Location D-28 could be affected by Dresden's effluent releases. The following analysis was performed:

Gamma Spectrometry

The edible portion of fish samples from both locations was analyzed for gamma emitting nuclides (Table C–III.1, Appendix C). Naturally occurring K-40 was found at all stations and ranged from 2,920 to 3,590 pCi/kg wet. No fission or activation products were detected.

4. Sediment

Aquatic sediment samples were collected at one location (D-27) semiannually. This downstream location could be affected by Dresden's effluent releases. The following analysis was performed:

Gamma Spectrometry

Sediment samples from the location were analyzed for gamma emitting nuclides (Table C–IV.1, Appendix C). Nuclides detected were naturally occurring K-40, Ra-226, Th-232 and the fission product Cs-137.

K-40, Ra-226 and Th-232 were found at the station at concentrations of 12,200, 1,660, and 478 pCi/kg dry, respectively. Concentrations of the fission product Cs-137 was found in one of two samples at a concentration of 68 pCi/kg dry. The activity detected was consistent with those detected in previous years and is likely due to fallout from above-ground nuclear weapons testing. No other fission or activation products were detected.

5. Dredging Spoils

According to the Army Corps of Engineers in September 2005, no dredging was performed within one mile of Dresden Station in the past year. Therefore, no sampling of dredging spoils was performed.

B. Atmospheric Environment

1. Airborne

a. Air Particulates

Continuous air particulate samples were collected from 12 locations on a weekly basis. The 12 locations were separated into four groups: On-site samplers (D-01, D-02, D-03), Near-field samplers within 4 km of the site (D-04, D-07, D-45, and D-53), Far-field samplers between 4 and 10 km from the site (D-08, D-10, D-13, D-14) and the Control sampler between 10 and 30 km from the site (D-12). Far field samples are not required to be analyzed unless the respective near field sample results are inconsistent with previous measurements and radioactivity is confirmed as having its origin in airborne effluents from the station, or at the discretion of the Radiation Protection Director. Starting with the third quarter of 2005, all far-field samples were analyzed. The following analyses were performed:

Gross Beta

Weekly samples were analyzed for concentrations of beta emitters (Table C–V.1 and C–V.2, Appendix C).

Detectable gross beta activity was observed at all locations. Comparison of results among the four groups aid in determining the effects, if any, resulting from the operation of DNPS. The results from the On-Site locations ranged from <6 to 46 E–3 pCi/m^3 with a mean of 21 E–3 pCi/m^3. The results from the Near-Field locations ranged from 4 to 54 E–3 pCi/m^3 with a mean of 22 E–3 pCi/m^3. The results from the Far-Field locations ranged from 7 to 48 E–3 pCi/m^3 with a mean of 22 E–3 pCi/m^3. The results from the Control location ranged from 8 to 48 E–3 pCi/m^3 with a mean of 22 E–3 pCi/m^3. Comparison of the 2005 air particulate data with previous years data indicate no effects from the operation of DNPS. In addition a comparison of the weekly mean values for 2005 indicate no notable differences among the four groups (Figures C–6 through C-11, Appendix C).

Gamma Spectrometry

Samples were composited quarterly and analyzed for gamma emitting nuclides (Table C–V.3, Appendix C). Naturally occurring Be-7 due to cosmic ray activity was detected in 22 of 23 samples and naturally occurring K-40 was detected in one sample. The Be-7 values ranged from 34 to 94 E–3 pCi/m^3. K-40 was found at a concentration of 64 E-3 pCi/m^3. No other nuclides were detected, and all required LLDs were met.

b. Airborne Iodine

Continuous air samples were collected from 12 locations (D-01, D-02, D-03, D-04, D-07, D-08, D-10, D-12, D-13, D-14, D-45 and D-53) and analyzed bi-weekly or weekly for I-131 (Table C–VI.1, Appendix C). No nuclides were detected, and all required LLDs were met. Weekly analysis began on November 4, 2005.

2. Terrestrial

a. Milk

Samples were collected from one location (D-25) biweekly May through October and monthly November through April. The following analyses were performed:

Iodine-131

Milk samples from the location were analyzed for concentrations of I-131 (Table C–VII.1, Appendix C). No nuclides were detected, and all required LLDs were met.

Gamma Spectrometry

Each milk sample was analyzed for concentrations of gamma emitting nuclides (Table C–VII.2, Appendix C).

Naturally occurring K-40 activity was quantified in the last half of 2005 and was found in all nine samples. The activities ranged from 1,220 to 1,680 pCi/l. No other nuclides were detected, and all required LLDs were met.

b. Food Products

Food product samples were collected at five locations (D-Control, D-Quad 1, D-Quad 2, D-Quad 3 and D-Quad 4) when available. Four locations, (D-Quad 1, D-Quad 2, D-Quad 3 and D-Quad 4) could be affected by Dresden's effluent releases. The following analysis was performed:

Gamma Spectrometry

Samples from all locations were analyzed for gamma emitting nuclides (Table C–VIII.1, Appendix C). No nuclides were detected, and all required LLDs were met.

C. Ambient Gamma Radiation

Ambient gamma radiation levels were measured utilizing Global Dosimetry 110 Environmental (CaF_2 and LiF) thermoluminescent dosimeters. Forty-four TLD locations were established around the site. Results of TLD measurements are listed in Tables C–IX.1 to C–IX.3, Appendix C. Most TLD measurements were below 30 mR/quarter, with a range of 17 to

31 mR/quarter. A comparison of the Inner Ring, Outer Ring, and Other locations' data to the Control Location data, indicate that the ambient gamma radiation levels from the Control location (D-12-01, D-12-02) were comparable.

D. Land Use Survey

A Land Use Survey conducted on 29 August 2005 around the Dresden Nuclear Power Station (DNPS) was performed by EIML for Exelon Nuclear to comply with Section 12.5.2 of the Dresden Offsite Dose Calculation Manual (ODCM). The purpose of the survey was to document the nearest resident or industrial facility, milk producing animal, and livestock in each of the sixteen 22 ½ degree sectors within 10 km around the site. There were no changes required to the DNPS REMP as a result of this survey. The results of this survey are summarized below.

Distance in Miles from the DNPS Reactor Buildings			
Sector	Residence Miles	Livestock Miles	Milk Farm Miles
A N	1.5	1.4	-
B NNE	0.8	6.0	-
C NE	0.8	2.5	-
D ENE	0.7	4.7	-
E E	1.1	-	-
F ESE	1.0	-	-
G SE	0.6	-	-
H SSE	0.5	-	-
J S	0.5	-	16.0
K SSW	3.3	-	-
L SW	3.6	-	11.4
M WSW	5.8	-	-
N W	3.5	0.5	-
P WNW	3.7	0.5	-
Q NW	2.6	0.5	-
R NNW	0.8	1.0	-

E. Errata Data

During an Exelon Nuclear Oversight audit, it was discovered that the 2003 AREOR did not contain I-131 data for surface water or ground water. The analyses were performed and included in the EIML 2003 Final Progress Report, but were not included in the 2003 AREOR.

Pages containing the surface water and ground water I-131 results for 2003 are attached in Appendix E.

F. Summary of Results – Inter-Laboratory Comparison Program

The primary and secondary laboratories analyzed Performance Evaluation (PE) samples of air particulate, air iodine, milk, soil, vegetation and water matrices (Appendix D). The PE samples, supplied by Analytics Inc., Environmental Resource Associates (ERA) and DOE's Mixed Analyte Performance Evaluation Program (MAPEP), were evaluated against the following pre-set acceptance criteria:

1. Analytics Evaluation Criteria

   Analytics' evaluation report provides a ratio of laboratory results and Analytics' known value. Since flag values are not assigned by Analytics, TBE-ES evaluates the reported ratios based on internal QC requirements, which are based on the DOE MAPEP criteria.

2. ERA Evaluation Criteria

   ERA's evaluation report provides an acceptance range for control and warning limits with associated flag values. ERA's acceptance limits are established per the USEPA, NELAC, state specific PT program requirements or ERA's SOP for the Generation of Performance Acceptance Limits, as applicable. The acceptance limits are either determined by a regression equation specific to each analyte or a fixed percentage limit promulgated under the appropriate regulatory document.

3. DOE Evaluation Criteria

   MAPEP's evaluation report provides an acceptance range with associated flag values.

   The MAPEP defines three levels of performance: Acceptable (flag = "A"), Acceptable with Warning (flag = "W"), and Not Acceptable (flag = "N"). Performance is considered acceptable when a mean result for the specified analyte is ± 20% of the reference value. Performance is acceptable with warning when a mean result falls in the range from ±20% to ±30% of the reference value (i.e., 20% < bias < 30%). If the bias is greater than 30%, the results are deemed not acceptable.

For the primary laboratory, 18 out of 19 analytes met the specified acceptance criteria. One sample did not meet the specified acceptance criteria for the following reason:

1. Teledyne Brown Engineering's Analytics' September 2005 air particulate Fe-59 ratio of 1.35 exceeded the upper control limit of 1.30 due to a new technician not counting the air particulate in a petri dish.

For the secondary laboratory, 19 out of 23 analytes met the specified acceptance criteria. Four samples did not meet the specified acceptance criteria for the following reasons:

1. EIML's ERA's November 2005 water Gross Alpha result of 41.1 pCi/l exceeded the upper control limit of 33.4 pCi/l. This was due to using an Am-241 efficiency instead of a Th-232 efficiency when counting the sample. Using the correct efficiency gave a result of 27.0 pCi/l.

2. EIML's ERA's November 2005 water Ra-228 result of 5.5 pCi/l exceeded the upper control limit of 5.0 pCi/l due to presence of radium daughters. Delay in counting 100 minutes gave a result of 4.01 pCi/l.

3. EIML's MAPEP's January 2005 air particulate Sr-90 result of 2.2 exceeded the upper control limit of 1.76 Bq/kg. Reanalysis result was 1.56 Bq/kg.

4. EIML's MAPEP's July 2005 soil Am-241 result of 48.4 exceeded the lower control limit of 56.77 Bq/kg due to incorrect sample weight being used in the calculation. When recalculated with the correct sample weight, the result was 97.0 Bq/kg.

The Inter-Laboratory Comparison Program provides evidence of "in control" counting systems and methods, and that the laboratories are producing accurate and reliable data.

APPENDIX A

RADIOLOGICAL ENVIRONMENTAL MONITORING REPORT SUMMARY

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 1ST QUARTER SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY: DRESDEN
LOCATION OF FACILITY: MORRIS, IL
DOCKET NUMBER: 50-010, 50-237 & 50-249
REPORTING PERIOD: 1ST QUARTER 2005

MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR LOCATIONS MEAN (F) RANGE	CONTROL LOCATION MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
SURFACE WATER (PCI/LITER)	GR-B	9	4	4.5 (3/3) (4.0/5.5)	6.2 (2/6) (6.1/6.4)	6.2 (2/3) (6.1/6.4)	D-52 CONTROL DESPLAINES RIVER - UPSTREAM 0.9 MILES ESE OF SITE	0
	H-3	3	200	<LLD	<LLD	-	-	0
	GAMMA	9						
	MN-54		15	<LLD	<LLD	-	-	0
	CO-58		15	<LLD	<LLD	-	-	0
	FE-59		30	<LLD	<LLD	-	-	0
	CO-60		15	<LLD	<LLD	-	-	0
	ZN-65		30	<LLD	<LLD	-	-	0
	NB-95		15	<LLD	<LLD	-	-	0

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 1ST QUARTER SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY: DRESDEN
LOCATION OF FACILITY: MORRIS, IL
DOCKET NUMBER: 50-010, 50-237 & 50-249
REPORTING PERIOD: 1ST QUARTER 2005

MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR LOCATIONS MEAN (F) RANGE	CONTROL LOCATION MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
	ZR-95		30	<LLD	<LLD	-	-	0
	I-131		15	<LLD	<LLD	-	-	0
	CS-134		15	<LLD	<LLD	-	-	0
	CS-137		18	<LLD	<LLD	-	-	0
	BA-140		60	<LLD	<LLD	-	-	0
	LA-140		15	<LLD	<LLD	-	-	0
GROUND WATER (PCI/LITER)	H-3	2	200	737 (1/2)	N/A	737 (1/1)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0
	GAMMA	2						
	MN-54		15	<LLD	N/A	-	-	0

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 1ST QUARTER SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY: DRESDEN
LOCATION OF FACILITY: MORRIS, IL
DOCKET NUMBER: 50-010, 50-237 & 50-249
REPORTING PERIOD: 1ST QUARTER 2005

MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR LOCATIONS MEAN (F) RANGE	CONTROL LOCATION MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
	CO-58		15	<LLD	N/A	-	-	0
	FE-59		30	<LLD	N/A	-	-	0
	CO-60		15	<LLD	N/A	-	-	0
	ZN-65		30	<LLD	N/A	-	-	0
	NB-95		15	<LLD	N/A	-	-	0
	ZR-95		30	<LLD	N/A	-	-	0
	I-131		15	<LLD	N/A	-	-	0
	CS-134		15	<LLD	N/A	-	-	0

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 1ST QUARTER SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY: DRESDEN
LOCATION OF FACILITY: MORRIS, IL
DOCKET NUMBER: 50-010, 50-237 & 50-249
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MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR LOCATIONS MEAN (F) RANGE	CONTROL LOCATION MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
	CS-137		18	<LLD	N/A	-	-	0
	BA-140		60	<LLD	N/A	-	-	0
	LA-140		15	<LLD	N/A	-	-	0
AIR PARTICULATE (E-3 PCI/CU.METER)	GR-B	84	10	26 (72/72) (13/48)	26 (12/12) (14/38)	29 (12/12) (15/48)	D-04 INDICATOR COLLINS ROAD 0.9 MILES W OF SITE	0
	GAMMA	7						
	MN-54		N/A	<LLD	<LLD	-	-	0
	CO-58		N/A	<LLD	<LLD	-	-	0
	FE-59		N/A	<LLD	<LLD	-	-	0
	CO-60		N/A	<LLD	<LLD	-	-	0

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 1ST QUARTER SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY: DRESDEN
LOCATION OF FACILITY: MORRIS, IL
DOCKET NUMBER: 50-010, 50-237 & 50-249
REPORTING PERIOD: 1ST QUARTER 2005

MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR LOCATIONS MEAN (F) RANGE	CONTROL LOCATION MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
	ZN-65		N/A	<LLD	<LLD	-	-	0
	ZRNB-95		N/A	<LLD	<LLD	-	-	0
	CS-134		50	<LLD	<LLD	-	-	0
	CS-137		60	<LLD	<LLD	-	-	0
	BALA140		N/A	<LLD	<LLD	-	-	0
AIR IODINE (E-3 PCI/CU.METER)	I-131	42	70	<LLD	<LLD	-	-	0
MILK (PCI/LITER)	I-131	3	1	N/A	<LLD	-	-	0
	GAMMA	3						
	MN-54		N/A	N/A	<LLD	-	-	0

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 1ST QUARTER SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY: DRESDEN
LOCATION OF FACILITY: MORRIS, IL
DOCKET NUMBER: 50-010, 50-237 & 50-249
REPORTING PERIOD: 1ST QUARTER 2005

MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR LOCATIONS MEAN (F) RANGE	CONTROL LOCATION MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
	CO-58		N/A	N/A	<LLD	-	-	0
	FE-59		N/A	N/A	<LLD	-	-	0
	CO-60		N/A	N/A	<LLD	-	-	0
	ZN-65		N/A	N/A	<LLD	-	-	0
	ZRNB-95		N/A	N/A	<LLD	-	-	0
	CS-134		15	N/A	<LLD	-	-	0
	CS-137		18	N/A	<LLD	-	-	0
	BA-140		60	N/A	<LLD	-	-	0

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 1ST QUARTER SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY:	DRESDEN				DOCKET NUMBER:		50-010, 50-237 & 50-249	
LOCATION OF FACILITY:	MORRIS, IL				REPORTING PERIOD:		1ST QUARTER 2005	
				INDICATOR LOCATIONS	CONTROL LOCATION	LOCATION WITH HIGHEST ANNUAL MEAN		
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	MEAN (F) RANGE	MEAN (F) RANGE	MEAN (F) RANGE	STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
	LA-140		15	N/A	<LLD	-	-	0
DIRECT RADIATION (MILLI-ROENTGEN/QUARTER)	TLD-QUARTERLY	87	N/A	22.9 (85/85) (18/28)	22.0 (2/2) (21/23)	28.0 (1/1)	D-110-3* INDICATOR 0.8 MILES SSW OF SITE	0

* Location D-110-3, D-214-2 and D-215-1 had identical results of 28.0 mR. Only D-110-3 is detailed in this summary.

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 2ND QUARTER SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY: DRESDEN
LOCATION OF FACILITY: MORRIS, IL
DOCKET NUMBER: 50-010, 50-237 & 50-249
REPORTING PERIOD: 2ND QUARTER 2005

MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR LOCATIONS MEAN (F) RANGE	CONTROL LOCATION MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
SURFACE WATER (PCI/LITER)	GR-B	9	4	6.3 (1/3)	5.9 (3/6) (4.1/8.7)	6.9 (2/3) (5.1/8.7)	D-52 CONTROL DESPLAINES RIVER - UPSTREAM 0.9 MILES ESE OF SITE	0
	H-3	3	200	262 (1/1)	<LLD	262 (1/1)	D-51 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.5 MILES NW OF SITE	0
	GAMMA	9						
	MN-54		15	<LLD	<LLD	-	-	0
	CO-58		15	<LLD	<LLD	-	-	0
	FE-59		30	<LLD	<LLD	-	-	0
	CO-60		15	<LLD	<LLD	-	-	0
	ZN-65		30	<LLD	<LLD	-	-	0
	NB-95		15	<LLD	<LLD	-	-	0

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 2ND QUARTER SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY: DRESDEN
LOCATION OF FACILITY: MORRIS, IL
DOCKET NUMBER: 50-010, 50-237 & 50-249
REPORTING PERIOD: 2ND QUARTER 2005

MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR LOCATIONS MEAN (F) RANGE	CONTROL LOCATION MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
	ZR-95		30	<LLD	<LLD	-	-	0
	I-131		15	<LLD	<LLD	-	-	0
	CS-134		15	<LLD	<LLD	-	-	0
	CS-137		18	<LLD	<LLD	-	-	0
	BA-140		60	<LLD	<LLD	-	-	0
	LA-140		15	<LLD	<LLD	-	-	0
GROUND WATER (PCI/LITER)	H-3	2	200	653 (1/2)	N/A	653 (1/1)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0
	GAMMA	2						
	MN-54		15	<LLD	N/A	-	-	0

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 2ND QUARTER SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY: DRESDEN
LOCATION OF FACILITY: MORRIS, IL
DOCKET NUMBER: 50-010, 50-237 & 50-249
REPORTING PERIOD: 2ND QUARTER 2005

MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR LOCATIONS MEAN (F) RANGE	CONTROL LOCATION MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
	CO-58		15	<LLD	N/A	-	-	0
	FE-59		30	<LLD	N/A	-	-	0
	CO-60		15	<LLD	N/A	-	-	0
	ZN-65		30	<LLD	N/A	-	-	0
	NB-95		15	<LLD	N/A	-	-	0
	ZR-95		30	<LLD	N/A	-	-	0
	I-131		15	<LLD	N/A	-	-	0
	CS-134		15	<LLD	N/A	-	-	0

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 2ND QUARTER SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY:	DRESDEN				DOCKET NUMBER:		50-010, 50-237 & 50-249	
LOCATION OF FACILITY:	MORRIS, IL				REPORTING PERIOD:		2ND QUARTER 2005	
				INDICATOR LOCATIONS	CONTROL LOCATION	LOCATION WITH HIGHEST ANNUAL MEAN		
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	MEAN (F) RANGE	MEAN (F) RANGE	MEAN (F) RANGE	STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
	CS-137		18	<LLD	N/A	-	-	0
	BA-140		60	<LLD	N/A	-	-	0
	LA-140		15	<LLD	N/A	-	-	0
FISH (PCI/KG WET)	GAMMA	4						
	MN-54		130	<LLD	<LLD	-	-	0
	CO-58		130	<LLD	<LLD	-	-	0
	FE-59		260	<LLD	<LLD	-	-	0
	CO-60		130	<LLD	<LLD	-	-	0
	ZN-65		260	<LLD	<LLD	-	-	0

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 2ND QUARTER SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY: DRESDEN
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MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR LOCATIONS MEAN (F) RANGE	CONTROL LOCATION MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
	ZRNB-95		N/A	<LLD	<LLD	-	-	0
	CS-134		130	<LLD	<LLD	-	-	0
	CS-137		150	<LLD	<LLD	-	-	0
	BALA140		N/A	<LLD	<LLD	-	-	0
SEDIMENT (PCI/KG)	GAMMA	1						
	MN-54		N/A	<LLD	N/A	-	-	0
	CO-58		N/A	<LLD	N/A	-	-	0
	FE-59		N/A	<LLD	N/A	-	-	0
	CO-60		N/A	<LLD	N/A	-	-	0

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 2ND QUARTER SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY: DRESDEN
LOCATION OF FACILITY: MORRIS, IL
DOCKET NUMBER: 50-010, 50-237 & 50-249
REPORTING PERIOD: 2ND QUARTER 2005

MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR LOCATIONS MEAN (F) RANGE	CONTROL LOCATION MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
	ZN-65		N/A	<LLD	N/A	-	-	0
	ZRNB-95		N/A	<LLD	N/A	-	-	0
	CS-134		150	<LLD	N/A	-	-	0
	CS-137		180	<LLD	N/A	-	-	0
	BALA140		N/A	<LLD	N/A	-	-	0
AIR PARTICULATE (E-3 PCI/CU.METER)	GR-B	97	10	20 (82/83) (10/54)	20 (14/14) (13/41)	23 (12/13) (14/54)	D-07 INDICATOR CLAY PRODUCTS 2.0 MILES S OF SITE	0
	GAMMA MN-54	7	N/A	<LLD	<LLD	-	-	0
	CO-58		N/A	<LLD	<LLD	-	-	0

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 2ND QUARTER SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY: DRESDEN
LOCATION OF FACILITY: MORRIS, IL
DOCKET NUMBER: 50-010, 50-237 & 50-249
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MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR LOCATIONS MEAN (F) RANGE	CONTROL LOCATION MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
	FE-59		N/A	<LLD	<LLD	-	-	0
	CO-60		N/A	<LLD	<LLD	-	-	0
	ZN-65		N/A	<LLD	<LLD	-	-	0
	ZRNB-95		N/A	<LLD	<LLD	-	-	0
	CS-134		50	<LLD	<LLD	-	-	0
	CS-137		60	<LLD	<LLD	-	-	0
	BALA140		N/A	<LLD	<LLD	-	-	0
AIR IODINE (E-3 PCI/CU.METER)	I-131	49	70	<LLD	<LLD	-	-	0

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 2ND QUARTER SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY: DRESDEN
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DOCKET NUMBER: 50-010, 50-237 & 50-249
REPORTING PERIOD: 2ND QUARTER 2005

MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR LOCATIONS MEAN (F) RANGE	CONTROL LOCATION MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
MILK (PCI/LITER)	I-131	5	1	N/A	<LLD	-	-	0
	GAMMA	5						
	MN-54		N/A	N/A	<LLD	-	-	0
	CO-58		N/A	N/A	<LLD	-	-	0
	FE-59		N/A	N/A	<LLD	-	-	0
	CO-60		N/A	N/A	<LLD	-	-	0
	ZN-65		N/A	N/A	<LLD	-	-	0
	ZRNB-95		N/A	N/A	<LLD	-	-	0
	CS-134		15	N/A	<LLD	-	-	0

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 2ND QUARTER SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY: DRESDEN
LOCATION OF FACILITY: MORRIS, IL
DOCKET NUMBER: 50-010, 50-237 & 50-249
REPORTING PERIOD: 2ND QUARTER 2005

MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR LOCATIONS MEAN (F) RANGE	CONTROL LOCATION MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
	CS-137		18	N/A	<LLD	-	-	0
	BA-140		60	N/A	<LLD	-	-	0
	LA-140		15	N/A	<LLD	-	-	0
DIRECT RADIATION (MILLI-ROENTGEN/QUARTER)	TLD-QUARTERLY	88	N/A	23.3 (86/86) (17/30)	20.5 (2/2) (20/21)	30.0 (1/1)	D-201-1 INDICATOR 4.5 MILES N OF SITE	0

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 3RD QUARTER SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY: DRESDEN
LOCATION OF FACILITY: MORRIS, IL
DOCKET NUMBER: 50-010, 50-237 & 50-249
REPORTING PERIOD: 3RD QUARTER 2005

MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR LOCATIONS MEAN (F) RANGE	CONTROL LOCATION MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
SURFACE WATER (PCI/LITER)	GR-B	9	4	8.9 (3/3) (8.4/9.2)	7.9 (6/6) (4.6/11.3)	9.9 (3/3) (9.1/11.3)	D-52 CONTROL DESPLAINES RIVER - UPSTREAM 0.9 MILES ESE OF SITE	0
	H-3	3	200	<LLD	720 (1/2)	720 (1/1)	D-54 CONTROL KANKAKEE RIVER - UPSTREAM 8.5 MILES SE OF SITE	0
	GAMMA	9						
	MN-54		15	<LLD	<LLD	-	-	0
	CO-58		15	<LLD	<LLD	-	-	0
	FE-59		30	<LLD	<LLD	-	-	0
	CO-60		15	<LLD	<LLD	-	-	0
	ZN-65		30	<LLD	<LLD	-	-	0
	NB-95		15	<LLD	<LLD	-	-	0

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 3RD QUARTER SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY: DRESDEN
LOCATION OF FACILITY: MORRIS, IL
DOCKET NUMBER: 50-010, 50-237 & 50-249
REPORTING PERIOD: 3RD QUARTER 2005

MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR LOCATIONS MEAN (F) RANGE	CONTROL LOCATION MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
	ZR-95		30	<LLD	<LLD	-	-	0
	I-131		15	<LLD	<LLD	-	-	0
	CS-134		15	<LLD	<LLD	-	-	0
	CS-137		18	<LLD	<LLD	-	-	0
	BA-140		60	<LLD	<LLD	-	-	0
	LA-140		15	<LLD	<LLD	-	-	0
GROUND WATER (PCI/LITER)	H-3	2	200	830 (1/2)	N/A	830 (1/1)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0
	GAMMA	2						
	MN-54		15	<LLD	N/A	-	-	0

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 3RD QUARTER SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY:	DRESDEN				DOCKET NUMBER:		50-010, 50-237 & 50-249	
LOCATION OF FACILITY:	MORRIS, IL				REPORTING PERIOD:		3RD QUARTER 2005	
				INDICATOR LOCATIONS	CONTROL LOCATION	LOCATION WITH HIGHEST ANNUAL MEAN		
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	MEAN (F) RANGE	MEAN (F) RANGE	MEAN (F) RANGE	STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
	CO-58		15	<LLD	N/A	-	-	0
	FE-59		30	<LLD	N/A	-	-	0
	CO-60		15	<LLD	N/A	-	-	0
	ZN-65		30	<LLD	N/A	-	-	0
	NB-95		15	<LLD	N/A	-	-	0
	ZR-95		30	<LLD	N/A	-	-	0
	I-131		15	<LLD	N/A	-	-	0
	CS-134		15	<LLD	N/A	-	-	0

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 3RD QUARTER SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY: DRESDEN
LOCATION OF FACILITY: MORRIS, IL
DOCKET NUMBER: 50-010, 50-237 & 50-249
REPORTING PERIOD: 3RD QUARTER 2005

MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR LOCATIONS MEAN (F) RANGE	CONTROL LOCATION MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
	CS-137		18	<LLD	N/A	-	-	0
	BA-140		60	<LLD	N/A	-	-	0
	LA-140		15	<LLD	N/A	-	-	0
AIR PARTICULATE (E-3 PCI/CU.METER)	GR-B	145	10	20 (130/132) (7/43)	19 (13/13) (8/39)	21 (13/13) (8/42)	D-14 INDICATOR CHANNAHON 3.5 MILES NE OF SITE	0
	GAMMA	12						
	MN-54		N/A	<LLD	<LLD	-	-	0
	CO-58		N/A	<LLD	<LLD	-	-	0
	FE-59		N/A	<LLD	<LLD	-	-	0
	CO-60		N/A	<LLD	<LLD	-	-	0

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 3RD QUARTER SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY: DRESDEN
LOCATION OF FACILITY: MORRIS, IL
DOCKET NUMBER: 50-010, 50-237 & 50-249
REPORTING PERIOD: 3RD QUARTER 2005

MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR LOCATIONS MEAN (F) RANGE	CONTROL LOCATION MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
	ZN-65		N/A	<LLD	<LLD	-	-	0
	ZRNB-95		N/A	<LLD	<LLD	-	-	0
	CS-134		50	<LLD	<LLD	-	-	0
	CS-137		60	<LLD	<LLD	-	-	0
	BALA140		N/A	<LLD	<LLD	-	-	0
AIR IODINE (E-3 PCI/CU.METER)	I-131	79	70	<LLD	<LLD	-	-	0
MILK (PCI/LITER)	I-131	6	1	N/A	<LLD	-	-	0
	GAMMA	6						
	MN-54		N/A	N/A	<LLD	-	-	0

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 3RD QUARTER SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY: DRESDEN
LOCATION OF FACILITY: MORRIS, IL
DOCKET NUMBER: 50-010, 50-237 & 50-249
REPORTING PERIOD: 3RD QUARTER 2005

MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR LOCATIONS MEAN (F) RANGE	CONTROL LOCATION MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
	CO-58		N/A	N/A	<LLD	-	-	0
	FE-59		N/A	N/A	<LLD	-	-	0
	CO-60		N/A	N/A	<LLD	-	-	0
	ZN-65		N/A	N/A	<LLD	-	-	0
	ZRNB-95		N/A	N/A	<LLD	-	-	0
	CS-134		15	N/A	<LLD	-	-	0
	CS-137		18	N/A	<LLD	-	-	0
	BA-140		60	N/A	<LLD	-	-	0

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 3RD QUARTER SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY: DRESDEN
LOCATION OF FACILITY: MORRIS, IL
DOCKET NUMBER: 50-010, 50-237 & 50-249
REPORTING PERIOD: 3RD QUARTER 2005

MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR LOCATIONS MEAN (F) RANGE	CONTROL LOCATION MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
	LA-140		15	N/A	<LLD	-	-	0
FOOD PRODUCTS (PCI/KG WET)	GAMMA	10						
	MN-54		N/A	<LLD	<LLD	-	-	0
	CO-58		N/A	<LLD	<LLD	-	-	0
	FE-59		N/A	<LLD	<LLD	-	-	0
	CO-60		N/A	<LLD	<LLD	-	-	0
	ZN-65		N/A	<LLD	<LLD	-	-	0
	ZRNB-95		N/A	<LLD	<LLD	-	-	0
	I-131		60	<LLD	<LLD	-	-	0

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 3RD QUARTER SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY: DRESDEN **DOCKET NUMBER:** 50-010, 50-237 & 50-249
LOCATION OF FACILITY: MORRIS, IL **REPORTING PERIOD:** 3RD QUARTER 2005

MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR LOCATIONS MEAN (F) RANGE	CONTROL LOCATION MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
	CS-134		60	<LLD	<LLD	-	-	0
	CS-137		80	<LLD	<LLD	-	-	0
	BALA140		N/A	<LLD	<LLD	-	-	0
DIRECT RADIATION (MILLI-ROENTGEN/QUARTER)	TLD-QUARTERLY	88	N/A	21.5 (86/86) (17/26)	19.0 (2/2) (19/19)	26.0 (1/1)	D-110-3* INDICATOR 0.8 MILES SSW OF SITE	0

* Location D-110-3, D-201-2 and D-214-2 had identical results of 26.0 mR. Only D-110-3 is detailed in this summary.

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 4TH QUARTER SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY: DRESDEN
LOCATION OF FACILITY: MORRIS, IL
DOCKET NUMBER: 50-010, 50-237 & 50-249
REPORTING PERIOD: 4TH QUARTER 2005

MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR LOCATIONS MEAN (F) RANGE	CONTROL LOCATION MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
SURFACE WATER (PCI/LITER)	GR-B	9	4	8.0 (3/3) (5.9/9.1)	6.8 (6/6) (4.9/10.2)	8.0 (3/3) (5.9/9.1)	D-51 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.5 MILES NW OF SITE	0
	H-3	3	200	479 (1/1)	<LLD	479 (1/1)	D-51 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.5 MILES NW OF SITE	0
	GAMMA	9						
	MN-54		15	<LLD	<LLD	-	-	0
	CO-58		15	<LLD	<LLD	-	-	0
	FE-59		30	<LLD	<LLD	-	-	0
	CO-60		15	<LLD	<LLD	-	-	0
	ZN-65		30	<LLD	<LLD	-	-	0
	NB-95		15	<LLD	<LLD	-	-	0

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 4TH QUARTER SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY: DRESDEN
LOCATION OF FACILITY: MORRIS, IL
DOCKET NUMBER: 50-010, 50-237 & 50-249
REPORTING PERIOD: 4TH QUARTER 2005

MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR LOCATIONS MEAN (F) RANGE	CONTROL LOCATION MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
	ZR-95		30	<LLD	<LLD	-	-	0
	I-131		15	<LLD	<LLD	-	-	0
	CS-134		15	<LLD	<LLD	-	-	0
	CS-137		18	<LLD	<LLD	-	-	0
	BA-140		60	<LLD	<LLD	-	-	0
	LA-140		15	<LLD	<LLD	-	-	0
GROUND WATER (PCI/LITER)	H-3	2	200	548 (1/2)	N/A	548 (1/1)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0
	GAMMA	2						
	MN-54		15	<LLD	N/A	-	-	0

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 4TH QUARTER SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY:	DRESDEN				DOCKET NUMBER:		50-010, 50-237 & 50-249	
LOCATION OF FACILITY:	MORRIS, IL				REPORTING PERIOD:		4TH QUARTER 2005	
				INDICATOR LOCATIONS	CONTROL LOCATION	LOCATION WITH HIGHEST ANNUAL MEAN		
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	MEAN (F) RANGE	MEAN (F) RANGE	MEAN (F) RANGE	STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
	CO-58		15	<LLD	N/A	-	-	0
	FE-59		30	<LLD	N/A	-	-	0
	CO-60		15	<LLD	N/A	-	-	0
	ZN-65		30	<LLD	N/A	-	-	0
	NB-95		15	<LLD	N/A	-	-	0
	ZR-95		30	<LLD	N/A	-	-	0
	I-131		15	<LLD	N/A	-	-	0
	CS-134		15	<LLD	N/A	-	-	0

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 4TH QUARTER SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY: DRESDEN
LOCATION OF FACILITY: MORRIS, IL
DOCKET NUMBER: 50-010, 50-237 & 50-249
REPORTING PERIOD: 4TH QUARTER 2005

MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR LOCATIONS MEAN (F) RANGE	CONTROL LOCATION MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
	CS-137		18	<LLD	N/A	-	-	0
	BA-140		60	<LLD	N/A	-	-	0
	LA-140		15	<LLD	N/A	-	-	0
FISH (PCI/KG WET)	GAMMA	4						
	MN-54		130	<LLD	<LLD	-	-	0
	CO-58		130	<LLD	<LLD	-	-	0
	FE-59		260	<LLD	<LLD	-	-	0
	CO-60		130	<LLD	<LLD	-	-	0
	ZN-65		260	<LLD	<LLD	-	-	0

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 4TH QUARTER SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY: DRESDEN
LOCATION OF FACILITY: MORRIS, IL
DOCKET NUMBER: 50-010, 50-237 & 50-249
REPORTING PERIOD: 4TH QUARTER 2005

MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR LOCATIONS MEAN (F) RANGE	CONTROL LOCATION MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
	ZRNB-95		N/A	<LLD	<LLD	-	-	0
	CS-134		130	<LLD	<LLD	-	-	0
	CS-137		150	<LLD	<LLD	-	-	0
	BALA140		N/A	<LLD	<LLD	-	-	0
SEDIMENT (PCI/KG DRY)	GAMMA	1						
	MN-54		N/A	<LLD	N/A	-	-	0
	CO-58		N/A	<LLD	N/A	-	-	0
	FE-59		N/A	<LLD	N/A	-	-	0
	CO-60		N/A	<LLD	N/A	-	-	0

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 4TH QUARTER SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY: DRESDEN
LOCATION OF FACILITY: MORRIS, IL
DOCKET NUMBER: 50-010, 50-237 & 50-249
REPORTING PERIOD: 4TH QUARTER 2005

MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR LOCATIONS MEAN (F) RANGE	CONTROL LOCATION MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
	ZN-65		N/A	<LLD	N/A	-	-	0
	ZRNB-95		N/A	<LLD	N/A	-	-	0
	CS-134		150	<LLD	N/A	-	-	0
	CS-137		180	68 (1/1)	N/A	68 (1/1)	D-27 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.5 MILES NW OF SITE	0
	BALA140		N/A	<LLD	N/A	-	-	0
AIR PARTICULATE (E-3 PCI/CU.METER)	GR-B	156	10	23 (143/143) (10/48)	24 (13/13) (12/48)	24 (13/13) (14/46)	D-13 INDICATOR MINOOKA 4.5 MILES N OF SITE	0
	GAMMA MN-54	12	N/A	<LLD	<LLD	-	-	0
	CO-58		N/A	<LLD	<LLD	-	-	0

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 4TH QUARTER SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY: DRESDEN
LOCATION OF FACILITY: MORRIS, IL
DOCKET NUMBER: 50-010, 50-237 & 50-249
REPORTING PERIOD: 4TH QUARTER 2005

MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR LOCATIONS MEAN (F) RANGE	CONTROL LOCATION MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
	FE-59		N/A	<LLD	<LLD	-	-	0
	CO-60		N/A	<LLD	<LLD	-	-	0
	ZN-65		N/A	<LLD	<LLD	-	-	0
	ZRNB-95		N/A	<LLD	<LLD	-	-	0
	CS-134		50	<LLD	<LLD	-	-	0
	CS-137		60	<LLD	<LLD	-	-	0
	BALA140		N/A	<LLD	<LLD	-	-	0
AIR IODINE (E-3 PCI/CU.METER)	I-131	120	70	<LLD	<LLD	-	-	0

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 4TH QUARTER SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY: DRESDEN
LOCATION OF FACILITY: MORRIS, IL
DOCKET NUMBER: 50-010, 50-237 & 50-249
REPORTING PERIOD: 4TH QUARTER 2005

MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR LOCATIONS MEAN (F) RANGE	CONTROL LOCATION MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
MILK (PCI/LITER)	I-131	4	1	N/A	<LLD	-	-	0
	GAMMA	4						
	MN-54		N/A	N/A	<LLD	-	-	0
	CO-58		N/A	N/A	<LLD	-	-	0
	FE-59		N/A	N/A	<LLD	-	-	0
	CO-60		N/A	N/A	<LLD	-	-	0
	ZN-65		N/A	N/A	<LLD	-	-	0
	ZRNB-95		N/A	N/A	<LLD	-	-	0
	CS-134		15	N/A	<LLD	-	-	0

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 4TH QUARTER SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY:	DRESDEN				DOCKET NUMBER:		50-010, 50-237 & 50-249	
LOCATION OF FACILITY:	MORRIS, IL				REPORTING PERIOD:		4TH QUARTER 2005	
				INDICATOR LOCATIONS	CONTROL LOCATION	LOCATION WITH HIGHEST ANNUAL MEAN		
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	MEAN (F) RANGE	MEAN (F) RANGE	MEAN (F) RANGE	STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
	CS-137		18	N/A	<LLD	-	-	0
	BA-140		60	N/A	<LLD	-	-	0
	LA-140		15	N/A	<LLD	-	-	0
DIRECT RADIATION (MILLI-ROENTGEN/QUARTER)	TLD-QUARTERLY	88	N/A	26.2 (86/86) (21/31)	25.0 (2/2) (25/25)	31.0 (1/1)	D-110-4* INDICATOR 0.8 MILES SSW OF SITE	0

* Location D-110-4, D-201-1 and D-201-2 had identical results of 31.0 mR. Only D-110-4 is detailed in this summary.

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM ANNUAL SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY: DRESDEN
LOCATION OF FACILITY: MORRIS, IL
DOCKET NUMBER: 50-010, 50-237 & 50-249
REPORTING PERIOD: ANNUAL 2005

MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR LOCATIONS MEAN (F) RANGE	CONTROL LOCATION MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
SURFACE WATER (PCI/LITER)	GR-B	36	4	7.1 (10/12) (4/9.2)	6.9 (17/24) (4.1/11.3)	7.8 (10/12) (5.1/11.3)	D-52 CONTROL DESPLAINES RIVER - UPSTREAM 0.9 MILES ESE OF SITE	0
	H-3	12	200	370 (2/4) (262/479)	720 (1/8)	720 (1/4)	D-54 CONTROL KANKAKEE RIVER - UPSTREAM 8.5 MILES SE OF SITE	0
	GAMMA	36						
	MN-54		15	<LLD	<LLD	-	-	0
	CO-58		15	<LLD	<LLD	-	-	0
	FE-59		30	<LLD	<LLD	-	-	0
	CO-60		15	<LLD	<LLD	-	-	0
	ZN-65		30	<LLD	<LLD	-	-	0
	NB-95		15	<LLD	<LLD	-	-	0

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM ANNUAL SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY: DRESDEN **DOCKET NUMBER:** 50-010, 50-237 & 50-249
LOCATION OF FACILITY: MORRIS, IL **REPORTING PERIOD:** ANNUAL 2005

MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR LOCATIONS MEAN (F) RANGE	CONTROL LOCATION MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
	ZR-95		30	<LLD	<LLD	-	-	0
	I-131		15	<LLD	<LLD	-	-	0
	CS-134		15	<LLD	<LLD	-	-	0
	CS-137		18	<LLD	<LLD	-	-	0
	BA-140		60	<LLD	<LLD	-	-	0
	LA-140		15	<LLD	<LLD	-	-	0
GROUND WATER (PCI/LITER)	H-3	8	200	692 (4/8) (548/830)	N/A	692 (4/4) (548/830)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0
	GAMMA	8						
	MN-54		15	<LLD	N/A	-	-	0

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM ANNUAL SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY: DRESDEN
LOCATION OF FACILITY: MORRIS, IL
DOCKET NUMBER: 50-010, 50-237 & 50-249
REPORTING PERIOD: ANNUAL 2005

MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR LOCATIONS MEAN (F) RANGE	CONTROL LOCATION MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
	CO-58		15	<LLD	N/A	-	-	0
	FE-59		30	<LLD	N/A	-	-	0
	CO-60		15	<LLD	N/A	-	-	0
	ZN-65		30	<LLD	N/A	-	-	0
	NB-95		15	<LLD	N/A	-	-	0
	ZR-95		30	<LLD	N/A	-	-	0
	I-131		15	<LLD	N/A	-	-	0
	CS-134		15	<LLD	N/A	-	-	0

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM ANNUAL SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY:	DRESDEN				DOCKET NUMBER:		50-010, 50-237 & 50-249	
LOCATION OF FACILITY:	MORRIS, IL				REPORTING PERIOD:		ANNUAL 2005	
				INDICATOR LOCATIONS	CONTROL LOCATION	LOCATION WITH HIGHEST ANNUAL MEAN		
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	MEAN (F) RANGE	MEAN (F) RANGE	MEAN (F) RANGE	STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
	CS-137		18	<LLD	N/A	-	-	0
	BA-140		60	<LLD	N/A	-	-	0
	LA-140		15	<LLD	N/A	-	-	0
FISH (PCI/KG WET)	GAMMA	8						
	MN-54		130	<LLD	<LLD	-	-	0
	CO-58		130	<LLD	<LLD	-	-	0
	FE-59		260	<LLD	<LLD	-	-	0
	CO-60		130	<LLD	<LLD	-	-	0
	ZN-65		260	<LLD	<LLD	-	-	0

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM ANNUAL SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY: DRESDEN **DOCKET NUMBER:** 50-010, 50-237 & 50-249
LOCATION OF FACILITY: MORRIS, IL **REPORTING PERIOD:** ANNUAL 2005

MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR LOCATIONS MEAN (F) RANGE	CONTROL LOCATION MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN MEAN (F) RANGE	STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
	ZRNB-95		N/A	<LLD	<LLD	-	-	0
	CS-134		130	<LLD	<LLD	-	-	0
	CS-137		150	<LLD	<LLD	-	-	0
	BALA140		N/A	<LLD	<LLD	-	-	0
SEDIMENT (PCI/KG DRY)	GAMMA	2						
	MN-54		N/A	<LLD	N/A	-	-	0
	CO-58		N/A	<LLD	N/A	-	-	0
	FE-59		N/A	<LLD	N/A	-	-	0
	CO-60		N/A	<LLD	N/A	-	-	0

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM ANNUAL SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY: DRESDEN
LOCATION OF FACILITY: MORRIS, IL
DOCKET NUMBER: 50-010, 50-237 & 50-249
REPORTING PERIOD: ANNUAL 2005

MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR LOCATIONS MEAN (F) RANGE	CONTROL LOCATION MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
	ZN-65		N/A	<LLD	N/A	-	-	0
	ZRNB-95		N/A	<LLD	N/A	-	-	0
	CS-134		150	<LLD	N/A	-	-	0
	CS-137		180	68 (1/2)	N/A	68 (1/2)	D-27 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.5 MILES NW OF SITE	0
	BALA140		N/A	<LLD	N/A	-	-	0
AIR PARTICULATE (E-3 PCI/CU.METER)	GR-B	482	10	22 (427/430) (7/54)	22 (52/52) (8/48)	23 (50/51) (8/54)	D-07 INDICATOR CLAY PRODUCTS 2.0 MILES S OF SITE	0
	GAMMA	38						
	MN-54		N/A	<LLD	<LLD	-	-	0
	CO-58		N/A	<LLD	<LLD	-	-	0

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM ANNUAL SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY: DRESDEN
LOCATION OF FACILITY: MORRIS, IL
DOCKET NUMBER: 50-010, 50-237 & 50-249
REPORTING PERIOD: ANNUAL 2005

MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR LOCATIONS MEAN (F) RANGE	CONTROL LOCATION MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
	FE-59		N/A	<LLD	<LLD	-	-	0
	CO-60		N/A	<LLD	<LLD	-	-	0
	ZN-65		N/A	<LLD	<LLD	-	-	0
	ZRNB-95		N/A	<LLD	<LLD	-	-	0
	CS-134		50	<LLD	<LLD	-	-	0
	CS-137		60	<LLD	<LLD	-	-	0
	BALA140		N/A	<LLD	<LLD	-	-	0
AIR IODINE (E-3 PCI/CU.METER)	I-131	290	70	<LLD	<LLD	-	-	0

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM ANNUAL SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY: DRESDEN
LOCATION OF FACILITY: MORRIS, IL
DOCKET NUMBER: 50-010, 50-237 & 50-249
REPORTING PERIOD: ANNUAL 2005

MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR LOCATIONS MEAN (F) RANGE	CONTROL LOCATION MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
MILK (PCI/LITER)	I-131	18	1	N/A	<LLD	-	-	0
	GAMMA	18						
	MN-54		N/A	N/A	<LLD	-	-	0
	CO-58		N/A	N/A	<LLD	-	-	0
	FE-59		N/A	N/A	<LLD	-	-	0
	CO-60		N/A	N/A	<LLD	-	-	0
	ZN-65		N/A	N/A	<LLD	-	-	0
	ZRNB-95		N/A	N/A	<LLD	-	-	0
	CS-134		15	N/A	<LLD	-	-	0

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM ANNUAL SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY: DRESDEN
LOCATION OF FACILITY: MORRIS, IL
DOCKET NUMBER: 50-010, 50-237 & 50-249
REPORTING PERIOD: ANNUAL 2005

MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR LOCATIONS MEAN (F) RANGE	CONTROL LOCATION MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
	CS-137		18	N/A	<LLD	-	-	0
	BA-140		60	N/A	<LLD	-	-	0
	LA-140		15	N/A	<LLD	-	-	0
FOOD PRODUCT (PCI/KG WET)	GAMMA	10						
	MN-54		N/A	<LLD	<LLD	-	-	0
	CO-58		N/A	<LLD	<LLD	-	-	0
	FE-59		N/A	<LLD	<LLD	-	-	0
	CO-60		N/A	<LLD	<LLD	-	-	0
	ZN-65		N/A	<LLD	<LLD	-	-	0

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

TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM ANNUAL SUMMARY FOR DRESDEN NUCLEAR POWER STATION, 2005

NAME OF FACILITY: DRESDEN **DOCKET NUMBER:** 50-010, 50-237 & 50-249
LOCATION OF FACILITY: MORRIS, IL **REPORTING PERIOD:** ANNUAL 2005

MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR LOCATIONS MEAN (F) RANGE	CONTROL LOCATION MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN: STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTIME REPORTED MEASUREMENTS
	ZRNB-95		N/A	<LLD	<LLD	-	-	0
	I-131		60	<LLD	<LLD	-	-	0
	CS-134		60	<LLD	<LLD	-	-	0
	CS-137		80	<LLD	<LLD	-	-	0
	BALA140		N/A	<LLD	<LLD	-	-	0
DIRECT RADIATION (MILLI-ROENTGEN/QUARTER)	TLD-QUARTERLY	351	N/A	23.5 (343/343) (17/31)	21.6 (8/8) (19/25)	28.3 (4/4) (26/30)	D-110-3 INDICATOR 0.8 MILES SSW OF SITE	0

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

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APPENDIX B

LOCATION DESIGNATION, DISTANCE & DIRECTION, AND SAMPLE COLLECTION & ANALYTICAL METHODS

TABLE B-1: Radiological Environmental Monitoring Program - Sampling Locations, Distance and Direction, Dresden Nuclear Power Station, 2005

Location	Location Description	Distance & Direction From Site
A. Surface Water		
D-51	Dresden Lock and Dam, Downstream (indicator)	0.5 miles NW
D-52	DesPlaines River, Upstream (control)	0.9 miles ESE
D-54	Kankakee River, Upstream (control)	8.5 miles SE
B. Ground/Well Water		
D-23	Thorsen Well (indicator)	0.7 miles S
D-35	Dresden Lock and Dam (indicator)	0.5 miles NW
C. Milk - bi-weekly / monthly		
D-25	Biros Farm (control)	11.5 miles SW
D. Air Particulates / Air Iodine		
D-01	Onsite 1 (indicator)	0.6 miles NW
D-02	Onsite 2 (indicator)	0.3 miles NE
D-03	Onsite 3 (indicator)	0.4 miles S
D-04	Collins Road (indicator)	0.9 miles W
D-07	Clay Products (indicator)	2.0 miles S
D-08	Prairie Park (indicator)	4.0 miles SW
D-10	Goose Lake Village (indicator)	3.8 miles SSW
D-12	Lisbon (control)	10.0 miles NW
D-13	Minooka (indicator)	4.5 miles N
D-14	Channahon (indicator)	3.5 miles NE
D-45	McKinley Woods Road (indicator)	1.5 miles ENE
D-53	Grundy County Road (indicator)	2.1 miles SSE
E. Fish		
D-28	Dresden Pool of Illinois River, Downstream (indicator)	0.5 miles NW
D-46	DesPlaines River, Upstream (control)	0.9 miles E
F. Sediment		
D-27	Dresden Lock and Dam, Downstream (indicator)	0.5 miles NW
G. Vegetation		
Quadrant 1	Chris Locknar	2.8 miles NE
Quadrant 2	Robert Pagliano	3.2 miles SSE
Quadrant 3	Jim Bloom	3.9 miles SSW
Quadrant 4	J.D. Carmichael	1.6 miles NNW
Control	Glasscock Farm	12.8 miles ENE
H. Environmental Dosimetry - TLD		
Inner Ring		
D-101-1 and -2		1.0 miles N
D-102-1 and -2		1.3 miles NNE
D-103-1 and -2		1.2 miles NE
D-104-1 and -2		1.5 miles ENE
D-105-1 and -2		1.4 miles E
D-106-1 and -2		0.9 miles ESE
D-107-1 and -2		1.3 miles SE
D-108-1 and -2		1.9 miles SSE
D-109-1 and -2		0.8 miles S

TABLE B-1: Radiological Environmental Monitoring Program - Sampling Locations, Distance and Direction, Dresden Nuclear Power Station, 2005

Location	Location Description	Distance & Direction From Site
D-110-3 and -4		0.8 miles SSW
D-111-1 and -2		0.6 miles SW
D-112a-1 and -2		0.8 miles WSW
D-113-1 and -2		0.9 miles W
D-114-1 and -2		1.0 miles WNW
D-115-1 and -2		0.8 miles NW
D-116-1 and -2		1.0 miles NNW
Outer Ring		
D-201-1 and -2		4.5 miles N
D-202-1 and -2		5.0 miles NNE
D-203-1 and -2		4.5 miles NE
D-204-1 and -2		5.0 miles ENE
D-205-1 and -2		4.2 miles E
D-206 -1 and -2		3.5 miles ESE
D-207-1 and -2		4.5 miles SE
D-208-1 and -2		5.0 miles SSE
D-209-1 and -2		5.0 miles S
D-210-1 and -2		4.8 miles SSW
D-211-1 and -2		5.0 miles SW
D-212-3 and -4		6.0 miles WSW
D-213-1 and -2		4.5 miles W
D-214-1 and -2		4.5 miles WNW
D-215-1 and -2		5.1 miles NW
D-216-1 and -2		4.8 miles NNW
Other		
D-01-1 and -2	Onsite 1	0.6 miles NW
D-02-1 and -2	Onsite 2	0.3 miles NE
D-03-1 and -2	Onsite 3	0.4 miles S
D-04-1 and -2	Collins Road	0.9 miles W
D-07-1 and -2	Clay Products	2.0 miles S
D-08-1 and -2	Prairie Park	4.0 miles SW
D-10-1 and -2	Goose Lake Village	3.8 miles SSW
D-13-1 and -2	Minooka	4.5 miles N
D-14-1 and -2	Channahon	3.5 miles NE
D-45-1 and -2	McKinley Woods Road	1.5 miles ENE
D-53-1 and -2	Grundy County Road	2.1 miles SSE
Control		
D-12-1 and -2	Lisbon	10.0 miles NW

TABLE B-2: Radiological Environmental Monitoring Program – Summary of Sample Collection and Analytical Methods, Dresden Nuclear Power Station, 2005

Sample Medium	Analysis	Sampling Method	Collection Procedure Number	Sample Size	Analytical Procedure Number
Surface Water	Gamma Spectroscopy	Monthly composite from weekly grab samples.	EIML-SPM-1, Environmental Incorporated Midwest Laboratory Sampling Procedures Manual TBE, TBE-2023 Compositing of samples EIML-COMP-01 procedure for compositing water and milk samples	2 gallon	TBE, TBE-2007 Gamma emitting radioisotope analysis Env. Inc., GS-01 Determination of gamma emitters by gamma spectroscopy
Surface Water	Gross Beta	Monthly composite from weekly grab samples.	EIML-SPM-1, Environmental Incorporated Midwest Laboratory Sampling Procedures Manual TBE, TBE-2023 Compositing of samples EIML-COMP-01 procedure for compositing water and milk samples	2 gallon	TBE, TBE-2008 Gross Alpha and/or gross beta activity in various matrices Env. Inc., W(DS)-01 Determination of gross alpha and/or gross beta in water (dissolved solids or total residue)
Surface Water	Tritium	Quarterly composite from weekly grab samples.	EIML-SPM-1, Environmental Incorporated Midwest Laboratory Sampling Procedures Manual TBE, TBE-2023 Compositing of samples EIML-COMP-01 procedure for compositing water and milk samples	500 ml	TBE, TBE-2011 Tritium analysis in drinking water by liquid scintillation Env. Inc., T-02 Determination of tritium in water (direct method)
Ground Water	Gamma Spectroscopy	Quarterly grab samples.	EIML-SPM-1, Environmental Incorporated Midwest Laboratory Sampling Procedures Manual	2 gallon	TBE, TBE-2007 Gamma emitting radioisotope analysis Env. Inc., GS-01 Determination of gamma emitters by gamma spectroscopy
Ground Water	Tritium	Quarterly grab samples.	EIML-SPM-1, Environmental Incorporated Midwest Laboratory Sampling Procedures Manual	500 ml	TBE, TBE-2011 Tritium analysis in drinking water by liquid scintillation Env. Inc., T-02 Determination of tritium in water (direct method)
Fish	Gamma Spectroscopy	Samples collected twice annually via electroshocking or other techniques	EIML-SPM-1, Environmental Incorporated Midwest Laboratory Sampling Procedures Manual	1000 grams (wet)	TBE-2007 Gamma emitting radioisotope analysis Env. Inc., GS-01 Determination of gamma emitters by gamma spectroscopy
Sediment	Gamma Spectroscopy	Semi-annual grab samples	EIML-SPM-1, Environmental Incorporated Midwest Laboratory Sampling Procedures Manual	500 grams (dry)	TBE, TBE-2007 Gamma emitting radioisotope analysis Env. Inc., GS-01 Determination of gamma emitters by gamma spectroscopy

TABLE B-2: Radiological Environmental Monitoring Program – Summary of Sample Collection and Analytical Methods, Dresden Nuclear Power Station, 2005

Sample Medium	Analysis	Sampling Method	Collection Procedure Number	Sample Size	Analytical Procedure Number
Dredging Spoils	Gamma Spectroscopy	Annual grab samples if dredging occurred within 1 mile of Dresden Station during the year.	EIML-SPM-1, Environmental Incorporated Midwest Laboratory Sampling Procedures Manual	500 grams (dry)	TBE, TBE-2007 Gamma emitting radioisotope analysis
Air Particulates	Gross Beta	One-week of continuous air sampling through glass fiber filter paper	EIML-SPM-1, Environmental Incorporated Midwest Laboratory Sampling Procedures Manual	1 filter (approximately 280 cubic meters weekly)	TBE, TBE-2008 Gross Alpha and/or gross beta activity in various matrices Env. Inc., AP-02 Determination of gross alpha and/or gross beta in air particulate filters
Air Particulates	Gamma Spectroscopy	Quarterly composite of each station	TBE, TBE-2023 Compositing of samples Env. Inc., AP-03 Procedure for compositing air particulate filters for gamma spectroscopic analysis	13 filters	TBE, TBE-2007 Gamma emitting radioisotope analysis Env. Inc., GS-01 Determination of gamma emitters by gamma spectroscopy
Air Iodine	Gamma Spectroscopy	One- or two-week composite of continuous air sampling through charcoal filter	EIML-SPM-1, Environmental Incorporated Midwest Laboratory Sampling Procedures Manual	1 filter (approximately 280 cubic meters weekly)	TBE, TBE-2007 Gamma emitting radioisotope analysis Env. Inc., I-131-02 Determination of I-131 in charcoal canisters by gamma spectroscopy (batch method)
Milk	I-131	Bi-weekly grab sample May through October. Monthly all other times	EIML-SPM-1, Environmental Incorporated Midwest Laboratory Sampling Procedures Manual	2 gallon	TBE, TBE-2012 Radioiodine in various matrices Env. Inc., I-131-01 Determination of I-131 in milk by anion exchange
Milk	Gamma Spectroscopy	Bi-weekly grab sample May through October. Monthly all other times	EIML-SPM-1, Environmental Incorporated Midwest Laboratory Sampling Procedures Manual	2 gallon	TBE, TBE-2007 Gamma emitting radioisotope analysis Env. Inc., GS-01 Determination of gamma emitters by gamma spectroscopy
Food Products	Gamma Spectroscopy	Annual grab samples.	EIML-SPM-1, Environmental Incorporated Midwest Laboratory Sampling Procedures Manual	1000 grams	TBE, TBE-2007 Gamma emitting radioisotope analysis
TLD	Thermoluminescence Dosimetry	Quarterly TLDs comprised of two Global Dosimetry TLDs, with two CaF_2 elements and two LiF elements in each TLD.	EIML-SPM-1, Environmental Incorporated Midwest Laboratory Sampling Procedures Manual	2 dosimeters	Global Dosimetry

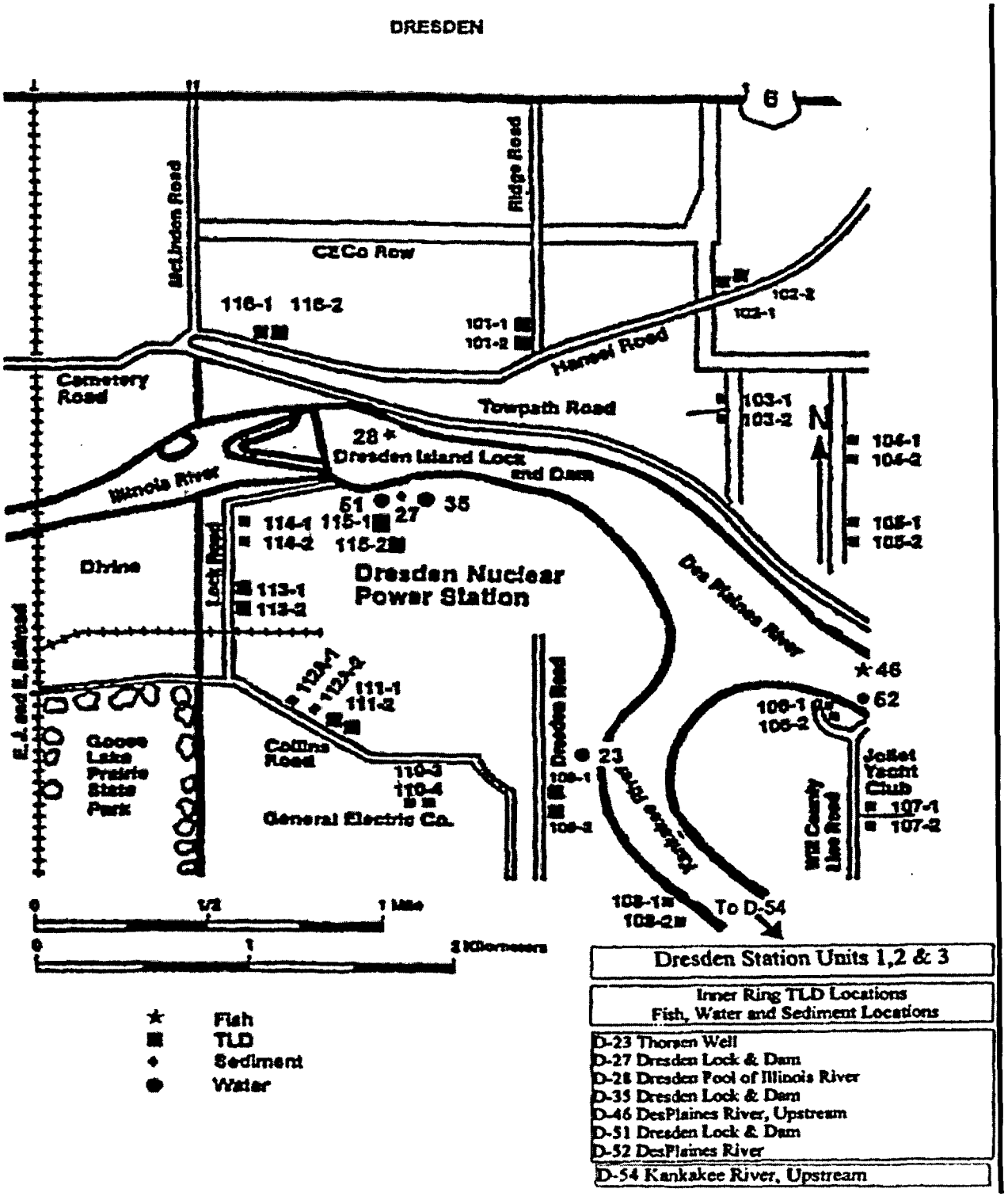


Figure B-1
Dresden Station Inner Ring TLD Locations, Fish, Water, and Sediment Locations, 2005

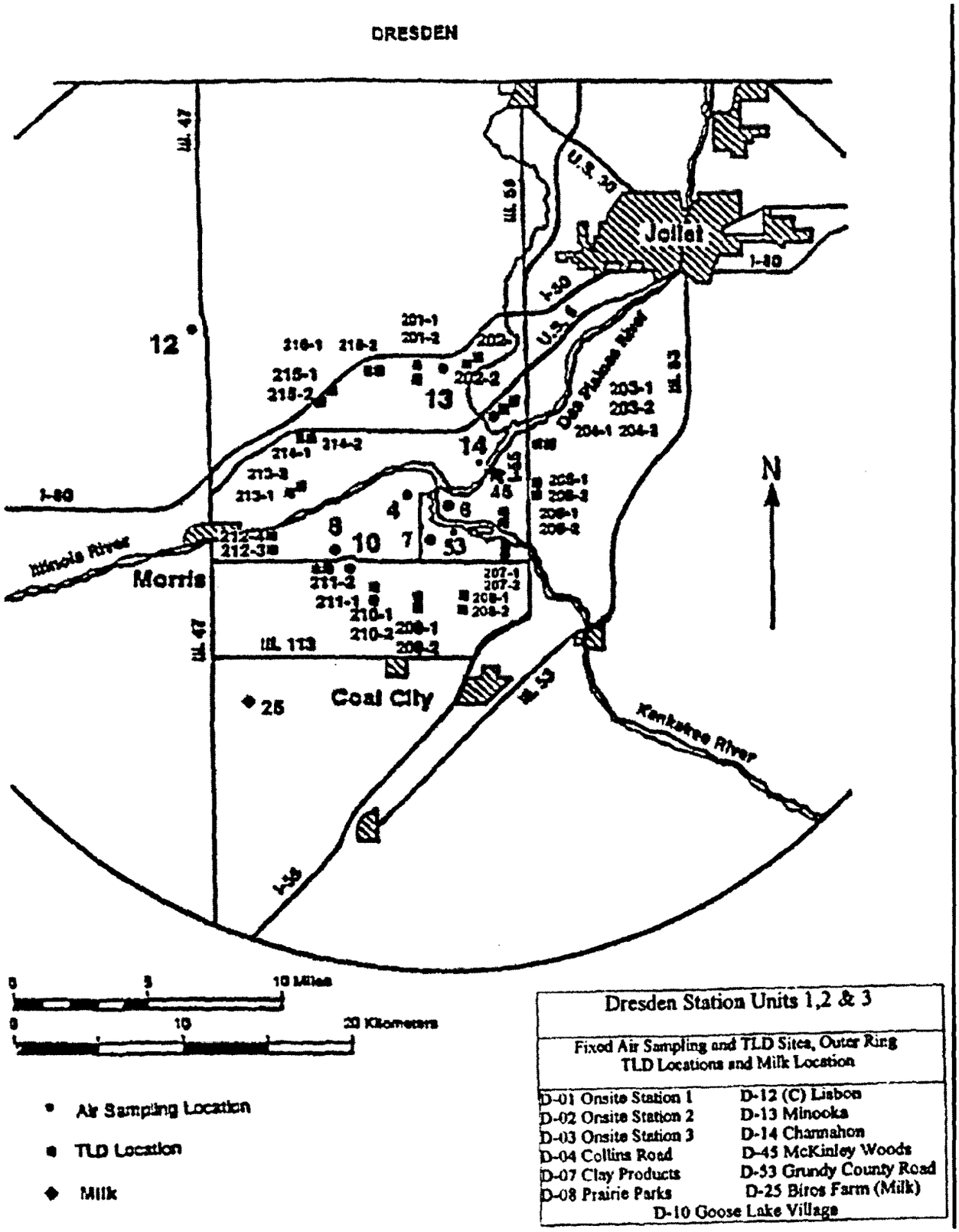


Figure B-2
Dresden Station Fixed Air Sampling and TLD Sites, Outer Ring TLD Locations and Milk Location, 2005

APPENDIX C

DATA TABLES AND FIGURES
PRIMARY LABORATORY

TABLE C-I.1 CONCENTRATIONS OF GROSS BETA IN SURFACE WATER SAMPLES COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2005

RESULTS IN UNITS OF PCI/LITER ± 2 SIGMA

COLLECTION PERIOD	D-51	D-52	D-54
JAN	4.0 ± 1.2	6.4 ± 1.3	< 4.0
FEB	5.5 ± 1.4	6.1 ± 1.1	< 4.0
MAR	4.0 ± 0.8	< 4.0	< 4.0
APR	< 4.0	< 4.0	< 4.0
MAY	< 4.0	5.1 ± 0.8	< 4.0
JUN	6.3 ± 1.3	8.7 ± 1.5	4.1 ± 1.3
JUL	9.2 ± 2.2	11 ± 2.4	4.6 ± 1.9
AUG	9.2 ± 2.3	9.2 ± 2.3	6.5 ± 2.1
SEP	8.4 ± 2.1	9.1 ± 2.0	6.6 ± 2.0
OCT	5.9 ± 1.9	5.8 ± 1.9	6.1 ± 1.9
NOV	8.9 ± 2.3	5.9 ± 2.0	7.8 ± 2.2
DEC	9.1 ± 2.5	10 ± 2.8	4.9 ± 2.1

TABLE C-I.2 CONCENTRATIONS OF TRITIUM IN SURFACE WATER SAMPLES COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2005

RESULTS IN UNITS OF PCI/LITER ± 2 SIGMA

COLLECTION PERIOD	D-51	D-52	D-54
JAN-MAR	< 200	< 200	< 200
APR-JUN	262 ± 104	< 200	< 200
JUL-SEP	< 190	< 188	720 ± 133
OCT-DEC	479 ± 116	< 169	< 169

DUE TO VENDOR CHANGE, < VALUES ARE LLD VALUES JANUARY THROUGH JUNE AND MDC VALUES JULY THROUGH DECEMBER

TABLE C-I.3 CONCENTRATIONS OF GAMMA EMITTERS IN SURFACE WATER SAMPLES COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2005

RESULTS IN UNITS OF PCI/LITER ± 2 SIGMA

STC	COLLECTION PERIOD	MN-54	CO-58	FE-59	CO-60	ZN-65	NB-95	ZR-95	I-131	CS-134	CS-137	BA-140	LA-140
D-51	JAN	< 15	< 15	< 30	< 15	< 30	< 15	< 30	< 15	< 15	< 18	< 60	< 15
	FEB	< 15	< 15	< 30	< 15	< 30	< 15	< 30	< 15	< 15	< 18	< 60	< 15
	MAR	< 15	< 15	< 30	< 15	< 30	< 15	< 30	< 15	< 15	< 18	< 60	< 15
	APR	< 15	< 15	< 30	< 15	< 30	< 15	< 30	< 15	< 15	< 18	< 60	< 15
	MAY	< 15	< 15	< 30	< 15	< 30	< 15	< 30	< 15	< 15	< 18	< 60	< 15
	JUN	< 15	< 15	< 30	< 15	< 30	< 15	< 30	< 15	< 15	< 18	< 60	< 15
	JUL	< 2	< 2	< 5	< 2	< 4	< 2	< 4	< 3	< 2	< 2	< 34	< 11
	AUG	< 2	< 2	< 4	< 2	< 4	< 2	< 3	< 8	< 2	< 2	< 16	< 5
	SEP	< 6	< 7	< 12	< 6	< 12	< 6	< 9	< 15	< 4	< 6	< 34	< 11
	OCT	< 2	< 3	< 6	< 3	< 6	< 2	< 5	< 12	< 2	< 3	< 20	< 8
	NOV	< 4	< 5	< 10	< 3	< 6	< 4	< 7	< 11	< 3	< 4	< 26	< 7
	DEC	< 2	< 3	< 5	< 3	< 5	< 3	< 4	< 7	< 2	< 2	< 17	< 5
D-52	JAN	< 15	< 15	< 30	< 15	< 30	< 15	< 30	< 15	< 15	< 18	< 60	< 15
	FEB	< 15	< 15	< 30	< 15	< 30	< 15	< 30	< 15	< 15	< 18	< 60	< 15
	MAR	< 15	< 15	< 30	< 15	< 30	< 15	< 30	< 15	< 15	< 18	< 60	< 15
	APR	< 15	< 15	< 30	< 15	< 30	< 15	< 30	< 15	< 15	< 18	< 60	< 15
	MAY	< 15	< 15	< 30	< 15	< 30	< 15	< 30	< 15	< 15	< 18	< 60	< 15
	JUN	< 15	< 15	< 30	< 15	< 30	< 15	< 30	< 15	< 15	< 18	< 60	< 15
	JUL	< 3	< 3	< 6	< 3	< 6	< 3	< 6	< 4	< 2	< 2	< 46	< 14
	AUG	< 2	< 2	< 5	< 2	< 4	< 3	< 4	< 10	< 2	< 2	< 19	< 7
	SEP	< 5	< 5	< 10	< 5	< 10	< 5	< 9	< 14	< 4	< 5	< 28	< 11
	OCT	< 4	< 5	< 8	< 5	< 9	< 5	< 8	< 15	< 4	< 3	< 27	< 9
	NOV	< 6	< 5	< 9	< 6	< 9	< 7	< 12	< 13	< 6	< 5	< 32	< 12
	DEC	< 5	< 5	< 11	< 5	< 13	< 5	< 9	< 14	< 6	< 5	< 33	< 11

DUE TO VENDOR CHANGE, < VALUES ARE LLD VALUES JANUARY THROUGH JUNE AND MDC VALUES JULY THROUGH DECEMBER

TABLE C-I.3 CONCENTRATIONS OF GAMMA EMITTERS IN SURFACE WATER SAMPLES COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2005

RESULTS IN UNITS OF PCI/LITER ± 2 SIGMA

STC	COLLECTION PERIOD	MN-54	CO-58	FE-59	CO-60	ZN-65	NB-95	ZR-95	I-131	CS-134	CS-137	BA-140	LA-140
D-54	JAN	< 15	< 15	< 30	< 15	< 30	< 15	< 30	< 15	< 15	< 18	< 60	< 15
	FEB	< 15	< 15	< 30	< 15	< 30	< 15	< 30	< 15	< 15	< 18	< 60	< 15
	MAR	< 15	< 15	< 30	< 15	< 30	< 15	< 30	< 15	< 15	< 18	< 60	< 15
	APR	< 15	< 15	< 30	< 15	< 30	< 15	< 30	< 15	< 15	< 18	< 60	< 15
	MAY	< 15	< 15	< 30	< 15	< 30	< 15	< 30	< 15	< 15	< 18	< 60	< 15
	JUN	< 15	< 15	< 30	< 15	< 30	< 15	< 30	< 15	< 15	< 18	< 60	< 15
	JUL	< 1	< 2	< 4	< 1	< 3	< 2	< 3	< 12	< 1	< 1	< 18	< 6
	AUG	< 4	< 5	< 7	< 5	< 8	< 4	< 8	< 13	< 4	< 5	< 34	< 10
	SEP	< 3	< 4	< 7	< 3	< 9	< 5	< 9	< 11	< 3	< 4	< 24	< 10
	OCT	< 5	< 5	< 11	< 3	< 7	< 4	< 7	< 13	< 4	< 5	< 31	< 8
	NOV	< 3	< 4	< 7	< 5	< 6	< 3	< 8	< 8	< 3	< 4	< 21	< 7
	DEC	< 1	< 1	< 3	< 2	< 3	< 1	< 3	< 4	< 1	< 1	< 10	< 3

DUE TO VENDOR CHANGE, < VALUES ARE LLD VALUES JANUARY THROUGH JUNE AND MDC VALUES JULY THROUGH DECEMBER

TABLE C-II.1 CONCENTRATIONS OF TRITIUM IN GROUND WATER SAMPLES COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2005

RESULTS IN UNITS OF PCI/LITER ± 2 SIGMA

COLLECTION PERIOD	D-23	D-35
JAN-MAR	737 ± 103	< 200
APR-JUN	653 ± 102	< 200
JUL-SEP	830 ± 130	< 176
OCT-DEC	548 ± 116	< 158

DUE TO VENDOR CHANGE, < VALUES ARE LLD VALUES JANUARY THROUGH JUNE AND MDC VALUES JULY THROUGH DECEMBER

TABLE C-II.2 CONCENTRATIONS OF GAMMA EMITTERS IN GROUND WATER SAMPLES COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2005

RESULTS IN UNITS OF PCI/LITER ± 2 SIGMA

STC	COLLECTION PERIOD	MN-54	CO-58	FE-59	CO-60	ZN-65	NB-95	ZR-95	I-131	CS-134	CS-137	BA-140	LA-140
D-23	JAN	< 15	< 15	< 30	< 15	< 30	< 15	< 30	< 15	< 15	< 18	< 60	< 15
	APR	< 15	< 15	< 30	< 15	< 30	< 15	< 30	< 15	< 15	< 18	< 60	< 15
	JUL	< 6	< 5	< 10	< 5	< 14	< 5	< 10	< 9	< 5	< 5	< 32	< 11
	OCT	< 4	< 4	< 7	< 3	< 6	< 4	< 7	< 10	< 3	< 4	< 24	< 8
D-35	JAN	< 15	< 15	< 30	< 15	< 30	< 15	< 30	< 15	< 15	< 18	< 60	< 15
	APR	< 15	< 15	< 30	< 15	< 30	< 15	< 30	< 15	< 15	< 18	< 60	< 15
	JUL	< 4	< 5	< 14	< 6	< 9	< 5	< 5	< 8	< 4	< 5	< 21	< 8
	OCT	< 5	< 5	< 12	< 5	< 10	< 5	< 8	< 13	< 4	< 6	< 29	< 6

DUE TO VENDOR CHANGE, < VALUES ARE LLD VALUES JANUARY THROUGH JUNE AND MDC VALUES JULY THROUGH DECEMBER

TABLE C-III.1 **CONCENTRATIONS OF GAMMA EMITTERS IN FISH SAMPLES COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2005**

RESULTS IN UNITS OF PCI/KG WET ± 2 SIGMA

STC	COLLECTION PERIOD	MN-54	CO-58	FE-59	CO-60	ZN-65	ZRNB-95	CS-134	CS-137	BALA-140
D-28										
Largemouth Bass	05/12/05	< 130	< 130	< 260	< 130	< 260	< 200	< 130	< 150	< 300
Largemouth Bass	10/28/05	< 67	< 66	< 132	< 51	< 166	< 70	< 55	< 66	< 108
D-28										
Channel Catfish	05/12/05	< 130	< 130	< 260	< 130	< 260	< 200	< 130	< 150	< 300
Carp	10/28/05	< 59	< 66	< 153	< 62	< 116	< 96	< 63	< 65	< 145
D-46										
Largemouth Bass	05/12/05	< 130	< 130	< 260	< 130	< 260	< 200	< 130	< 150	< 300
Largemouth Bass	10/28/05	< 36	< 37	< 87	< 49	< 65	< 36	< 31	< 28	< 62
D-46										
Channel Catfish	05/12/05	< 130	< 130	< 260	< 130	< 260	< 200	< 130	< 150	< 300
Carp	10/28/05	< 40	< 45	< 88	< 40	< 84	< 52	< 39	< 40	< 62

DUE TO VENDOR CHANGE, < VALUES ARE LLD VALUES JANUARY THROUGH JUNE AND MDC VALUES JULY THROUGH DECEMBER

TABLE CIV.1 CONCENTRATIONS OF GAMMA EMITTERS IN SEDIMENT SAMPLES COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2005

RESULTS IN UNITS OF PCI/KG DRY ± 2 SIGMA

STC	COLLECTION PERIOD	MN-54	CO-58	FE-59	CO-60	ZN-65	ZRNB-95	CS-134	CS-137	BALA-140
D-27	05/20/05	< 150	< 100	< 600	< 100	< 600	< 200	< 150	< 180	< 600
	10/07/05	< 49	< 45	< 114	< 49	< 112	< 55	< 39	68 ± 42	< 87

DUE TO VENDOR CHANGE, < VALUES ARE LLD VALUES JANUARY THROUGH JUNE AND MDC VALUES JULY THROUGH DECEMBER

TABLE C-V.1 CONCENTRATIONS OF GROSS BETA IN AIR PARTICULATE SAMPLES COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2005

RESULTS IN UNITS OF E-3 PCI/CU METER ± SIGMA

	GROUP I			GROUP II			
WEEK	D-01	D-02	D-03	D-04	D-07	D-45	D-53
1	28 ± 4	(1)	33 ± 4	35 ± 4	32 ± 4	32 ± 4	36 ± 4
2	29 ± 4		29 ± 4	38 ± 6	28 ± 4	29 ± 4	22 ± 3
3	41 ± 4		38 ± 4	48 ± 5	36 ± 4	40 ± 4	35 ± 4
4	23 ± 4		21 ± 4	32 ± 4	21 ± 4	22 ± 4	22 ± 4
5	33 ± 4		26 ± 4	29 ± 4	31 ± 4	25 ± 4	29 ± 4
6	23 ± 4		20 ± 4	22 ± 4	24 ± 4	28 ± 4	25 ± 4
7	22 ± 3		24 ± 3	26 ± 3	25 ± 3	27 ± 4	26 ± 4
8	34 ± 4		29 ± 4	33 ± 4	32 ± 4	31 ± 4	33 ± 4
9	24 ± 4		22 ± 4	23 ± 4	20 ± 4	23 ± 4	22 ± 4
10	22 ± 4		24 ± 4	25 ± 4	25 ± 4	21 ± 4	23 ± 4
11	18 ± 3		18 ± 3	16 ± 3	18 ± 3	19 ± 3	20 ± 3
12	16 ± 3		13 ± 3	15 ± 3	14 ± 3	17 ± 3	14 ± 3
13	19 ± 3		20 ± 3	20 ± 3	22 ± 3	21 ± 3	21 ± 3
14	13 ± 3		19 ± 4	17 ± 3	20 ± 4	20 ± 4	20 ± 4
15	16 ± 4		15 ± 3	15 ± 3	23 ± 4	18 ± 4	18 ± 4
16	24 ± 3		23 ± 3	23 ± 3	25 ± 3	26 ± 3	21 ± 3
17	16 ± 3		15 ± 3	20 ± 3	17 ± 3	16 ± 3	16 ± 3
18	20 ± 3		20 ± 3	22 ± 4	23 ± 4	24 ± 4	22 ± 4
19	18 ± 4		20 ± 4	20 ± 4	25 ± 4	25 ± 4	19 ± 4
20	12 ± 3		10 ± 3	15 ± 3	14 ± 3	13 ± 3	15 ± 3
21	11 ± 3		13 ± 3	16 ± 3	15 ± 3	14 ± 3	19 ± 3
22	15 ± 4		17 ± 4	14 ± 3	20 ± 4	15 ± 3	18 ± 4
23	22 ± 3		21 ± 3	19 ± 3	< 4	21 ± 3	22 ± 3
24	12 ± 3		12 ± 3	12 ± 3	(1)	11 ± 3	16 ± 3
25	21 ± 3		23 ± 3	20 ± 3	23 ± 3	21 ± 3	24 ± 3
26	37 ± 4		37 ± 4	35 ± 4	54 ± 5	44 ± 5	40 ± 4
27	< 6		8 ± 4	8 ± 4	15 ± 5	12 ± 5	13 ± 5
28	19 ± 5		21 ± 5	21 ± 5	22 ± 5	28 ± 6	18 ± 5
29	15 ± 5		15 ± 5	17 ± 5	12 ± 5	18 ± 5	17 ± 5
30	8 ± 5		7 ± 4	11 ± 5	14 ± 5	< 7	11 ± 5
31	22 ± 5		18 ± 5	20 ± 5	23 ± 5	23 ± 5	28 ± 6
32	16 ± 5		19 ± 5	20 ± 5	24 ± 5	24 ± 5	23 ± 5
33	16 ± 5		18 ± 5	13 ± 5	20 ± 5	16 ± 5	15 ± 5
34	10 ± 5		11 ± 5	9 ± 5	8 ± 5	12 ± 5	15 ± 5
35	26 ± 5		22 ± 5	21 ± 5	28 ± 5	27 ± 5	25 ± 5
36	20 ± 5		19 ± 5	21 ± 5	18 ± 5	15 ± 5	16 ± 5
37	38 ± 6		35 ± 5	35 ± 5	39 ± 6	34 ± 5	37 ± 5
38	20 ± 5	25 ± 6	19 ± 5	19 ± 5	24 ± 5	18 ± 5	22 ± 5
39	16 ± 4	16 ± 4	18 ± 4	16 ± 4	17 ± 4	20 ± 4	22 ± 4
40	17 ± 4	22 ± 5	24 ± 5	16 ± 4	21 ± 5	24 ± 5	18 ± 4
41	16 ± 4	14 ± 4	13 ± 4	13 ± 4	16 ± 4	13 ± 4	23 ± 5
42	15 ± 5	12 ± 4	15 ± 5	12 ± 4	13 ± 4	17 ± 5	16 ± 5
43	14 ± 4	11 ± 3	12 ± 3	10 ± 3	12 ± 3	14 ± 4	13 ± 4
44	24 ± 5	28 ± 5	27 ± 5	25 ± 5	29 ± 5	27 ± 5	27 ± 5
45	31 ± 5	31 ± 5	32 ± 5	23 ± 5	33 ± 5	36 ± 6	30 ± 5
46	14 ± 3	13 ± 3	16 ± 3	14 ± 3	14 ± 3	16 ± 3	15 ± 3
47	18 ± 5	18 ± 5	16 ± 4	18 ± 5	21 ± 5	21 ± 5	16 ± 4
48	20 ± 4	15 ± 4	18 ± 4	18 ± 4	17 ± 4	16 ± 4	19 ± 4
49	29 ± 5	23 ± 5	31 ± 5	27 ± 5	33 ± 5	30 ± 5	29 ± 5
50	24 ± 5	25 ± 5	26 ± 5	25 ± 5	32 ± 5	29 ± 5	26 ± 5
51	46 ± 6	40 ± 6	46 ± 6	43 ± 6	47 ± 6	40 ± 6	39 ± 6
52	21 ± 5	24 ± 5	19 ± 4	19 ± 4	25 ± 5	22 ± 5	23 ± 5
MEAN	21 ± 16	21 ± 16	21 ± 16	21 ± 17	23 ± 18	22 ± 16	22 ± 14

(1) SEE PROGRAM EXCEPTIONS SECTION FOR EXPLANATION

* THE MEAN AND 2 STANDARD DEVIATION VALUES ARE CALCULATED USING BOTH THE MDA AND POSITIVE VALUES

TABLE C-V.1 CONCENTRATIONS OF GROSS BETA IN AIR PARTICULATE SAMPLES COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2005

RESULTS IN UNITS OF E-3 PCI/CU METER + SIGMA

	GROUP III				GROUP IV
WEEK	D-08	D-10	D-13	D-14	D-12
1	(1)	(1)	(1)	(1)	33 ± 4
2					28 ± 4
3					38 ± 4
4					23 ± 4
5					30 ± 4
6					27 ± 4
7					27 ± 4
8					31 ± 4
9					21 ± 4
10					22 ± 4
11					21 ± 3
12					14 ± 3
13					19 ± 3
14					13 ± 3
15					20 ± 4
16					26 ± 3
17					16 ± 3
18					19 ± 3
19					21 ± 4
20					15 ± 3
21					17 ± 3
22					18 ± 4
23					17 ± 3
24					13 ± 3
25					21 ± 3
26					41 ± 4
27	9 ± 4	7 ± 4	11 ± 5	11 ± 4	8 ± 4
28	18 ± 5	20 ± 5	22 ± 5	26 ± 5	22 ± 5
29	16 ± 5	15 ± 5	15 ± 5	17 ± 5	14 ± 5
30	12 ± 5	9 ± 5	13 ± 5	12 ± 5	12 ± 5
31	24 ± 5	26 ± 6	24 ± 5	26 ± 6	19 ± 5
32	27 ± 5	25 ± 5	25 ± 5	20 ± 5	18 ± 5
33	20 ± 5	17 ± 5	16 ± 5	18 ± 5	20 ± 5
34	10 ± 5	9 ± 5	13 ± 5	8 ± 5	9 ± 5
35	27 ± 5	22 ± 5	30 ± 5	24 ± 5	24 ± 5
36	15 ± 5	17 ± 5	19 ± 5	22 ± 5	23 ± 5
37	39 ± 6	43 ± 6	39 ± 6	42 ± 6	39 ± 6
38	23 ± 5	19 ± 5	20 ± 5	20 ± 5	21 ± 5
39	18 ± 4	19 ± 4	18 ± 4	24 ± 4	18 ± 4
40	23 ± 5	25 ± 5	21 ± 5	23 ± 5	23 ± 5
41	17 ± 4	20 ± 4	18 ± 4	20 ± 4	18 ± 4
42	18 ± 5	16 ± 5	24 ± 5	16 ± 5	21 ± 5
43	15 ± 4	12 ± 3	14 ± 4	12 ± 3	12 ± 3
44	28 ± 5	25 ± 5	26 ± 5	26 ± 5	26 ± 5
45	32 ± 5	29 ± 5	35 ± 5	33 ± 5	34 ± 5
46	17 ± 3	14 ± 3	17 ± 3	15 ± 3	15 ± 3
47	17 ± 5	23 ± 5	17 ± 5	15 ± 4	18 ± 5
48	14 ± 4	17 ± 4	17 ± 4	17 ± 4	15 ± 4
49	30 ± 5	29 ± 5	35 ± 5	33 ± 5	30 ± 5
50	28 ± 5	28 ± 5	24 ± 4	23 ± 4	22 ± 4
51	41 ± 6	46 ± 6	46 ± 6	48 ± 6	48 ± 6
52	24 ± 5	19 ± 4	22 ± 5	22 ± 5	24 ± 5
MEAN	22 ± 16	21 ± 18	22 ± 17	22 ± 18	22 ± 16

(1) SEE PROGRAM CHANGES SECTION FOR EXPLANATION

* THE MEAN AND 2 STANDARD DEVIATION VALUES ARE CALCULATED USING BOTH THE MDA AND POSITIVE VALUES

TABLE C-V.2 MONTHLY AND YEARLY MEAN VALUES OF GROSS BETA CONCENTRATIONS (E-3 PCI/CU METER) IN AIR PARTICULATE SAMPLES COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2005

GROUP I - ON-SITE LOCATIONS				GROUP II - NEAR-FIELD LOCATIONS				GROUP III - FAR-FIELD LOCATIONS				GROUP IV - CONTROL LOCATION			
COLLECTION PERIOD	MIN.	MAX.	MEAN ± 2 SD	COLLECTION PERIOD	MIN.	MAX.	MEAN ± 2 SD	COLLECTION PERIOD	MIN.	MAX.	MEAN ± 2 SD	COLLECTION PERIOD	MIN.	MAX.	MEAN ± 2 SD
12/31/04 - 01/28/05	21	41	30 ± 14	12/31/04 - 01/28/05	21	48	32 ± 15	12/31/04 - 01/28/05	(1)	(1)	(1)	12/31/04 - 01/28/05	23	38	31 ± 13
01/28/05 - 02/25/05	20	34	26 ± 10	01/28/05 - 02/25/05	22	33	28 ± 7	01/28/05 - 02/25/05				01/28/05 - 02/25/05	27	31	29 ± 4
02/25/05 - 04/01/05	13	24	20 ± 7	02/25/05 - 04/01/05	14	25	20 ± 7	02/25/05 - 04/01/05				02/25/05 - 04/01/05	14	22	19 ± 6
04/07/05 - 04/29/05	15	24	18 ± 8	04/07/05 - 04/29/05	15	26	20 ± 7	04/07/05 - 04/29/05				04/07/05 - 04/29/05	16	26	21 ± 10
04/29/05 - 06/03/05	10	20	16 ± 8	04/29/05 - 06/03/05	13	25	18 ± 8	04/29/05 - 06/03/05				04/29/05 - 06/03/05	15	21	18 ± 4
06/03/05 - 07/01/05	12	37	23 ± 19	06/03/05 - 07/01/05	4	54	24 ± 27	06/03/05 - 07/01/05				06/03/05 - 07/01/05	13	41	23 ± 25
07/01/05 - 07/29/05	< 6	21	12 ± 11	07/01/05 - 07/29/05	< 7	28	15 ± 11	07/01/05 - 07/29/05	7	26	15 ± 10	07/01/05 - 07/29/05	8	22	14 ± 12
07/29/05 - 09/02/05	10	26	18 ± 10	07/29/05 - 09/02/05	8	28	20 ± 12	07/29/05 - 09/02/05	8	30	20 ± 13	07/29/05 - 09/02/05	9	24	18 ± 11
09/02/05 - 09/30/05	16	38	22 ± 15	09/02/05 - 09/30/05	15	39	23 ± 16	09/02/05 - 09/30/05	15	43	25 ± 20	09/02/05 - 09/30/05	18	39	26 ± 19
09/30/05 - 10/28/05	11	24	15 ± 8	09/30/05 - 10/28/05	10	24	16 ± 8	09/30/05 - 10/28/05	12	25	18 ± 8	09/30/05 - 10/28/05	12	23	18 ± 10
10/28/05 - 12/02/05	13	32	21 ± 13	10/28/05 - 12/02/05	14	36	22 ± 13	10/28/05 - 12/02/05	14	35	22 ± 14	10/28/05 - 12/02/05	15	34	22 ± 17
12/02/05 - 12/30/05	19	46	29 ± 19	12/02/05 - 12/30/05	19	47	30 ± 16	12/02/05 - 12/30/05	19	48	31 ± 19	12/02/05 - 12/30/05	22	48	31 ± 24
01/28/05 - 12/28/05	< 6	46	21 ± 11	01/28/05 - 12/28/05	4	54	22 ± 11	01/28/05 - 12/28/05	7	48	22 ± 11	01/28/05 - 12/28/05	8	48	22 ± 11

(1) SEE PROGRAM CHANGES SECTION FOR EXPLANATION

TABLE C-V.3 **CONCENTRATIONS OF GAMMA EMITTERS IN AIR PARTICULATE SAMPLES COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2005**

RESULTS IN UNITS OF E-3 PCI/CU METER ± 2 SIGMA

STC	COLLECTION PERIOD		MN-54	CO-58	FE-59	CO-60	ZN-65	ZRNB-95	CS-134	CS-137	BALA140
D-01	12/31/04	03/25/05	< 10	< 10	< 15	< 10	< 40	< 10	< 50	< 60	< 25
	04/01/05	07/01/05	< 10	< 10	< 15	< 10	< 40	< 10	< 50	< 60	< 25
	07/01/05	09/30/05	< 2.8	< 2.7	< 12	< 3.4	< 6.6	< 6.0	< 2.7	< 2.3	< 67
	09/30/05	12/30/05	< 2.7	< 3.0	< 6.1	< 2.8	< 6.4	< 2.9	< 2.9	< 2.1	< 4.7
D-02	12/31/04	03/25/05	(1)								
	04/01/05	07/01/05	(1)								
(1)	09/16/05	09/30/05	< 37	< 33	< 112	< 22	< 80	< 44	< 30	< 27	< 675
	09/30/05	12/30/05	< 2.6	< 2.8	< 5.7	< 3.1	< 6.5	< 2.6	< 2.7	< 2.4	< 6.9
D-03	12/31/04	03/25/05	< 10	< 10	< 15	< 10	< 40	< 10	< 50	< 60	< 25
	04/01/05	07/01/05	< 10	< 10	< 15	< 10	< 40	< 10	< 50	< 60	< 25
	07/01/05	09/30/05	< 2.1	< 5.8	< 10	< 2.0	< 5.5	< 3.9	< 1.7	< 3.3	< 62
	09/30/05	12/30/05	< 2.1	< 2.2	< 5.4	< 1.7	< 5.8	< 2.2	< 2.8	< 2.3	< 8.9
D-04	12/31/04	03/25/05	< 10	< 10	< 15	< 10	< 40	< 10	< 50	< 60	< 25
	04/01/05	07/01/05	< 10	< 10	< 15	< 10	< 40	< 10	< 50	< 60	< 25
	07/01/05	09/30/05	< 0.9	< 1.6	< 4.5	< 1.1	< 2.9	< 1.7	< 0.9	< 1.1	< 24
	09/30/05	12/30/05	< 2.4	< 3.1	< 7.3	< 3.8	< 8.0	< 3.3	< 3.0	< 1.9	< 7.8

(1) SEE PROGRAM EXCEPTIONS SECTION FOR EXPLANATION
(2) SEE PROGRAM CHANGES SECTION FOR EXPLANATION
DUE TO VENDOR CHANGE, < VALUES ARE LLD VALUES JANUARY THROUGH JUNE AND MDC VALUES JULY THROUGH DECEMBER

TABLE C-V.3 **CONCENTRATIONS OF GAMMA EMITTERS IN AIR PARTICULATE SAMPLES COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2005**

RESULTS IN UNITS OF E-3 PCI/CU METER ± 2 SIGMA

STC	COLLECTION PERIOD		MN-54	CO-58	FE-59	CO-60	ZN-65	ZRNB-95	CS-134	CS-137	BALA140
D-07	12/31/04	03/25/05	< 10	< 10	< 15	< 10	< 40	< 10	< 50	< 60	< 25
	04/01/05	07/01/05	< 10	< 10	< 15	< 10	< 40	< 10	< 50	< 60	< 25
	07/01/05	09/30/05	< 2.0	< 1.7	< 7.0	< 1.3	< 3.4	< 2.4	< 1.4	< 1.2	< 47
	09/30/05	12/30/05	< 3.6	< 2.9	< 6.7	< 3.3	< 7.5	< 3.6	< 3.4	< 3.0	< 10
D-08	12/31/04	03/25/05	(2)								
	04/01/05	07/01/05	(2)								
	07/01/05	09/30/05	< 1.2	< 1.6	< 3.4	< 1.1	< 3.5	< 1.6	< 0.9	< 1.0	< 44
	09/30/05	12/30/05	< 3.5	< 3.9	< 7.5	< 1.3	< 6.5	< 2.6	< 3.1	< 3.0	< 8.8
D-10	12/31/04	03/25/05	(2)								
	04/01/05	07/01/05	(2)								
	07/01/05	09/30/05	< 1.1	< 2.0	< 6.0	< 1.0	< 3.7	< 2.4	< 1.2	< 1.5	< 42
	09/30/05	12/30/05	< 2.2	< 1.7	< 4.7	< 2.4	< 5.9	< 2.8	< 2.0	< 2.1	< 10
D-12	12/31/04	03/25/05	< 10	< 10	< 15	< 10	< 40	< 10	< 50	< 60	< 25
	04/01/05	07/01/05	< 10	< 10	< 15	< 10	< 40	< 10	< 50	< 60	< 25
	07/01/05	09/30/05	< 1.6	< 2.6	< 7.4	< 1.6	< 3.8	< 2.8	< 1.2	< 1.6	< 38
	09/30/05	12/30/05	< 2.8	< 2.2	< 6.0	< 2.3	< 7.5	< 2.8	< 2.3	< 1.9	< 9.4

(1) SEE PROGRAM EXCEPTIONS SECTION FOR EXPLANATION
(2) SEE PROGRAM CHANGES SECTION FOR EXPLANATION
DUE TO VENDOR CHANGE, < VALUES ARE LLD VALUES JANUARY THROUGH JUNE AND MDC VALUES JULY THROUGH DECEMBER

TABLE C-V.3 **CONCENTRATIONS OF GAMMA EMITTERS IN AIR PARTICULATE SAMPLES COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2005**

RESULTS IN UNITS OF E-3 PCI/CU METER ± 2 SIGMA

STC	COLLECTION PERIOD		MN-54	CO-58	FE-59	CO-60	ZN-65	ZRNB-95	CS-134	CS-137	BALA140
D-13	12/31/04	03/25/05	(2)								
	04/01/05	07/01/05	(2)								
	07/01/05	09/30/05	< 1.5	< 2.0	< 4.8	< 0.8	< 3.2	< 2.0	< 0.9	< 1.2	< 39
	09/30/05	12/30/05	< 2.1	< 1.9	< 5.8	< 2.0	< 4.7	< 2.1	< 2.0	< 1.8	< 8.6
D-14	12/31/04	03/25/05	(2)								
	04/01/05	07/01/05	(2)								
	07/01/05	09/30/05	< 1.6	< 2.6	< 8.0	< 2.1	< 4.4	< 3.1	< 1.4	< 1.3	< 53
	09/30/05	12/30/05	< 2.3	< 2.5	< 5.6	< 2.4	< 7.7	< 3.0	< 2.6	< 2.2	< 9.8
D-45	12/31/04	03/25/05	< 10	< 10	< 15	< 10	< 40	< 10	< 50	< 60	< 25
	04/01/05	07/01/05	< 10	< 10	< 15	< 10	< 40	< 10	< 50	< 60	< 25
	07/01/05	09/30/05	< 1.5	< 1.5	< 3.4	< 1.2	< 1.8	< 2.7	< 1.0	< 1.2	< 30
	09/30/05	12/30/05	< 2.5	< 2.3	< 6.4	< 2.3	< 4.8	< 2.1	< 2.6	< 2.4	< 10
D-53	12/31/04	03/25/05	< 10	< 10	< 15	< 10	< 40	< 10	< 50	< 60	< 25
	04/01/05	07/01/05	< 10	< 10	< 15	< 10	< 40	< 10	< 50	< 60	< 25
	07/01/05	09/30/05	< 1.4	< 1.8	< 5.4	< 1.4	< 3.7	< 1.8	< 1.2	< 1.3	< 39
	09/30/05	12/30/05	< 2.5	< 2.8	< 4.9	< 2.0	< 6.7	< 2.6	< 2.6	< 2.4	< 9.4

(1) SEE PROGRAM EXCEPTIONS SECTION FOR EXPLANATION
(2) SEE PROGRAM CHANGES SECTION FOR EXPLANATION
DUE TO VENDOR CHANGE, < VALUES ARE LLD VALUES JANUARY THROUGH JUNE AND MDC VALUES JULY THROUGH DECEMBER

TABLE C-VI.1 CONCENTRATIONS OF I-131 IN AIR IODINE SAMPLES COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2005

RESULTS IN UNITS OF E-3 PCI/CU METER + SIGMA

	GROUP I			GROUP II			
WEEK	D-01	D-02	D-03	D-04	D-07	D-45	D-53
1	< 70	(1)	< 70	< 70	< 70	< 70	< 70
2							
3	< 70		< 70	< 70	< 70	< 70	< 70
4							
5	< 70		< 70	< 70	< 70	< 70	< 70
6							
7	< 70		< 70	< 70	< 70	< 70	< 70
8							
9	< 70		< 70	< 70	< 70	< 70	< 70
10							
11	< 70		< 70	< 70	< 70	< 70	< 70
12							
13	< 70		< 70	< 70	< 70	< 70	< 70
14							
15	< 70		< 70	< 70	< 70	< 70	< 70
16							
17	< 70		< 70	< 70	< 70	< 70	< 70
18							
19	< 70		< 70	< 70	< 70	< 70	< 70
20							
21	< 70		< 70	< 70	< 70	< 70	< 70
22							
23	< 70		< 70	< 70	< 70	< 70	< 70
24							
25	< 70		< 70	< 70	< 70 (1)	< 70	< 70
26							
27	< 16		< 16	< 16	< 16	< 17	< 17
28							
29	< 13		< 13	< 13	< 13	< 14	< 14
30							
31	< 11		< 11	< 11	< 11	< 13	< 12
32							
33	< 13		< 13	< 13	< 17	< 15	< 15
34							
35	< 15		< 15	< 15	< 16	< 10	< 10
36							
37	< 8	< 8	< 8	< 8	< 8	< 13	< 13
38							
39	< 14	< 14	< 14	< 14	< 12	< 9	< 9
40							
41	< 13	< 13	< 13	< 13	< 16	< 13	< 13
42							
43	< 14	< 14	< 14	< 14	< 12	< 9	< 9
44							
45	< 34	< 34	< 34	< 34	< 22	< 34	< 33
46	< 53	< 53	< 53	< 53	< 35	< 32	< 31
47	< 27	< 27	< 27	< 27	< 38	< 24	< 23
48	< 47	< 35	< 35	< 35	< 23	< 26	< 26
49	< 32	< 32	< 32	< 32	< 27	< 18	< 17
50	< 18	< 18	< 18	< 18	< 24	< 18	< 18
51	< 49	< 50	< 50	< 49	< 38	< 25	< 24
52	< 39	< 40	< 40	< 40	< 26	< 25	< 23

(1) SEE PROGRAM EXCEPTIONS SECTION FOR EXPLANATION
(2) SEE PROGRAM CHANGES SECTION FOR EXPLANATION
DUE TO VENDOR CHANGE, < VALUES ARE LLD VALUES JANUARY THROUGH JUNE AND MDC VALUES JULY THROUGH DECEMBER

TABLE C-VI.1 CONCENTRATIONS OF I-131 IN AIR IODINE SAMPLES COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2005

RESULTS IN UNITS OF E-3 PCI/CU METER + SIGMA

	GROUP III				GROUP IIV
WEEK	D-08	D-10	D-13	D-14	D-12
1	(2)	(2)	(2)	(2)	< 70
2					
3					< 70
4					
5					< 70
6					
7					< 70
8					
9					< 70
10					
11					< 70
12					
13					< 70
14					
15					< 70
16					
17					< 70
18					
19					< 70
20					
21					< 70
22					
23					< 70
24					
25					< 70
26					
27	< 11	< 11	< 11	< 17	< 11
28					
29	< 15	< 15	< 15	< 14	< 14
30					
31	< 12	< 12	< 12	< 13	< 12
32					
33	< 17	< 17	< 15	< 15	< 17
34					
35	< 12	< 12	< 13	< 10	< 13
36					
37	< 15	< 16	< 15	< 13	< 15
38					
39	< 9	< 12	< 13	< 10	< 12
40					
41	< 13	< 11	< 17	< 17	< 17
42					
43	< 12	< 12	< 9	< 9	< 12
44					
45	< 33	< 33	< 33	< 34	< 22
46	< 42	< 42	< 42	< 32	< 42
47	< 38	< 38	< 18	< 24	< 38
48	< 30	< 30	< 30	< 26	< 30
49	< 27	< 27	< 18	< 18	< 27
50	< 25	< 24	< 15	< 10	< 24
51	< 28	< 28	< 28	< 25	< 28
52	< 20	< 19	< 19	< 25	< 19

(1) SEE PROGRAM EXCEPTIONS SECTION FOR EXPLANATION
(2) SEE PROGRAM CHANGES SECTION FOR EXPLANATION
DUE TO VENDOR CHANGE, < VALUES ARE LLD VALUES JANUARY THROUGH JUNE AND MDC VALUES JULY THROUGH DECEMBER

TABLE C-VII.1 CONCENTRATIONS OF I-131 IN MILK SAMPLES COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2005

RESULTS IN UNITS OF PCI/LITER ± 2 SIGMA

COLLECTION PERIOD	CONTROL FARM D-25
01/06/05	< 1.0
02/03/05	< 1.0
03/03/05	< 1.0
04/06/05	< 1.0
05/05/05	< 1.0
05/19/05	< 1.0
06/02/05	< 1.0
06/16/05	< 1.0
07/01/05	< 1.0
07/29/05	< 1.0
08/10/05	< 0.3
08/26/05	< 0.4
09/09/05	< 0.8
09/23/05	< 0.6
10/07/05	< 0.5
10/21/05	< 0.2
11/04/05	< 0.5
12/01/05	< 0.6

DUE TO VENDOR CHANGE, < VALUES ARE LLD VALUES JANUARY THROUGH JUNE AND MDC VALUES JULY THROUGH DECEMBER

TABLE C-VII.2 CONCENTRATIONS OF GAMMA EMITTERS IN MILK SAMPLES COLLECTED THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2005

RESULTS IN UNITS OF PCI/LITER ± 2 SIGMA

STC	COLLECTION PERIOD	MN-54	CO-58	FE-59	CO-60	ZN-65	ZRNB-95	CS-134	CS-137	BA-140	LA-140
D-25	01/06/05	< 10	< 10	< 15	< 10	< 15	< 10	< 15	< 18	< 60	< 15
	02/03/05	< 10	< 10	< 15	< 10	< 15	< 10	< 15	< 18	< 60	< 15
	03/03/05	< 10	< 10	< 15	< 10	< 15	< 10	< 15	< 18	< 60	< 15
	04/06/05	< 10	< 10	< 15	< 10	< 15	< 10	< 15	< 18	< 60	< 15
	05/05/05	< 10	< 10	< 15	< 10	< 15	< 10	< 15	< 18	< 60	< 15
	05/19/05	< 10	< 10	< 15	< 10	< 15	< 10	< 15	< 18	< 60	< 15
	06/02/05	< 10	< 10	< 15	< 10	< 15	< 10	< 15	< 18	< 60	< 15
	06/16/05	< 10	< 10	< 15	< 10	< 15	< 10	< 15	< 18	< 60	< 15
	07/01/05	< 10	< 10	< 15	< 10	< 15	< 10	< 15	< 18	< 60	< 15
	07/29/05	< 4	< 3	< 8	< 4	< 8	< 4	< 3	< 4	< 20	< 6
	08/10/05	< 5	< 3	< 9	< 4	< 10	< 4	< 4	< 4	< 19	< 6
	08/26/05	< 4	< 6	< 13	< 4	< 12	< 5	< 4	< 5	< 33	< 2
	09/09/05	< 6	< 6	< 13	< 6	< 13	< 6	< 5	< 5	< 33	< 10
	09/23/05	< 5	< 7	< 14	< 7	< 15	< 7	< 5	< 7	< 38	< 10
	10/07/05	< 4	< 5	< 13	< 4	< 13	< 5	< 4	< 5	< 25	< 8
	10/21/05	< 7	< 7	< 12	< 7	< 15	< 6	< 7	< 8	< 31	< 11
	11/04/05	< 6	< 6	< 11	< 8	< 15	< 6	< 6	< 7	< 33	< 10
	12/01/05	< 4	< 4	< 11	< 4	< 8	< 4	< 4	< 4	< 23	< 6

DUE TO VENDOR CHANGE, < VALUES ARE LLD VALUES JANUARY THROUGH JUNE AND MDC VALUES JULY THROUGH DECEMBER

TABLE C-VIII.1 **CONCENTRATIONS OF GAMMA EMITTERS IN VEGETATION SAMPLES COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2005**

RESULTS IN UNITS OF PCI/KG WET ± 2 SIGMA

STC	COLLECTION PERIOD	MN-54	CO-58	FE-59	CO-60	ZN-65	ZRNB-95	I-131	CS-134	CS-137	BALA140
D-QUAD 1 Cabbage	09/10/05	< 9	< 9	< 23	< 8	< 20	< 8	< 19	< 8	< 10	< 13
D-QUAD 1 Onions	09/10/05	< 10	< 10	< 25	< 10	< 21	< 11	< 23	< 8	< 9	< 17
	MEAN	9 ± 2	10 ± 1	24 ± 2	9 ± 2	21 ± 1	9 ± 3	21 ± 7	8 ± 0	10 ± 1	15 ± 7
D-QUAD 2 Cabbage	09/10/05	< 11	< 11	< 25	< 12	< 24	< 11	< 28	< 10	< 10	< 18
D-QUAD 2 Carrots	09/10/05	< 12	< 14	< 30	< 15	< 31	< 14	< 32	< 10	< 14	< 23
	MEAN	11 ± 2	12 ± 4	28 ± 7	14 ± 4	28 ± 10	13 ± 4	30 ± 6	10 ± 0	12 ± 5	21 ± 6
D-QUAD 3 Beets	09/10/05	< 9	< 9	< 19	< 9	< 20	< 9	< 23	< 8	< 9	< 19
D-QUAD 3 Cabbage	09/10/05	< 6	< 6	< 15	< 6	< 15	< 6	< 14	< 5	< 6	< 9
	MEAN	7 ± 4	8 ± 5	17 ± 7	7 ± 4	17 ± 7	8 ± 4	18 ± 13	6 ± 4	7 ± 4	14 ± 14
D-QUAD 4 Broccoli	09/10/05	< 6	< 6	< 16	< 7	< 15	< 7	< 16	< 5	< 6	< 10
D-QUAD 4 Potatoes	09/10/05	< 9	< 10	< 24	< 11	< 24	< 10	< 23	< 8	< 10	< 17
	MEAN	7 ± 4	8 ± 5	20 ± 12	9 ± 5	19 ± 13	8 ± 5	19 ± 9	7 ± 4	8 ± 5	13 ± 9
QUAD-C Beets	09/10/05	< 7	< 8	< 19	< 10	< 21	< 10	< 15	< 7	< 9	< 17
QUAD-C Cabbage	09/10/05	< 13	< 13	< 29	< 12	< 30	< 15	< 30	< 12	< 12	< 21
	MEAN	10 ± 7	10 ± 7	24 ± 14	11 ± 3	25 ± 12	12 ± 7	22 ± 21	9 ± 6	11 ± 4	19 ± 5

TABLE C-IX.1 QUARTERLY TLD RESULTS FOR DRESDEN NUCLEAR POWER STATION, 2005

RESULTS IN UNITS OF MILLI-ROENTGEN/QUARTER ± 2 STANDARD DEVIATIONS

STATION CODE	MEAN ± 2 S. D.	JAN - MAR	APR-JUN	JUL-SEP	OCT-DEC
D-01-1	25.5 ± 5.3	25	27	22	28
D-01-2	24.0 ± 5.7	24	22	22	28
D-02-1	24.0 ± 7.5	23	24	20	29
D-02-2	23.0 ± 7.1	23	21	20	28
D-03-1	20.8 ± 5.7	19	20	19	25
D-03-2	20.5 ± 7.7	19	20	17	26
D-04-1	24.0 ± 5.7	22	24	22	28
D-04-2	25.3 ± 4.4	26	26	22	27
D-07-1	22.8 ± 6.2	21	23	20	27
D-07-2	22.3 ± 6.4	21	21	20	27
D-08-1	24.8 ± 5.0	25	24	22	28
D-08-2	23.8 ± 5.7	22	23	22	28
D-10-1	25.3 ± 6.6	22	27	23	29
D-10-2	24.5 ± 5.3	23	25	22	28
D-12-1	22.0 ± 5.2	23	21	19	25
D-12-2	21.3 ± 5.3	21	20	19	25
D-13-1	22.3 ± 7.7	21	20	20	28
D-13-2	21.5 ± 4.2	22	21	19	24
D-14-1	21.5 ± 4.8	19	24	20	23
D-14-2	22.3 ± 3.4	23	22	20	24
D-45-1	25.3 ± 4.1	25	25	23	28
D-45-2	26.0 ± 3.7	27	25	24	28
D-53-1	20.8 ± 4.7	19	19	21	24
D-53-2	19.0 ± 2.8	18	19	18	21
D-101-1	25.0 ± 4.3	25	24	23	28
D-101-2	23.8 ± 3.4	23	26	22	24
D-102-1	26.3 ± 3.4	26	27	24	28
D-102-2	26.3 ± 4.7	26	28	23	28
D-103-1	25.0 ± 8.0	(1)	25	21	29
D-103-2	24.8 ± 5.5	26	23	22	28
D-104-1	26.3 ± 3.4	26	28	24	27
D-104-2	23.8 ± 3.4	24	23	22	26
D-105-1	24.5 ± 5.3	23	25	22	28
D-105-2	24.0 ± 2.8	24	25	22	25
D-106-1	23.0 ± 3.7	22	25	21	24
D-106-2	20.3 ± 2.5	19	20	20	22
D-107-1	20.0 ± 4.3	18	19	20	23
D-107-2	20.0 ± 4.3	19	20	18	23
D-108-1	25.8 ± 3.0	25	27	24	27
D-108-2	23.0 ± 5.2	22	24	20	26
D-109-1	25.3 ± 3.4	25	26	23	27
D-109-2	26.0 ± 7.3	22	28	24	30
D-110-3	28.3 ± 3.4	28	29	26	30
D-110-4	27.0 ± 6.3	24	28	25	31
D-111-1	25.0 ± 3.3	25	25	23	27
D-111-2	24.3 ± 4.4	22	27	23	25
D-112A-1	21.8 ± 4.7	20	22	20	25
D-112A-2	23.5 ± 4.8	22	26	21	25
D-113-1	21.5 ± 5.3	21	23	18	24
D-113-2	22.5 ± 6.2	20	22	21	27
D-114-1	21.5 ± 5.3	19	22	20	25
D-114-2	23.3 ± 4.4	22	24	21	26
D-115-1	24.0 ± 3.7	25	23	22	26
D-115-2	24.3 ± 4.7	24	26	21	26
D-116-1	26.0 ± 4.3	26	28	23	27
D-116-2	24.8 ± 4.7	25	23	23	28

(1) SEE PROGRAM EXCEPTIONS SECTION FOR EXPLANATION

TABLE C-IX.1 QUARTERLY TLD RESULTS FOR DRESDEN NUCLEAR POWER STATION, 2005

RESULTS IN UNITS OF MILLI-ROENTGEN/QUARTER ± 2 STANDARD DEVIATIONS

STATION CODE	MEAN ± 2 S. D.	JAN - MAR	APR-JUN	JUL-SEP	OCT-DEC
D-201-1	28.0 ± 6.3	27	30	24	31
D-201-2	27.5 ± 4.8	26	27	26	31
D-202-1	24.8 ± 4.1	25	25	22	27
D-202-2	25.3 ± 4.4	27	26	22	26
D-203-1	22.8 ± 3.4	23	22	21	25
D-203-2	21.5 ± 3.5	21	20	21	24
D-204-1	22.8 ± 3.0	22	22	22	25
D-204-2	22.0 ± 3.7	23	21	20	24
D-205-1	24.3 ± 6.0	25	21	23	28
D-205-2	22.5 ± 6.2	21	20	22	27
D-206-1	22.8 ± 3.0	22	22	22	25
D-206-2	23.8 ± 1.9	24	23	23	25
D-207-1	21.8 ± 5.0	22	19	21	25
D-207-2	22.0 ± 2.8	21	22	21	24
D-208-1	20.0 ± 5.2	21	17	19	23
D-208-2	19.8 ± 4.4	19	18	19	23
D-209-1	19.3 ± 3.8	19	18	18	22
D-209-2	20.0 ± 3.3	20	18	20	22
D-210-1	23.0 ± 5.2	24	22	20	26
D-210-2	23.5 ± 2.6	24	23	22	25
D-211-1	24.5 ± 2.0	25	25	23	25
D-211-2	24.5 ± 2.0	25	25	23	25
D-212-3	19.8 ± 4.4	19	18	19	23
D-212-4	20.8 ± 4.7	21	19	19	24
D-213-1	19.5 ± 4.8	19	18	18	23
D-213-2	19.3 ± 4.1	19	17	19	22
D-214-1	26.8 ± 5.0	27	26	24	30
D-214-2	26.8 ± 4.4	28	24	26	29
D-215-1	27.0 ± 5.2	28	26	24	30
D-215-2	25.3 ± 2.5	25	25	24	27
D-216-1	22.3 ± 3.8	22	21	21	25
D-216-2	26.5 ± 3.8	26	28	24	28

TABLE C-IX.2 MEAN QUARTERLY TLD RESULTS FOR THE INNER RING, OUTER RING, OTHER AND CONTROL LOCATIONS FOR DRESDEN NUCLEAR POWER STATION, 2005

RESULTS IN UNITS OF MILLI-ROENTGEN/QUARTER ± 2 STANDARD DEVIATIONS OF THE STATION DATA

STATION CODE	INNER RING	OUTER RING	OTHER	CONTROL
JAN-MAR	23.2 ± 5.1	23.1 ± 5.7	22.2 ± 5.2	23.0 ± 0.0
APR-JUN	24.7 ± 5.2	22.1 ± 6.9	22.9 ± 5.1	22.5 ± 4.2
JUL-SEP	21.9 ± 3.7	21.6 ± 4.3	20.9 ± 3.6	20.0 ± 0.0
OCT-DEC	26.4 ± 4.3	25.6 ± 5.2	26.5 ± 4.4	28.5 ± 1.4

TABLE C-IX.3 SUMMARY OF THE AMBIENT DOSIMETRY PROGRAM FOR DRESDEN NUCLEAR POWER STATION, 2005

RESULTS IN UNITS OF MILLI-ROENTGEN/QUARTER

LOCATION	SAMPLES ANALYZED	PERIOD MINIMUM	PERIOD MAXIMUM	PERIOD MEAN ± 2 S. D.
INNER RING	127	18.0	31.0	24.1 ± 5.7
OUTER RING	128	17.0	31.0	23.1 ± 6.3
OTHER	80	17.0	29.0	23.1 ± 6.1
CONTROL	8	20.0	29.0	23.5 ± 1.4

INNER RING STATIONS - D-101-1, D-101-2, D-102-1, D-102-2, D-103-1, D-103-2, D-104-1, D-104-2 D-105-1, D-105-2, D-106-1, D-106-2, D-107-1, D-107-2, D-108-1, D-108-2, D-109-1, D-109-2, D-110-3, D-110-4, D-111-1, D-111-2, D-112A-1, D-112A-2, D-113-1, D-113-2, D-114-1, D-114-2, D-115-1, D-115-2 D-116-1, D-116-2

INNER RING STATIONS - D-201-1, D-201-2, D-202-1, D-202-2, D-203-1, D-203-2, D-204-1, D-204-2 D-205-1, D-205-2, D-206-1, D-206-2, D-207-1, D-207-2, D-208-1, D-208-2, D-209-1, D-209-2, D-210-1, D-210-2, D-211-1, D-211-2, D-212-3, D-212-4, D-213-1, D-213-2, D-214-1, D-214-2, D-215-1, D-215-2 D-216-1, D-216-2

OTHER STATIONS - D-01-1, D-01-2, D-02-1, D-02-2, D-03-1, D-03-2, D-04-1, D-04-2, D-07-1, D-07-2 D-08-1, D-08-2, D-10-1, D-10-2, D-13-1, D-13-2, D-14-1, D-14-2, D-45-1, D-45-2, D-53-1, D-53-2

CONTROL STATIONS - D-12-1, D-12-2

TABLE C-X.1 SUMMARY OF COLLECTION DATES FOR SAMPLES COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2005

SURFACE WATER (TRITIUM LIQUID SCINTILLATION)

COLLECTION PERIOD	D-51	D-52	D-54
JAN-MAR	01/07/05 - 03/25/05	01/07/05 - 03/25/05	01/06/05 - 03/31/05
APR-JUN	04/01/05 - 07/01/05	04/01/05 - 07/01/05	04/07/05 - 06/30/05
JUL-SEP	07/08/05 - 09/30/05	07/08/05 - 09/30/05	07/07/05 - 09/29/05
OCT-DEC	10/07/05 - 12/30/05	10/07/05 - 12/30/05	10/06/05 - 12/29/05

SURFACE WATER (GROSS BETA & GAMMA SPECTROSCOPY)

COLLECTION PERIOD	D-51	D-52	D-54
JAN	01/07/05 - 01/28/05	01/07/05 - 01/28/05	01/06/05 - 01/27/05
FEB	02/04/05 - 02/25/05	02/04/05 - 02/25/05	02/03/05 - 02/24/05
MAR	03/04/05 - 03/25/05	03/04/05 - 03/25/05	03/03/05 - 03/31/05
APR	04/01/05 - 04/29/05	04/01/05 - 04/29/05	04/07/05 - 04/28/05
MAY	05/06/05 - 05/27/05	05/06/05 - 05/27/05	05/05/05 - 05/26/05
JUN	06/03/05 - 07/01/05	06/03/05 - 07/01/05	06/02/05 - 06/30/05
JUL	07/08/05 - 07/29/05	07/08/05 - 07/29/05	07/07/05 - 07/28/05
AUG	08/05/05 - 08/26/05	08/05/05 - 08/26/05	08/04/05 - 08/25/05
SEP	09/02/05 - 09/30/05	09/02/05 - 09/30/05	09/01/05 - 09/29/05
OCT	10/07/05 - 10/28/05	10/07/05 - 10/28/05	10/06/05 - 10/27/05
NOV	11/04/05 - 11/25/05	11/04/05 - 11/25/05	11/03/05 - 11/25/05
DEC	12/02/05 - 12/30/05	12/02/05 - 12/30/05	12/01/05 - 12/29/05

GROUND WATER (TRITIUM & GAMMA SPECTROSCOPY)

COLLECTION PERIOD	D-23	D-35
JAN-MAR	01/14/05	01/14/05
APR-JUN	04/14/05	04/14/05
JUL-SEP	07/15/05	07/15/05
OCT-DEC	10/14/05	10/14/05

TABLE C-X.1 SUMMARY OF COLLECTION DATES FOR SAMPLES COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2005

AIR PARTICULATE (GAMMA SPECTROSCOPY)

COLLECTION PERIOD	D-01	D-02	D-03	D-04	D-07
JAN-MAR	12/31/04 - 03/25/05	(1)	12/31/04 - 03/25/05	12/31/04 - 03/25/05	12/31/04 - 03/25/05
APR-JUN	03/25/05 - 07/01/05		03/25/05 - 07/01/05	03/25/05 - 07/01/05	03/25/05 - 07/01/05
JUL-SEP	07/01/05 - 09/30/05	09/16/05 - 09/30/05	07/01/05 - 09/30/05	07/01/05 - 09/30/05	07/01/05 - 09/30/05
OCT-DEC	09/30/05 - 12/30/05	09/30/05 - 12/30/05	09/30/05 - 12/30/05	09/30/05 - 12/30/05	09/30/05 - 12/30/05

AIR PARTICULATE (GAMMA SPECTROSCOPY)

COLLECTION PERIOD	D-08	D-10	D-12	D-13	D-14
JAN-MAR	(2)	(2)	12/31/04 - 03/25/05	(2)	(2)
APR-JUN			03/25/05 - 07/01/05		
JUL-SEP	07/01/05 - 09/30/05	07/01/05 - 09/30/05	07/01/05 - 09/30/05	07/01/05 - 09/30/05	07/01/05 - 09/30/05
OCT-DEC	09/30/05 - 12/30/05	09/30/05 - 12/30/05	09/30/05 - 12/30/05	09/30/05 - 12/30/05	09/30/05 - 12/30/05

AIR PARTICULATE (GAMMA SPECTROSCOPY)

COLLECTION PERIOD	D-45	D-53
JAN-MAR	12/31/04 - 03/25/05	12/31/04 - 03/25/05
APR-JUN	03/25/05 - 07/01/05	03/25/05 - 07/01/05
JUL-SEP	07/01/05 - 09/30/05	07/01/05 - 09/30/05
OCT-DEC	09/30/05 - 12/30/05	09/30/05 - 12/30/05

(1) SEE PROGRAM EXCEPTIONS SECTION FOR EXPLANATION
(2) SEE PROGRAM CHANGES SECTION FOR EXPLANATION

TABLE C-X.1 **SUMMARY OF COLLECTION DATES FOR SAMPLES COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2005**

AIR PARTICULATE (GROSS BETA & I-131)

COLLECTION PERIOD		D-01	D-02	D-03	D-04	D-07
1		12/31/04 - 01/07/05	(1)	12/31/04 - 01/07/05	12/31/04 - 01/07/05	12/31/04 - 01/07/05
2	*	01/07/05 - 01/14/05		01/07/05 - 01/14/05	01/07/05 - 01/14/05	01/07/05 - 01/14/05
3		01/14/05 - 01/21/05		01/14/05 - 01/21/05	01/14/05 - 01/21/05	01/14/05 - 01/21/05
4	*	01/21/05 - 01/28/05		01/21/05 - 01/28/05	01/21/05 - 01/28/05	01/21/05 - 01/28/05
5		01/28/05 - 02/04/05		01/28/05 - 02/04/05	01/28/05 - 02/04/05	01/28/05 - 02/04/05
6	*	02/04/05 - 02/10/05		02/04/05 - 02/10/05	02/04/05 - 02/10/05	02/04/05 - 02/10/05
7		02/10/05 - 02/18/05		02/10/05 - 02/18/05	02/10/05 - 02/18/05	02/10/05 - 02/18/05
8	*	02/18/05 - 02/25/05		02/18/05 - 02/25/05	02/18/05 - 02/25/05	02/18/05 - 02/25/05
9		02/25/05 - 03/04/05		02/25/05 - 03/04/05	02/25/05 - 03/04/05	02/25/05 - 03/04/05
10	*	03/04/05 - 03/10/05		03/04/05 - 03/10/05	03/04/05 - 03/10/05	03/04/05 - 03/10/05
11		03/10/05 - 03/18/05		03/10/05 - 03/18/05	03/10/05 - 03/18/05	03/10/05 - 03/18/05
12	*	03/18/05 - 03/25/05		03/18/05 - 03/25/05	03/18/05 - 03/25/05	03/18/05 - 03/25/05
13		03/25/05 - 04/01/05		03/25/05 - 04/01/05	03/25/05 - 04/01/05	03/25/05 - 04/01/05
14	*	04/01/05 - 04/07/05		04/01/05 - 04/07/05	04/01/05 - 04/07/05	04/01/05 - 04/07/05
15		04/07/05 - 04/14/05		04/07/05 - 04/14/05	04/07/05 - 04/14/05	04/07/05 - 04/14/05
16	*	04/14/05 - 04/22/05		04/14/05 - 04/22/05	04/14/05 - 04/22/05	04/14/05 - 04/22/05
17		04/22/05 - 04/29/05		04/22/05 - 04/29/05	04/22/05 - 04/29/05	04/22/05 - 04/29/05
18	*	04/29/05 - 05/06/05		04/29/05 - 05/06/05	04/29/05 - 05/06/05	04/29/05 - 05/06/05
19		05/06/05 - 05/13/05		05/06/05 - 05/13/05	05/06/05 - 05/13/05	05/06/05 - 05/13/05
20	*	05/13/05 - 05/20/05		05/13/05 - 05/20/05	05/13/05 - 05/20/05	05/13/05 - 05/20/05
21		05/20/05 - 05/27/05		05/20/05 - 05/27/05	05/20/05 - 05/27/05	05/20/05 - 05/27/05
22	*	05/27/05 - 06/03/05		05/27/05 - 06/03/05	05/27/05 - 06/03/05	05/27/05 - 06/03/05
23		06/03/05 - 06/10/05		06/03/05 - 06/10/05	06/03/05 - 06/10/05	06/03/05 - 06/10/05
24	*	06/10/05 - 06/17/05		06/10/05 - 06/17/05	06/10/05 - 06/17/05	(1)
25		06/17/05 - 06/24/05		06/17/05 - 06/24/05	06/17/05 - 06/24/05	06/17/05 - 06/24/05
26	*	06/24/05 - 07/01/05		06/24/05 - 07/01/05	06/24/05 - 07/01/05	06/24/05 - 07/01/05
27		07/01/05 - 07/08/05		07/01/05 - 07/08/05	07/01/05 - 07/08/05	07/01/05 - 07/08/05
28	*	07/08/05 - 07/15/05		07/08/05 - 07/15/05	07/08/05 - 07/15/05	07/08/05 - 07/15/05
29		07/15/05 - 07/22/05		07/15/05 - 07/22/05	07/15/05 - 07/22/05	07/15/05 - 07/22/05
30	*	07/22/05 - 07/29/05		07/22/05 - 07/29/05	07/22/05 - 07/29/05	07/22/05 - 07/29/05
31		07/29/05 - 08/05/05		07/29/05 - 08/05/05	07/29/05 - 08/05/05	07/29/05 - 08/05/05
32	*	08/05/05 - 08/12/05		08/05/05 - 08/12/05	08/05/05 - 08/12/05	08/05/05 - 08/12/05
33		08/12/05 - 08/19/05		08/12/05 - 08/19/05	08/12/05 - 08/19/05	08/12/05 - 08/19/05
34	*	08/19/05 - 08/26/05		08/19/05 - 08/26/05	08/19/05 - 08/26/05	08/19/05 - 08/26/05
35		08/26/05 - 09/02/05		08/26/05 - 09/02/05	08/26/05 - 09/02/05	08/26/05 - 09/02/05
36	*	09/02/05 - 09/09/05		09/02/05 - 09/09/05	09/02/05 - 09/09/05	09/02/05 - 09/09/05
37		09/09/05 - 09/16/05		09/09/05 - 09/16/05	09/09/05 - 09/16/05	09/09/05 - 09/16/05
38	*	09/16/05 - 09/23/05	09/16/05 - 09/23/05	09/16/05 - 09/23/05	09/16/05 - 09/23/05	09/16/05 - 09/23/05
39		09/23/05 - 09/30/05	09/23/05 - 09/30/05	09/23/05 - 09/30/05	09/23/05 - 09/30/05	09/23/05 - 09/30/05
40	*	09/30/05 - 10/07/05	09/30/05 - 10/07/05	09/30/05 - 10/07/05	09/30/05 - 10/07/05	09/30/05 - 10/07/05
41		10/07/05 - 10/14/05	10/07/05 - 10/14/05	10/07/05 - 10/14/05	10/07/05 - 10/14/05	10/07/05 - 10/14/05
42	*	10/14/05 - 10/21/05	10/14/05 - 10/21/05	10/14/05 - 10/21/05	10/14/05 - 10/21/05	10/14/05 - 10/21/05
43		10/21/05 - 10/28/05	10/21/05 - 10/28/05	10/21/05 - 10/28/05	10/21/05 - 10/28/05	10/21/05 - 10/28/05
44	*	10/28/05 - 11/04/05	10/28/05 - 11/04/05	10/28/05 - 11/04/05	10/28/05 - 11/04/05	10/28/05 - 11/04/05
45		11/04/05 - 11/11/05	11/04/05 - 11/11/05	11/04/05 - 11/11/05	11/04/05 - 11/11/05	11/04/05 - 11/11/05
46		11/11/05 - 11/18/05	11/11/05 - 11/18/05	11/11/05 - 11/18/05	11/11/05 - 11/18/05	11/11/05 - 11/18/05
47		11/18/05 - 11/25/05	11/18/05 - 11/25/05	11/18/05 - 11/25/05	11/18/05 - 11/25/05	11/18/05 - 11/25/05
48		11/25/05 - 12/02/05	11/25/05 - 12/02/05	11/25/05 - 12/02/05	11/25/05 - 12/02/05	11/25/05 - 12/02/05
49		12/02/05 - 12/09/05	12/02/05 - 12/09/05	12/02/05 - 12/09/05	12/02/05 - 12/09/05	12/02/05 - 12/09/05
50		12/09/05 - 12/16/05	12/09/05 - 12/16/05	12/09/05 - 12/16/05	12/09/05 - 12/16/05	12/09/05 - 12/16/05
51		12/16/05 - 12/23/05	12/16/05 - 12/23/05	12/16/05 - 12/23/05	12/16/05 - 12/23/05	12/16/05 - 12/23/05
52		12/23/05 - 12/30/05	12/23/05 - 12/30/05	12/23/05 - 12/30/05	12/23/05 - 12/30/05	12/23/05 - 12/30/05

* AIR IODINE SAMPLES COLLECTED BIWEEKLY

(1) SEE PROGRAM EXCEPTIONS SECTION FOR EXPLANATION

(2) SEE PROGRAM CHANGES SECTION FOR EXPLANATION

TABLE C-X.1 **SUMMARY OF COLLECTION DATES FOR SAMPLES COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2005**

AIR PARTICULATE (GROSS BETA & I-131)

COLLECTION PERIOD		D-08	D-10	D-12	D-13	D-14
1		(2)	(2)	12/31/04 - 01/07/05	(2)	(2)
2	*			01/07/05 - 01/14/05		
3				01/14/05 - 01/21/05		
4	*			01/21/05 - 01/28/05		
5				01/28/05 - 02/04/05		
6	*			02/04/05 - 02/10/05		
7				02/10/05 - 02/18/05		
8	*			02/18/05 - 02/25/05		
9				02/25/05 - 03/04/05		
10	*			03/04/05 - 03/10/05		
11				03/10/05 - 03/18/05		
12	*			03/18/05 - 03/25/05		
13				03/25/05 - 04/01/05		
14	*			04/01/05 - 04/07/05		
15				04/07/05 - 04/14/05		
16	*			04/14/05 - 04/22/05		
17				04/22/05 - 04/29/05		
18	*			04/29/05 - 05/06/05		
19				05/06/05 - 05/13/05		
20	*			05/13/05 - 05/20/05		
21				05/20/05 - 05/27/05		
22	*			05/27/05 - 06/03/05		
23				06/03/05 - 06/10/05		
24	*			06/10/05 - 06/17/05		
25				06/17/05 - 06/24/05		
26	*			06/24/05 - 07/01/05		
27		07/01/05 - 07/08/05	07/01/05 - 07/08/05	07/01/05 - 07/08/05	07/01/05 - 07/08/05	07/01/05 - 07/08/05
28	*	07/08/05 - 07/15/05	07/08/05 - 07/15/05	07/08/05 - 07/15/05	07/08/05 - 07/15/05	07/08/05 - 07/15/05
29		07/15/05 - 07/22/05	07/15/05 - 07/22/05	07/15/05 - 07/22/05	07/15/05 - 07/22/05	07/15/05 - 07/22/05
30	*	07/22/05 - 07/29/05	07/22/05 - 07/29/05	07/22/05 - 07/29/05	07/22/05 - 07/29/05	07/22/05 - 07/29/05
31		07/29/05 - 08/05/05	07/29/05 - 08/05/05	07/29/05 - 08/05/05	07/29/05 - 08/05/05	07/29/05 - 08/05/05
32	*	08/05/05 - 08/12/05	08/05/05 - 08/12/05	08/05/05 - 08/12/05	08/05/05 - 08/12/05	08/05/05 - 08/12/05
33		08/12/05 - 08/19/05	08/12/05 - 08/19/05	08/12/05 - 08/19/05	08/12/05 - 08/19/05	08/12/05 - 08/19/05
34	*	08/19/05 - 08/26/05	08/19/05 - 08/26/05	08/19/05 - 08/26/05	08/19/05 - 08/26/05	08/19/05 - 08/26/05
35		08/26/05 - 09/02/05	08/26/05 - 09/02/05	08/26/05 - 09/02/05	08/26/05 - 09/02/05	08/26/05 - 09/02/05
36	*	09/02/05 - 09/09/05	09/02/05 - 09/09/05	09/02/05 - 09/09/05	09/02/05 - 09/09/05	09/02/05 - 09/09/05
37		09/09/05 - 09/16/05	09/09/05 - 09/16/05	09/09/05 - 09/16/05	09/09/05 - 09/16/05	09/09/05 - 09/16/05
38	*	09/16/05 - 09/23/05	09/16/05 - 09/23/05	09/16/05 - 09/23/05	09/16/05 - 09/23/05	09/16/05 - 09/23/05
39		09/23/05 - 09/30/05	09/23/05 - 09/30/05	09/23/05 - 09/30/05	09/23/05 - 09/30/05	09/23/05 - 09/30/05
40	*	09/30/05 - 10/07/05	09/30/05 - 10/07/05	09/30/05 - 10/07/05	09/30/05 - 10/07/05	09/30/05 - 10/07/05
41		10/07/05 - 10/14/05	10/07/05 - 10/14/05	10/07/05 - 10/14/05	10/07/05 - 10/14/05	10/07/05 - 10/14/05
42	*	10/14/05 - 10/21/05	10/14/05 - 10/21/05	10/14/05 - 10/21/05	10/14/05 - 10/21/05	10/14/05 - 10/21/05
43		10/21/05 - 10/28/05	10/21/05 - 10/28/05	10/21/05 - 10/28/05	10/21/05 - 10/28/05	10/21/05 - 10/28/05
44	*	10/28/05 - 11/04/05	10/28/05 - 11/04/05	10/28/05 - 11/04/05	10/28/05 - 11/04/05	10/28/05 - 11/04/05
45		11/04/05 - 11/11/05	11/04/05 - 11/11/05	11/04/05 - 11/11/05	11/04/05 - 11/11/05	11/04/05 - 11/11/05
46		11/11/05 - 11/18/05	11/11/05 - 11/18/05	11/04/05 - 11/11/05	11/11/05 - 11/18/05	11/11/05 - 11/18/05
47		11/18/05 - 11/25/05	11/18/05 - 11/25/05	11/11/05 - 11/18/05	11/18/05 - 11/25/05	11/18/05 - 11/25/05
48		11/25/05 - 12/02/05	11/25/05 - 12/02/05	11/18/05 - 11/25/05	11/18/05 - 11/25/05	11/25/05 - 12/02/05
49		12/02/05 - 12/09/05	12/02/05 - 12/09/05	11/25/05 - 12/02/05	11/25/05 - 12/02/05	12/02/05 - 12/09/05
50		12/09/05 - 12/16/05	12/09/05 - 12/16/05	12/02/05 - 12/09/05	12/02/05 - 12/09/05	12/09/05 - 12/16/05
51		12/16/05 - 12/23/05	12/16/05 - 12/23/05	12/09/05 - 12/16/05	12/09/05 - 12/16/05	12/16/05 - 12/23/05
52		12/23/05 - 12/30/05	12/23/05 - 12/30/05	12/16/05 - 12/23/05	12/16/05 - 12/23/05	12/23/05 - 12/30/05

* AIR IODINE SAMPLES COLLECTED BIWEEKLY

(1) SEE PROGRAM EXCEPTIONS SECTION FOR EXPLANATION

(2) SEE PROGRAM CHANGES SECTION FOR EXPLANATION

TABLE C-X.1 **SUMMARY OF COLLECTION DATES FOR SAMPLES COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2005**

AIR PARTICULATE (GROSS BETA & I-131)

COLLECTION PERIOD		D-45	D-53
1		12/31/04 - 01/07/05	12/31/04 - 01/07/05
2	*	01/07/05 - 01/14/05	01/07/05 - 01/14/05
3		01/14/05 - 01/21/05	01/14/05 - 01/21/05
4	*	01/21/05 - 01/28/05	01/21/05 - 01/28/05
5		01/28/05 - 02/04/05	01/28/05 - 02/04/05
6	*	02/04/05 - 02/10/05	02/04/05 - 02/10/05
7		02/10/05 - 02/18/05	02/10/05 - 02/18/05
8	*	02/18/05 - 02/25/05	02/18/05 - 02/25/05
9		02/25/05 - 03/04/05	02/25/05 - 03/04/05
10	*	03/04/05 - 03/10/05	03/04/05 - 03/10/05
11		03/10/05 - 03/18/05	03/10/05 - 03/18/05
12	*	03/18/05 - 03/25/05	03/18/05 - 03/25/05
13		03/25/05 - 04/01/05	03/25/05 - 04/01/05
14	*	04/01/05 - 04/07/05	04/01/05 - 04/07/05
15		04/07/05 - 04/14/05	04/07/05 - 04/14/05
16	*	04/14/05 - 04/22/05	04/14/05 - 04/22/05
17		04/22/05 - 04/29/05	04/22/05 - 04/29/05
18	*	04/29/05 - 05/06/05	04/29/05 - 05/06/05
19		05/06/05 - 05/13/05	05/06/05 - 05/13/05
20	*	05/13/05 - 05/20/05	05/13/05 - 05/20/05
21		05/20/05 - 05/27/05	05/20/05 - 05/27/05
22	*	05/27/05 - 06/03/05	05/27/05 - 06/03/05
23		06/03/05 - 06/10/05	06/03/05 - 06/10/05
24	*	06/10/05 - 06/17/05	06/10/05 - 06/17/05
25		06/17/05 - 06/24/05	06/17/05 - 06/24/05
26	*	06/24/05 - 07/01/05	06/24/05 - 07/01/05
27		07/01/05 - 07/08/05	07/01/05 - 07/08/05
28	*	07/08/05 - 07/15/05	07/08/05 - 07/15/05
29		07/15/05 - 07/22/05	07/15/05 - 07/22/05
30	*	07/22/05 - 07/29/05	07/22/05 - 07/29/05
31		07/29/05 - 08/05/05	07/29/05 - 08/05/05
32	*	08/05/05 - 08/12/05	08/05/05 - 08/12/05
33		08/12/05 - 08/19/05	08/12/05 - 08/19/05
34	*	08/19/05 - 08/26/05	08/19/05 - 08/26/05
35		08/26/05 - 09/02/05	08/26/05 - 09/02/05
36	*	09/02/05 - 09/09/05	09/02/05 - 09/09/05
37		09/09/05 - 09/16/05	09/09/05 - 09/16/05
38	*	09/16/05 - 09/23/05	09/16/05 - 09/23/05
39		09/23/05 - 09/30/05	09/23/05 - 09/30/05
40	*	09/30/05 - 10/07/05	09/30/05 - 10/07/05
41		10/07/05 - 10/14/05	09/30/05 - 12/30/05
42	*	10/14/05 - 10/21/05	10/14/05 - 10/21/05
43		10/21/05 - 10/28/05	10/21/05 - 10/28/05
44	*	10/28/05 - 11/04/05	10/28/05 - 11/04/05
45		11/04/05 - 11/11/05	11/04/05 - 11/11/05
46		11/11/05 - 11/18/05	11/11/05 - 11/18/05
47		11/18/05 - 11/25/05	11/18/05 - 11/25/05
48		11/25/05 - 12/02/05	11/25/05 - 12/02/05
49		12/02/05 - 12/09/05	12/02/05 - 12/09/05
50		12/09/05 - 12/16/05	12/09/05 - 12/16/05
51		12/16/05 - 12/23/05	12/16/05 - 12/23/05
52		12/23/05 - 12/30/05	12/23/05 - 12/30/05

* AIR IODINE SAMPLES COLLECTED BIWEEKLY

TABLE C-X.1 SUMMARY OF COLLECTION DATES FOR SAMPLES COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2005

TLD

STATION CODE	JAN - MAR	APR - JUN	JUL - SEP	OCT - DEC
D-01-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-01-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-02-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-02-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-03-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-03-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-04-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-04-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-07-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-07-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-08-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-08-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-10-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-10-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-12-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-12-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-13-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-13-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-14-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-14-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-45-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-45-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-53-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-53-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-101-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-101-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-102-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-102-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-103-1	(1)	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-103-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-104-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-104-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-105-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-105-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-106-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-106-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-107-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-107-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-108-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-108-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-109-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-109-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-110-3	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-110-4	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-111-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-111-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-112A-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-112A-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-113-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-113-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-114-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-114-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-115-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-115-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-116-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-116-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05

(1) SEE PROGRAM EXCEPTIONS SECTION FOR EXPLANATION

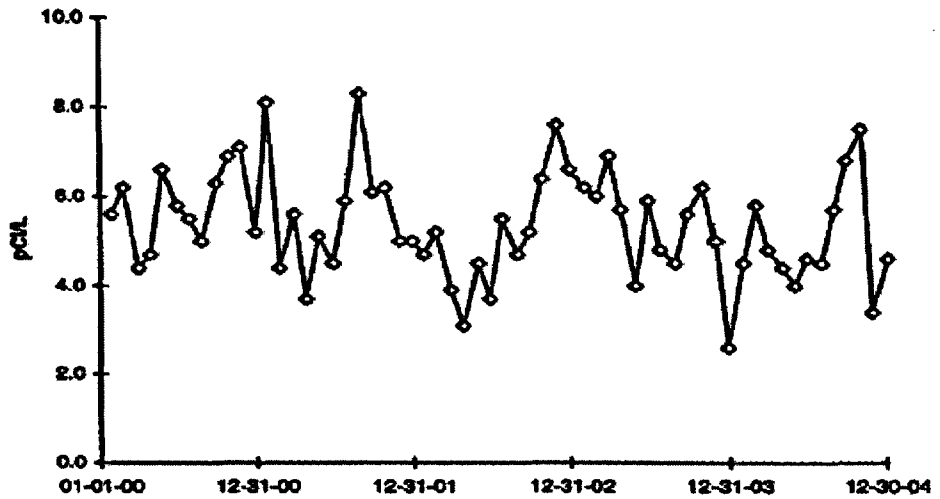
TABLE C-X.1 SUMMARY OF COLLECTION DATES FOR SAMPLES COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2005

TLD

STATION CODE	JAN - MAR	APR - JUN	JUL - SEP	OCT - DEC
D-201-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-201-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-202-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-202-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-203-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-203-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-204-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-204-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-205-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-205-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-206-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-206-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-207-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-207-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-208-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-208-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-209-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-209-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-210-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-210-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-211-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-211-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-212-3	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-212-4	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-213-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-213-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-214-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-214-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-215-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-215-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-216-1	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05
D-216-2	12/31/04 - 04/01/05	04/01/05 - 07/01/05	07/01/05 - 09/30/05	09/30/05 - 12/30/05

FIGURE C-1
SURFACE WATER - GROSS BETA - STATIONS D-51 and D-52 (C) COLLECTED IN THE VICINITY OF DNPS, 2000 - 2004

D-51 Dresden Lock & Dam



D-52 (C) DesPlaines River

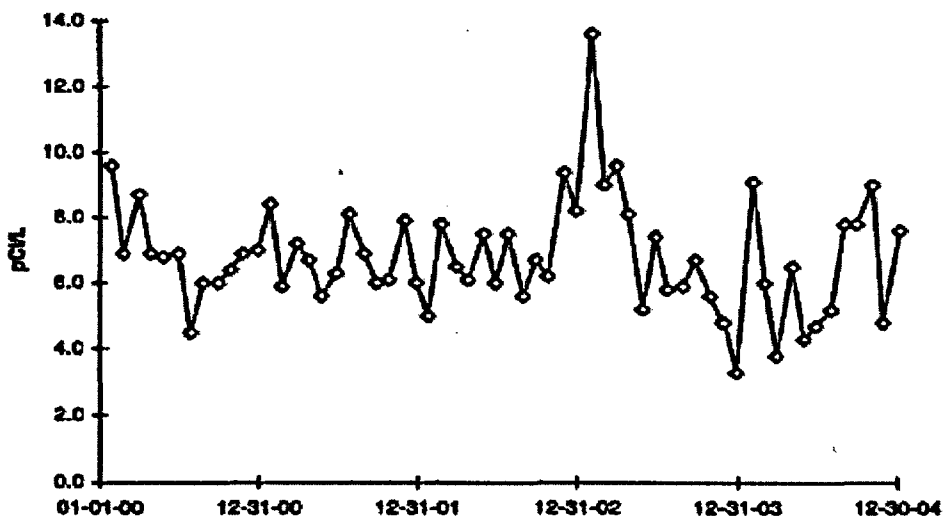
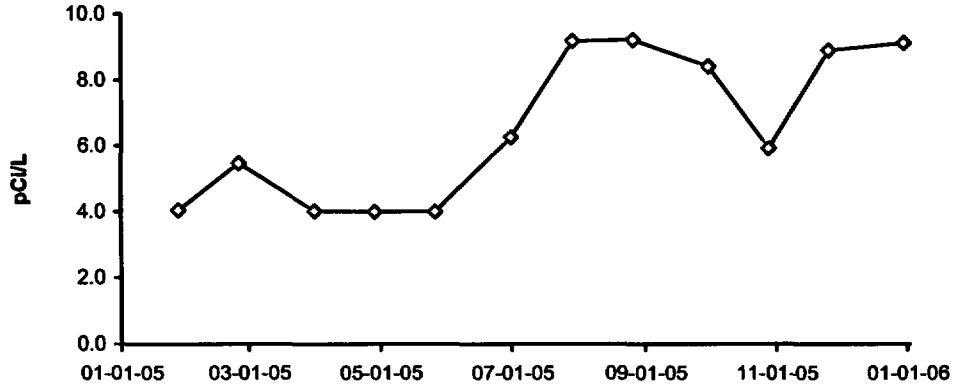
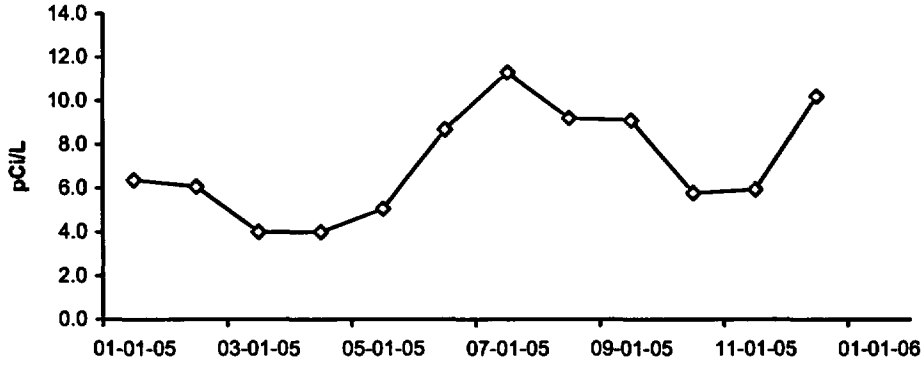


FIGURE C-1 (cont.)
SURFACE WATER - GROSS BETA - STATIONS D-51 and D-52 (C) COLLECTED IN THE VICINITY OF DNPS, 2005

D-51 Dresden Lock & Dam



D-52 (C) DesPlaines River



DUE TO VENDOR CHANGE, < VALUES ARE LLD VALUES JANUARY THROUGH JUNE AND MDC VALUES JULY THROUGH DECEMBER

FIGURE C-2
SURFACE WATER - GROSS BETA - STATION D-54 (C)
COLLECTED IN THE VICINITY OF DNPS, 2000 - 2004

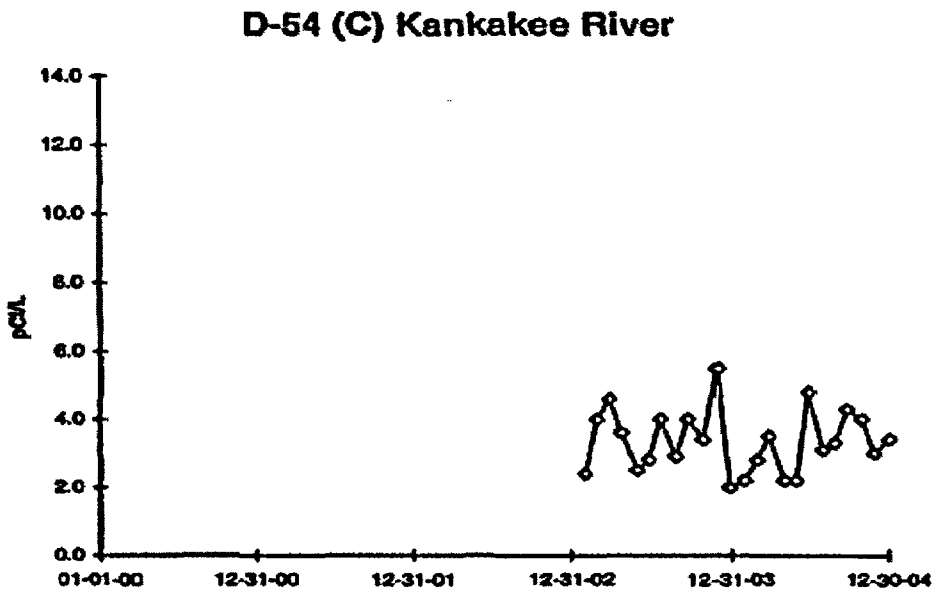
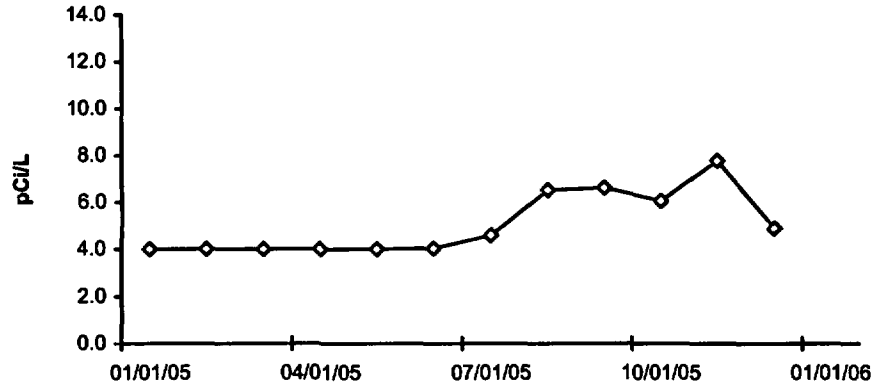


FIGURE C-2 (cont.)
SURFACE WATER - GROSS BETA - STATION D-54 (C)
COLLECTED IN THE VICINITY OF DNPS, 2005

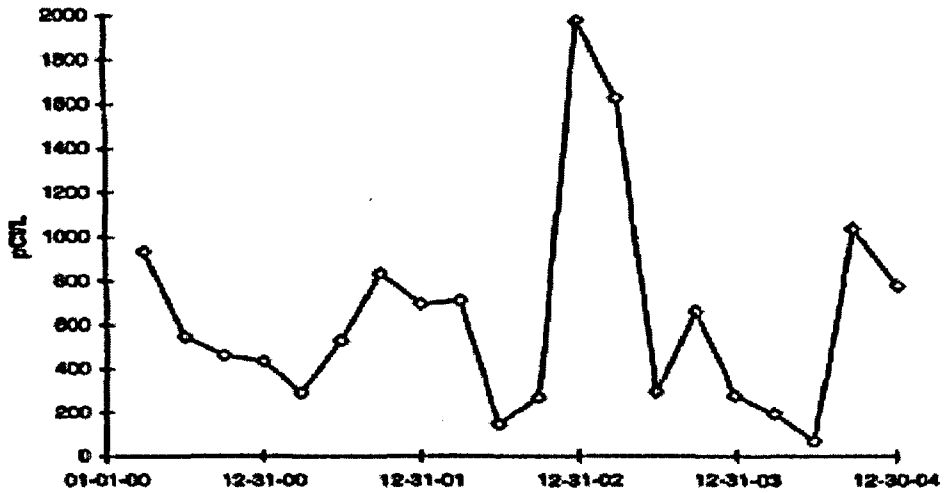
D-54 (C) Kankakee River



DUE TO VENDOR CHANGE, < VALUES ARE LLD VALUES JANUARY THROUGH JUNE AND MDC VALUES JULY THROUGH DECEMBER

FIGURE C-3
SURFACE WATER - TRITIUM - STATIONS D-51 and D-52 (C) COLLECTED IN THE VICINITY OF DNPS, 2000 - 2004

D-51 Dresden Lock & Dam



D-52 (C) Des Plaines River

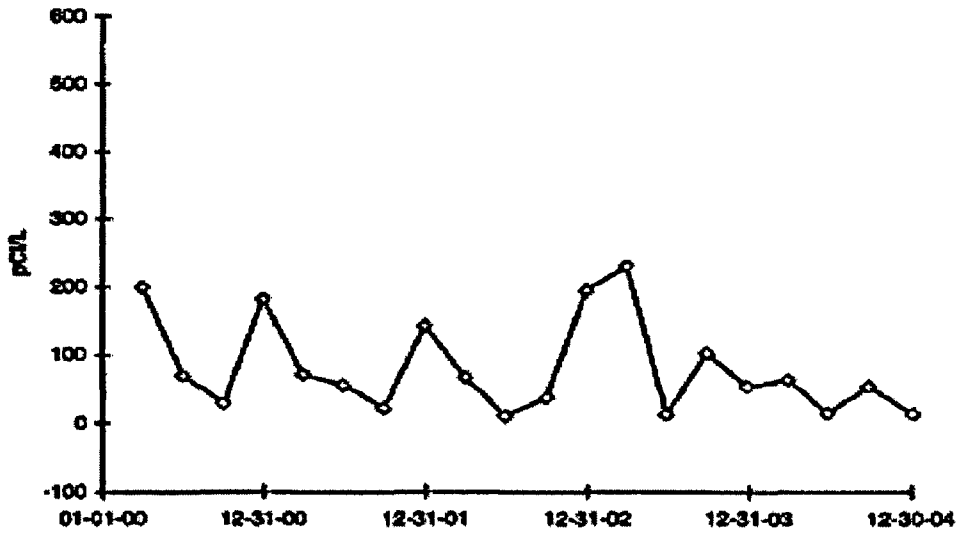
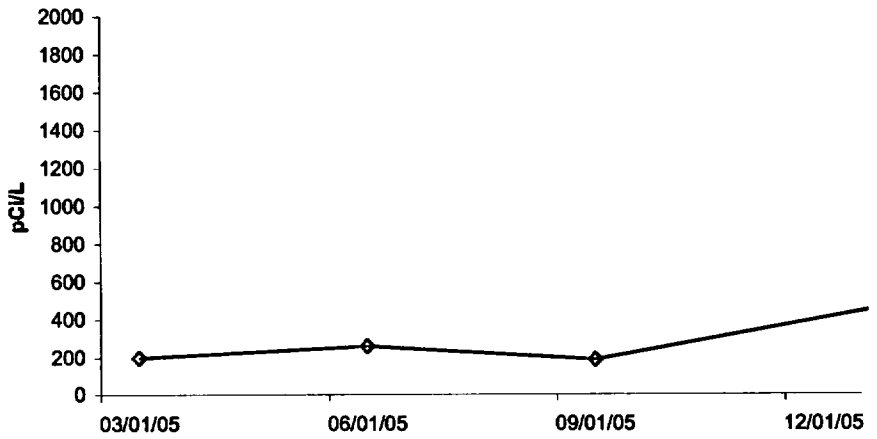
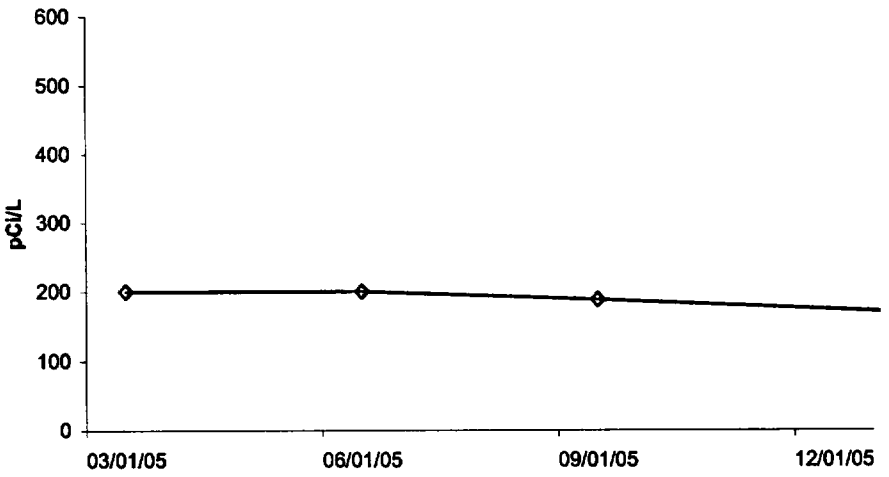


FIGURE C-3 (cont.)
SURFACE WATER - TRITIUM - STATIONS D-51 and D-52 (C) COLLECTED IN THE VICINITY OF DNPS, 2005

D-51 Dresden Lock & Dam



D-52 (C) Des Plaines River



DUE TO VENDOR CHANGE, < VALUES ARE LLD VALUES JANUARY THROUGH JUNE AND MDC VALUES JULY THROUGH DECEMBER

FIGURE C-4
SURFACE WATER - TRITIUM - STATION D-54 (C)
COLLECTED IN THE VICINITY OF DNPS, 2002 - 2004

D-54 (C) Kankakee River

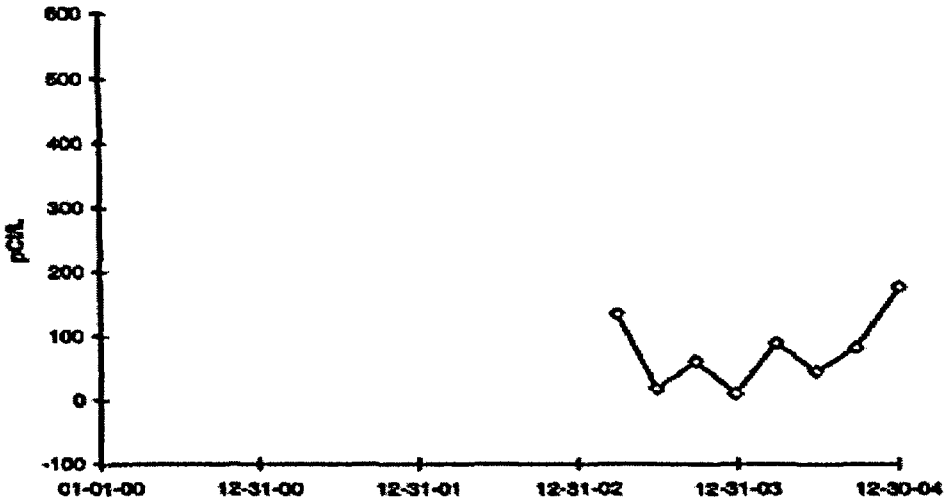
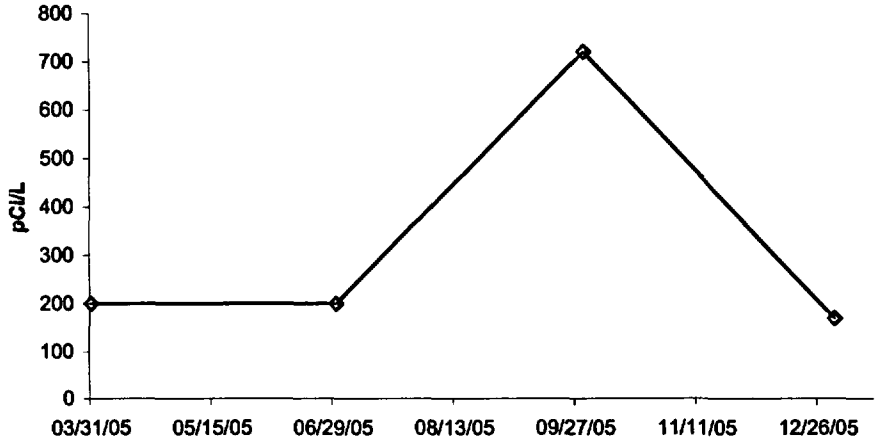


FIGURE C-4 (cont.)
SURFACE WATER - TRITIUM - STATION D-54 (C)
COLLECTED IN THE VICINITY OF DNPS, 2005

D-54 (C) Kankakee River

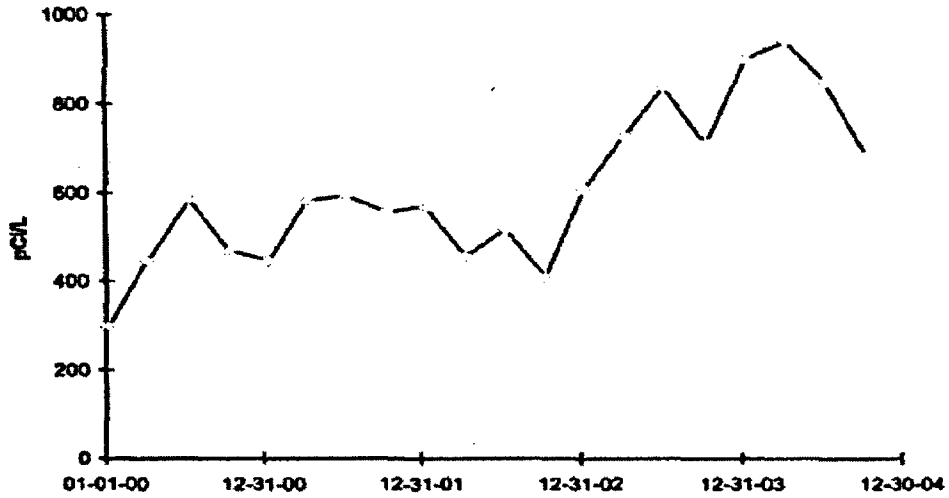


Location shared with Braidwood Station (BD-10).

DUE TO VENDOR CHANGE, < VALUES ARE LLD VALUES JANUARY THROUGH JUNE AND MDC VALUES JULY THROUGH DECEMBER

FIGURE C-5
GROUND WATER - TRITIUM - STATIONS D-23 and D-35 COLLECTED IN THE VICINITY OF DNPS, 2000 - 2004

D-23 Thorsen



D-35 Dresden Lock and Dam

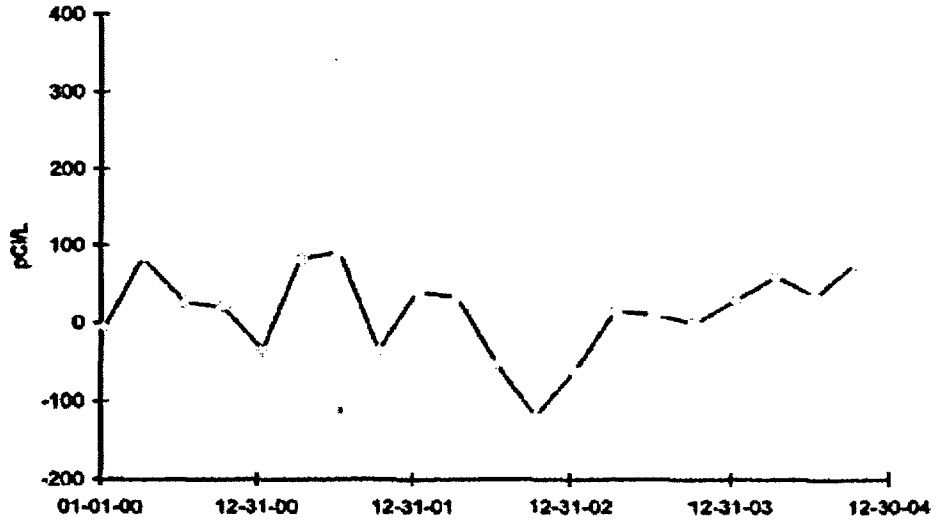
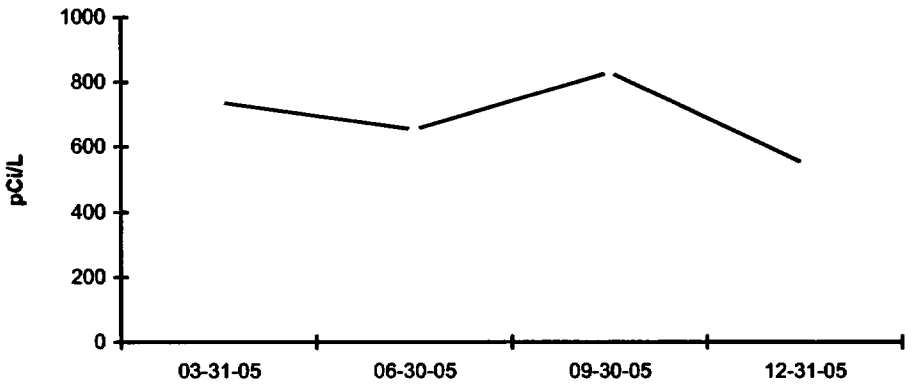
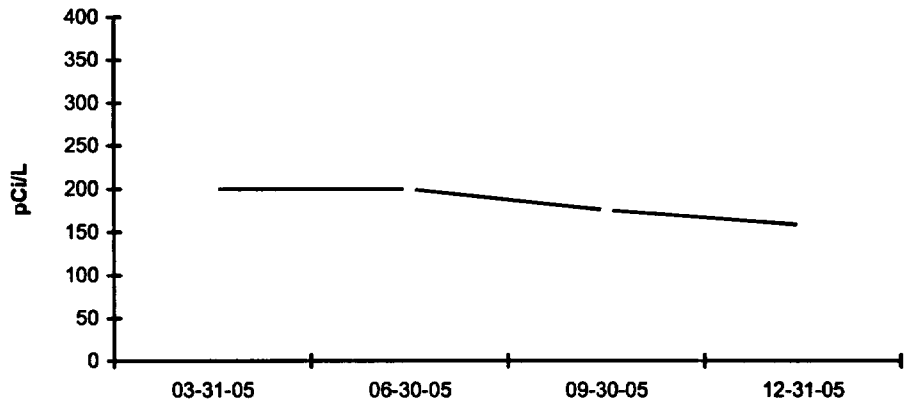


FIGURE C-5 (cont.)
GROUND WATER - TRITIUM - STATIONS D-23 and D-35 COLLECTED IN THE VICINITY OF DNPS, 2005

D-23 Thorsen



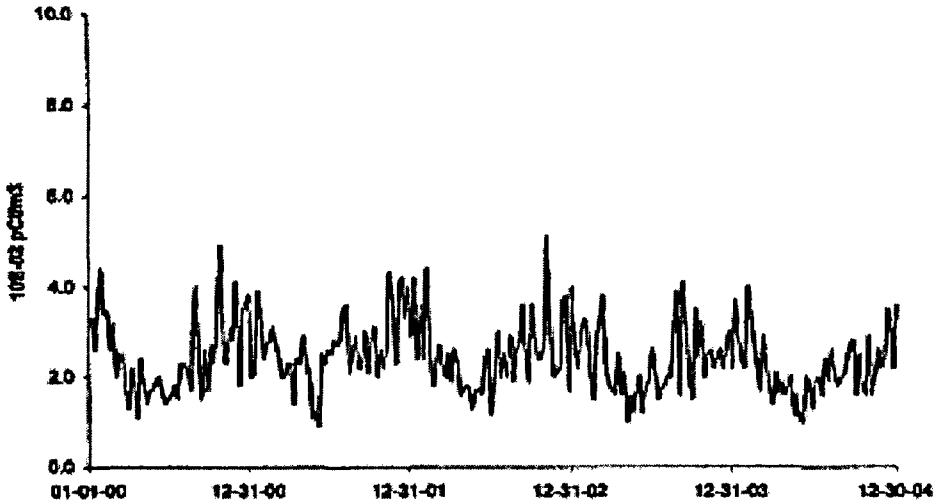
D-35 Dresden Lock and Dam



DUE TO VENDOR CHANGE, < VALUES ARE LLD VALUES JANUARY THROUGH JUNE AND MDC VALUES JULY THROUGH DECEMBER

FIGURE C-6
AIR PARTICULATES - GROSS BETA - STATIONS D-01 and D-02 COLLECTED IN THE VICINITY OF DNPS, 2000 - 2004

D-01 Onsite Station 1



D-02 Onsite Station 2

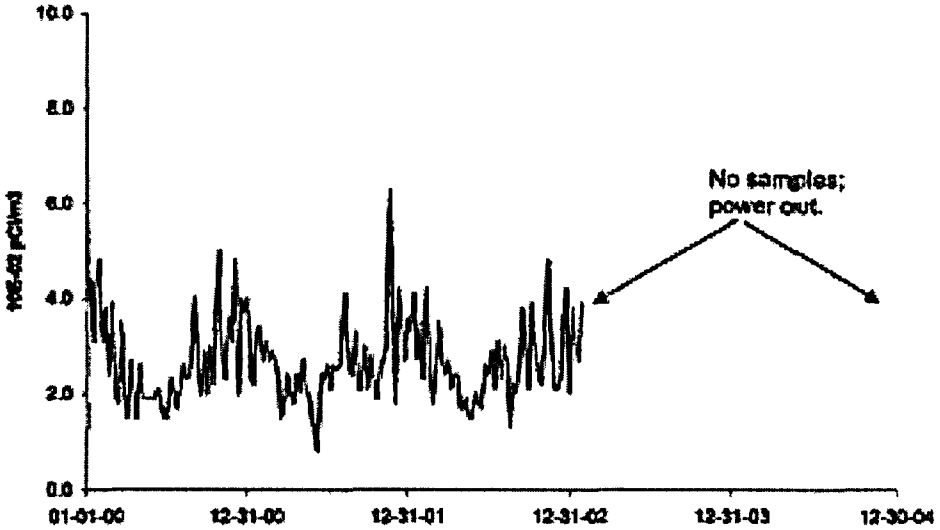
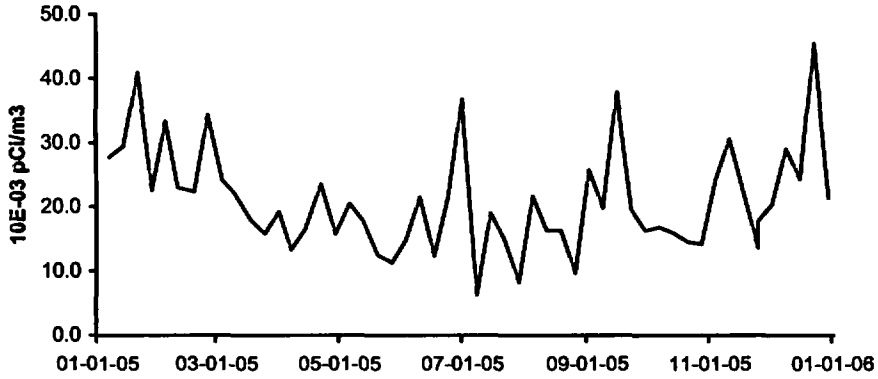
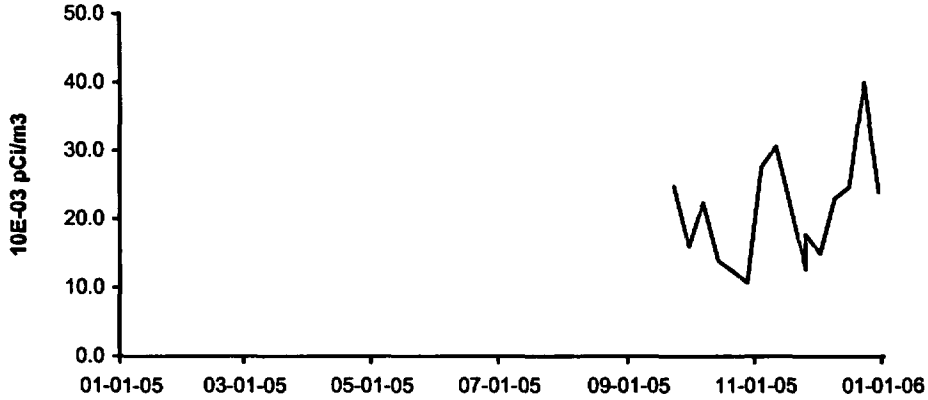


FIGURE C-6 (cont.)
AIR PARTICULATES - GROSS BETA - STATIONS D-01 and D-02 COLLECTED IN THE VICINITY OF DNPS, 2005

D-01 Onsite Station 1



D-02 Onsite Station 2

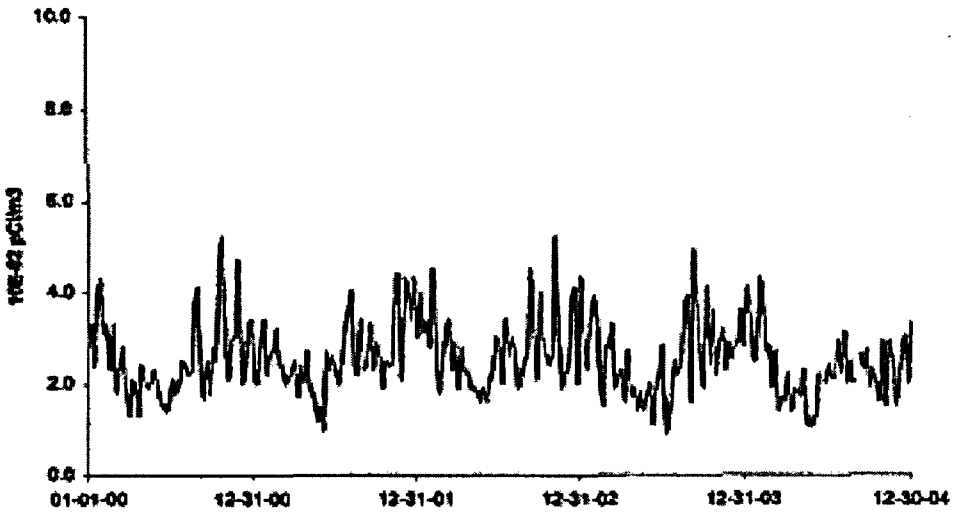


D-02 No samples; power was restored on 09-16-05.

DUE TO VENDOR CHANGE, THE REPORTED UNITS CHANGED FROM E-02 PCI/M3 TO E-03 PCI/M3

FIGURE C-7
AIR PARTICULATES - GROSS BETA - STATIONS D-03 and D-04 COLLECTED IN THE VICINITY OF DNPS, 2000 - 2004

D-03 Onsite Station 3



D-04 Collins Road

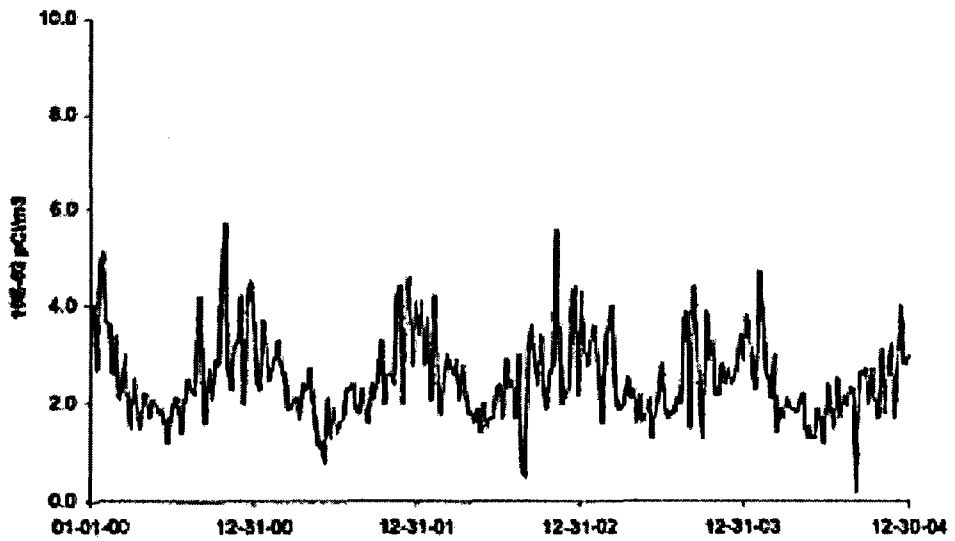
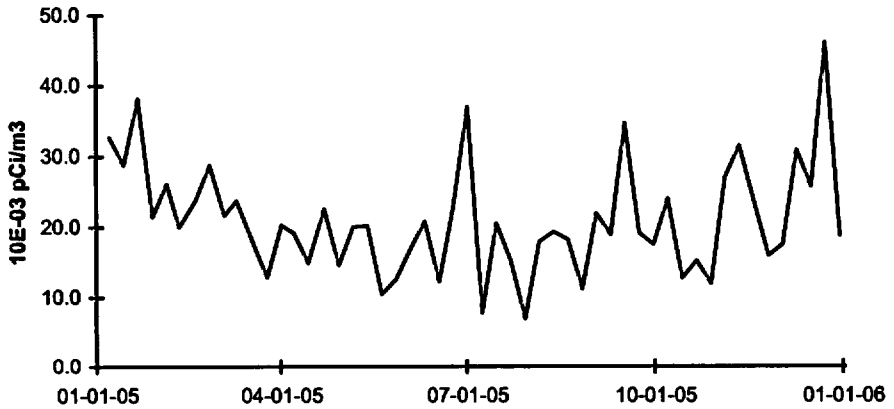
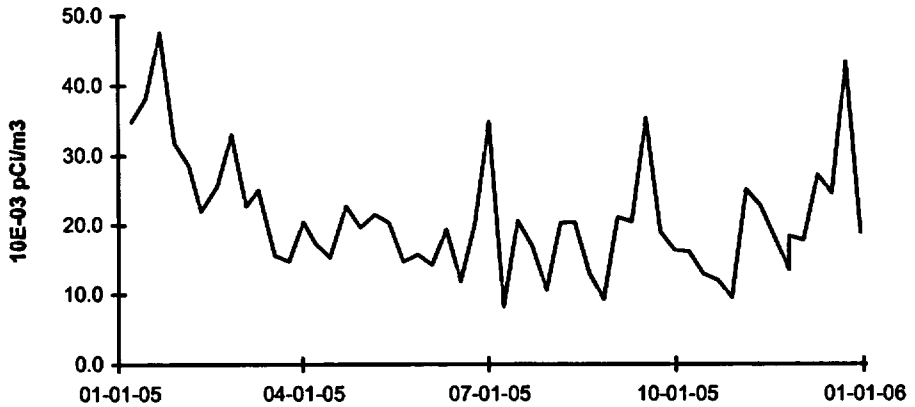


FIGURE C-7 (cont.)
AIR PARTICULATES - GROSS BETA - STATIONS D-03 and D-04 COLLECTED IN THE VICINITY OF DNPS, 2005

D-03 Onsite Station 3



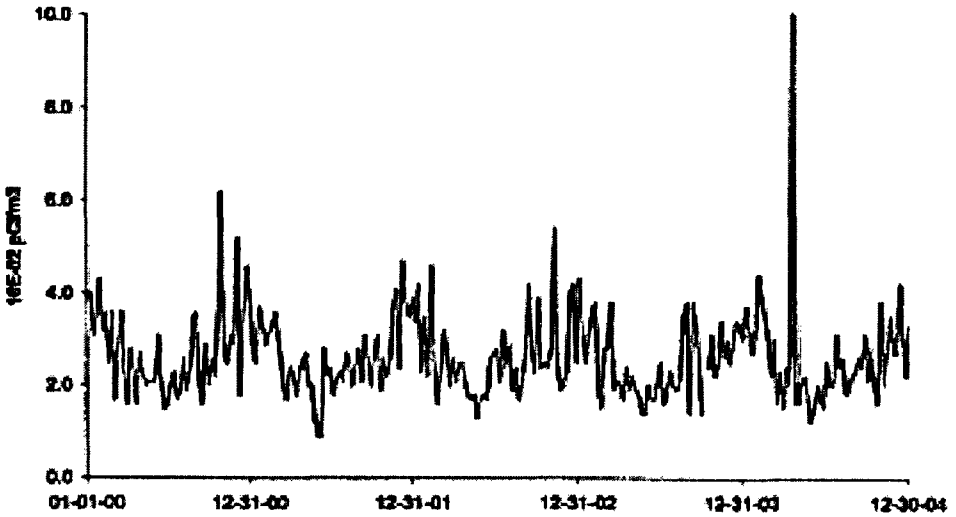
D-04 Collins Road



DUE TO VENDOR CHANGE, THE REPORTED UNITS CHANGED FROM E-02 PCI/M3 TO E-03 PCI/M3

FIGURE C-8
AIR PARTICULATES - GROSS BETA - STATIONS D-07 and D-12 (C) COLLECTED IN THE VICINITY OF DNPS, 2000 - 2004

D-07 Clay Products



D-12 (C) Lisbon

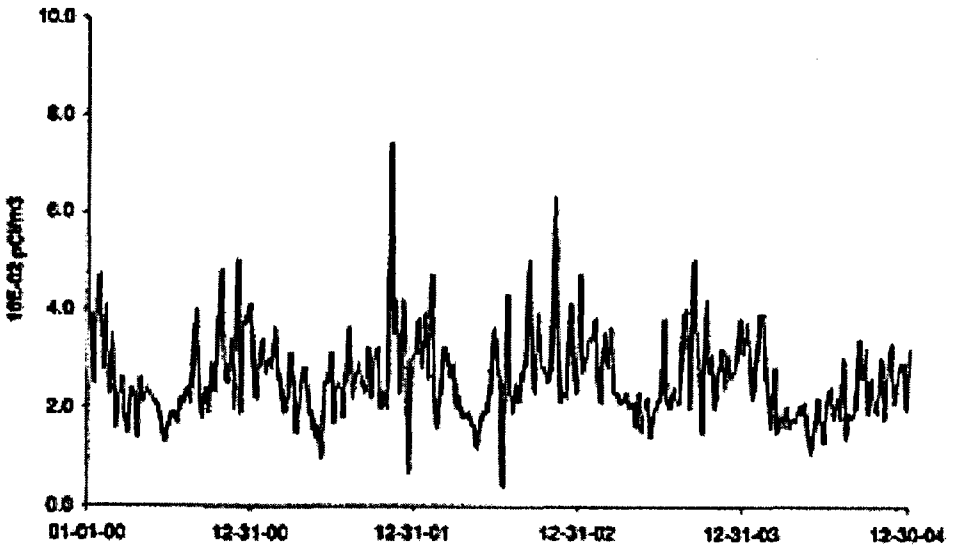
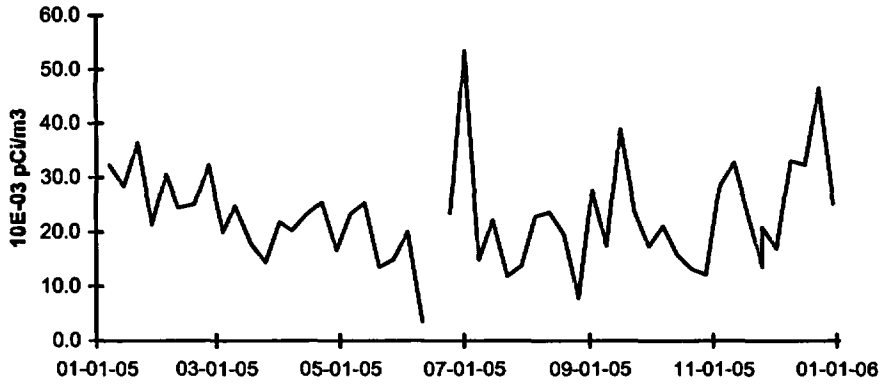


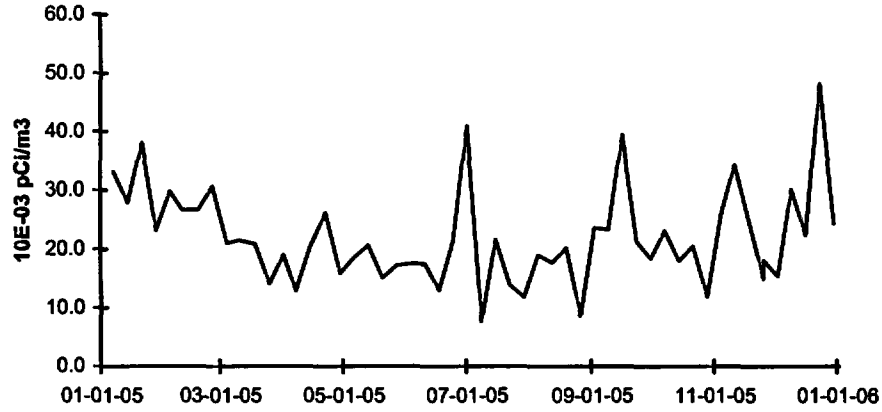
FIGURE C-8 (cont.)
AIR PARTICULATES - GROSS BETA - STATIONS D-07 and D-12 (C) COLLECTED IN THE VICINITY OF DNPS, 2005

D-07 Clay Products



06/10/05 - 06/17/05 no sample due to pump malfunction

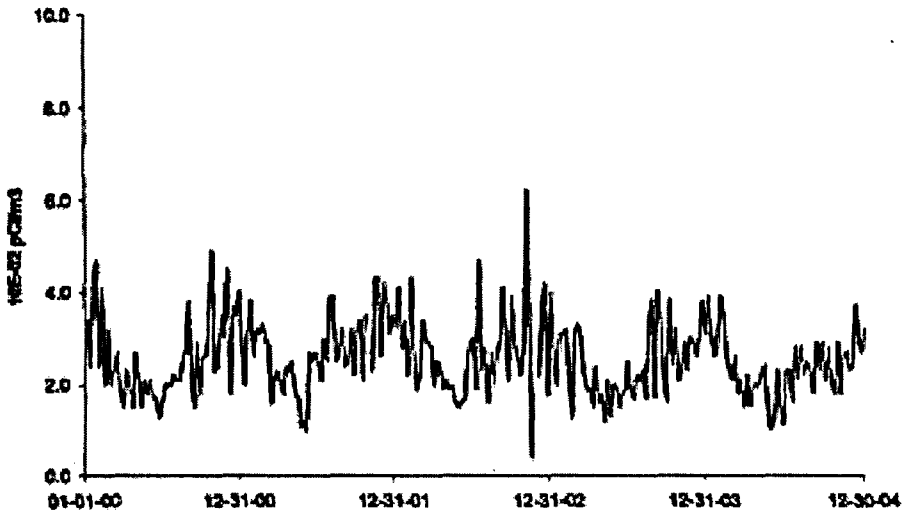
D-12 (C) Lisbon



DUE TO VENDOR CHANGE, THE REPORTED UNITS CHANGED FROM E-02 PCI/M3 TO E-03 PCI/M3

FIGURE C-9
AIR PARTICULATES - GROSS BETA - STATIONS D-45 and D-53 COLLECTED IN THE VICINITY OF DNPS, 2000 - 2004

D-45 McKinley Woods Road



D-53 Grundy County Road

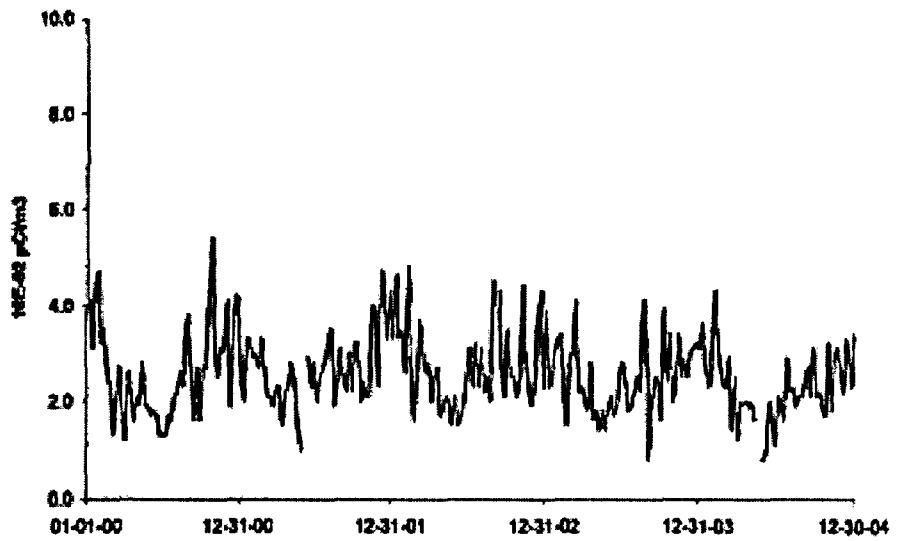
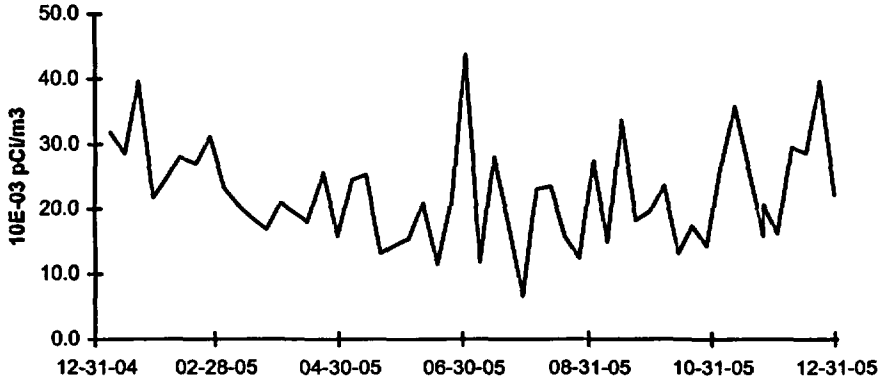
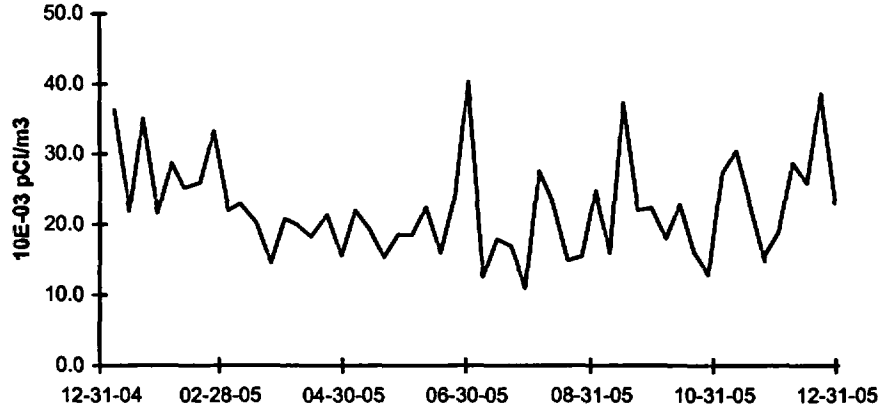


FIGURE C-9 (cont.)
AIR PARTICULATES - GROSS BETA - STATIONS D-45 and D-53 COLLECTED IN THE VICINITY OF DNPS, 2005

D-45 McKinley Woods Road



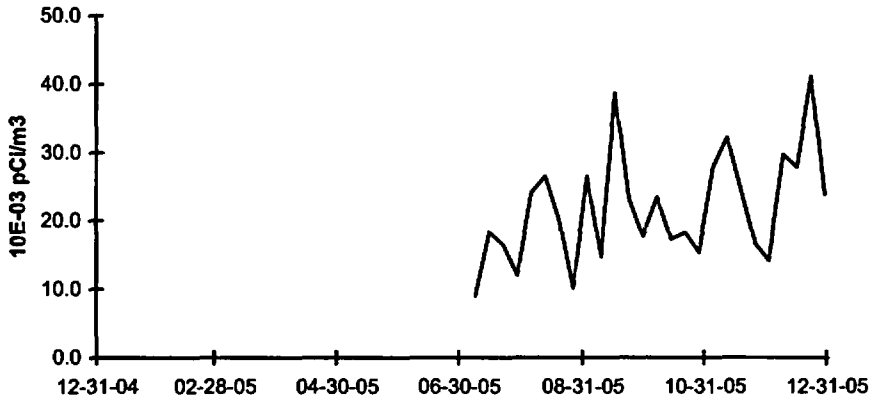
D-53 Grundy County Road



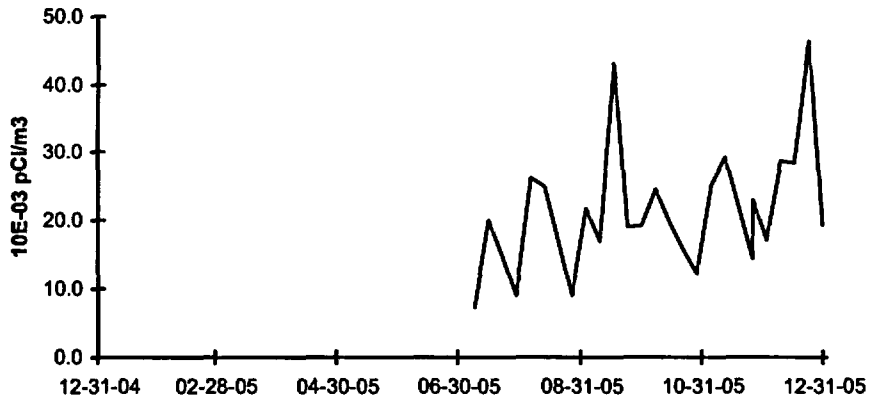
DUE TO VENDOR CHANGE, THE REPORTED UNITS CHANGED FROM E-02 PCI/M3 TO E-03 PCI/M3

FIGURE C-10
AIR PARTICULATES - GROSS BETA - STATIONS D-08 and D-10 COLLECTED IN THE VICINITY OF DNPS, 2005

D-08 Prairie Park



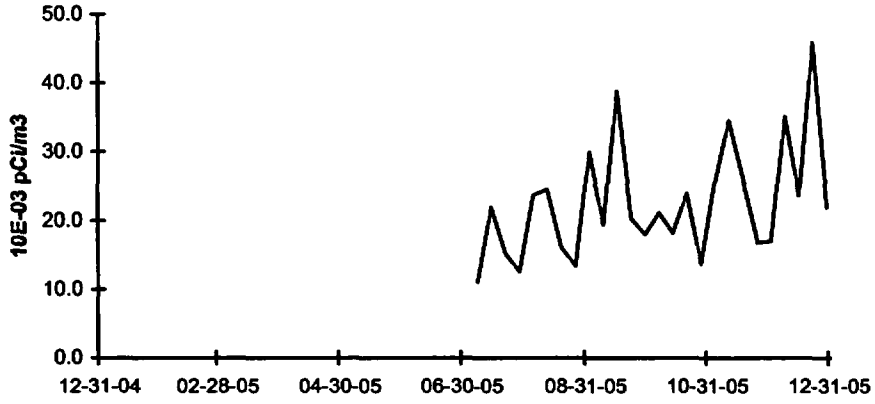
D-10 Goose Lake Village



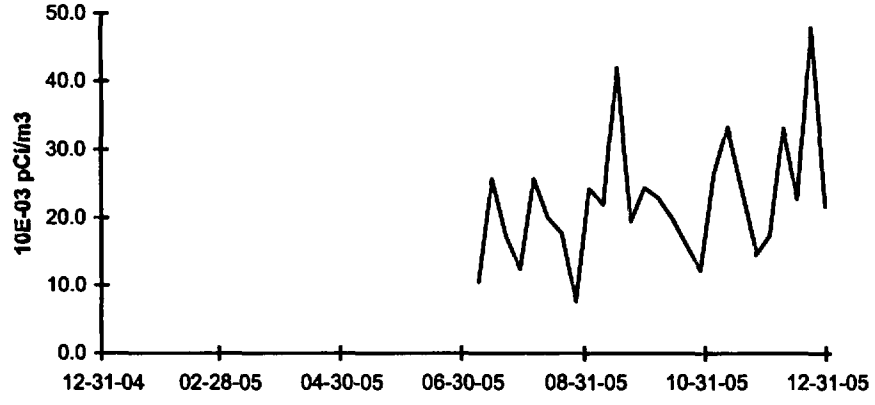
DUE TO VENDOR CHANGE, THE REPORTED UNITS CHANGED FROM E-02 PCI/M3 TO E-03 PCI/M3
AIR PARTICULATE GROSS BETA ANALYSES OF FAR FIELD LOCATIONS STARTED IN JULY 2005

FIGURE C-11
AIR PARTICULATES - GROSS BETA - STATIONS D-13 and D-14 COLLECTED IN THE VICINITY OF DNPS, 2005

D-13 Minooka



D-14 Channahon



DUE TO VENDOR CHANGE, THE REPORTED UNITS CHANGED FROM E-02 PCI/M3 TO E-03 PCI/M3
AIR PARTICULATE GROSS BETA ANALYSES OF FAR FIELD LOCATIONS STARTED IN JULY 2005

APPENDIX D

INTER-LABORATORY COMPARISON PROGRAM

TABLE D-1 ANALYTICS ENVIRONMENTAL RADIOACTIVITY CROSS CHECK PROGRAM
TELEDYNE BROWN ENGINEERING, 2005
(PAGE 1 OF 3)

Month/Year	Identification Number	Matrix	Nuclide	Units	Reported Value (a)	Known Value (b)	Ratio (c) TBE/Analytics	Evaluation (d)
March 2005	E4522-396	Milk	Sr-89	pCi/L	96.9	107	0.91	A
			Sr-90	pCi/L	16.9	17.9	0.94	A
	E4523-396	Milk	I-131	pCi/L	82.7	92.3	0.90	A
			Ce-141	pCi/L	217	229	0.95	A
			Cr-51	pCi/L	314	334	0.94	A
			Cs-134	pCi/L	123	139	0.89	A
			Cs-137	pCi/L	125	130	0.96	A
			Co-58	pCi/L	110	115	0.96	A
			Mn-54	pCi/L	158	160	0.99	A
			Fe-59	pCi/L	118	111	1.06	A
			Zn-65	pCi/L	191	198	0.96	A
			Co-60	pCi/L	140	144	0.97	A
	E4525-396	AP	Ce-141	pCi	150	172	0.87	A
			Cr-51	pCi	278	250	1.11	A
			Cs-134	pCi	105	104	1.01	A
			Cs-137	pCi	95.6	97.1	0.98	A
			Co-58	pCi	84.4	86.3	0.98	A
			Mn-54	pCi	112	120	0.93	A
			Fe-59	pCi	92.8	83.2	1.12	A
			Zn-65	pCi	162	148	1.09	A
			Co-60	pCi	102	108	0.94	A
	E4524-396	Charcoal	I-131	pCi	67.4	60.7	1.11	A
June 2005	E4630-396	Milk	Sr-89	pCi/L	89.4	88.1	1.01	A
			Sr-90	pCi/L	11.6	11.4	1.02	A
	E4631-396	Milk	I-131	pCi/L	82.3	86.9	0.95	A
			Ce-141	pCi/L	91.6	92.4	0.99	A
			Cr-51	pCi/L	278	303	0.92	A
			Cs-134	pCi/L	81.1	95.0	0.85	A
			Cs-137	pCi/L	180	189	0.95	A
			Mn-54	pCi/L	124	125	0.99	A
			Fe-59	pCi/L	61.1	63.9	0.96	A
			Zn-65	pCi/L	156	155	1.01	A
			Co-60	pCi/L	136	145	0.94	A
	E4633-396	AP	Ce-141	pCi	79.2	64.2	1.23	W
			Cr-51	pCi	263	210	1.25	W
			Cs-134	pCi	69.7	66.1	1.05	A
			Cs-137	pCi	135	131	1.03	A
			Mn-54	pCi	94.9	87.0	1.09	A
			Fe-59	pCi	48	44.4	1.09	A
			Zn-65	pCi	120	108	1.11	A
			Co-60	pCi	104	101	1.03	A
	E4632-396	Charcoal	I-131	pCi	88.9	92.5	0.96	A

TABLE D-1 ANALYTICS ENVIRONMENTAL RADIOACTIVITY CROSS CHECK PROGRAM
TELEDYNE BROWN ENGINEERING, 2005
(PAGE 2 OF 3)

Month/Year	Identification Number	Matrix	Nuclide	Units	Reported Value (a)	Known Value (b)	Ratio (c) TBE/Analytics	Evaluation (d)
September 2005	E4766-396	Milk	Sr-89	pCi/L	135.0	146.0	0.92	A
			Sr-90	pCi/L	9.7	11.5	0.84	A
	E4767-396	Milk	I-131	pCi/L	87.5	94.3	0.93	A
			Ce-141	pCi/L	203	233	0.87	A
			Cr-51	pCi/L	279	338	0.83	A
			Cs-134	pCi/L	102	122.0	0.84	A
			Cs-137	pCi/L	178	195	0.91	A
			Co-58	pCi/L	55.3	63.4	0.87	A
			Mn-54	pCi/L	81.8	92.0	0.89	A
			Fe-59	pCi/L	59.9	61.0	0.98	A
			Zn-65	pCi/L	120	123	0.98	A
			Co-60	pCi/L	146	167	0.87	A
	E4769-396	AP	Ce-141	pCi	193	169	1.14	A
			Cr-51	pCi	267	246	1.09	A
			Cs-134	pCi	78.4	88.8	0.88	A
			Cs-137	pCi	166	142	1.17	A
			Co-58	pCi	53.7	46.0	1.17	A
			Mn-54	pCi	81.6	66.8	1.22	W
			Fe-59	pCi	59.6	44.3	1.35	N (1)
			Zn-65	pCi	107	89.6	1.19	A
			Co-60	pCi	133	122	1.09	A
	E4768-396	Charcoal	I-131	pCi	63.9	64.2	1.00	A
December 2005	E4766-396	Milk	Sr-89	pCi/L	114	128	0.89	A
			Sr-90	pCi/L	11.6	10.3	1.13	A
	E4767-396	Milk	I-131	pCi/L	79.6	74.6	1.07	A
			Ce-141	pCi/L	202	224	0.90	A
			Cr-51	pCi/L	185	193	0.96	A
			Cs-134	pCi/L	74.9	87.3	0.86	A
			Cs-137	pCi/L	177	189	0.94	A
			Co-58	pCi/L	73.9	77.5	0.95	A
			Mn-54	pCi/L	152	152	1.00	A
			Fe-59	pCi/L	97.5	82.4	1.18	A
			Zn-65	pCi/L	161	154	1.05	A
			Co-60	pCi/L	102	111	0.92	A
	E4633-396	AP	Ce-141	pCi	221	201	1.10	A
			Cr-51	pCi	195	173	1.13	A
			Cs-134	pCi	68.4	78.3	0.87	A
			Cs-137	pCi	194	170	1.14	A
			Co-58	pCi	77.4	69.4	1.12	A
			Mn-54	pCi	171	137	1.25	W
			Fe-59	pCi	94.2	73.9	1.27	W
			Zn-65	pCi	173	138	1.25	W
			Co-60	pCi	109	99.1	1.10	A

TABLE D-1 **ANALYTICS ENVIRONMENTAL RADIOACTIVITY CROSS CHECK PROGRAM**
TELEDYNE BROWN ENGINEERING, 2005
(PAGE 3 OF 3)

Month/Year	Identification Number	Matrix	Nuclide	Units	Reported Value (a)	Known Value (b)	Ratio (c) TBE/Analytics	Evaluation (d)
December 2005	E4632-396	Charcoal	I-131	pCi	73.3	73.3	1.00	A

(1) New technician - AP not counted in petri dish resulted in high Fe-59 activity. Counting in petri dish, the Fe-59 would have been acceptable as evidenced by the 4Q05 AP recount data. NCR 06-01

(a) Teledyne Brown Engineering reported result.

(b) The Analytics known value is equal to 100% of the parameter present in the standard as determined by gravimetric and/or volumetric measurements made during standard preparation.

(c) Ratio of Teledyne Brown Engineering to Analytics results.

(d) Analytics evaluation based on TBE internal QC limits: A= Acceptable. Reported result falls within ratio limits of 0.80-1.20. W-Acceptable with warning. Reported result falls within 0.70-0.80 or 1.20-1.30. N = Not Acceptable. Reported result falls outside the ratio limits of < 0.70 and > 1.30.

TABLE D-2 **ERA ENVIRONMENTAL RADIOACTIVITY CROSS CHECK PROGRAM**
TELEDYNE BROWN ENGINEERING, 2005
(PAGE 1 OF 1)

Month/Year	Identification Number	Media	Nuclide	Units	Reported Value (a)	Known Value (b)	Control Limits	Evaluation (c)
May 2005	Rad 61	Water	Sr-89	pCi/L	37.5	41.3	32.6 - 50.0	A
			Sr-90	pCi/L	5.37	5.92	0.00 - 14.6	A
			Ba-133	pCi/L	88.6	88.4	73.1 - 104	A
			Cs-134	pCi/L	70.5	78.6	69.9 - 87.3	A
			Cs-137	pCi/L	201	201	184 - 218	A
			Co-60	pCi/L	37.5	37.0	28.3 - 45.7	A
			Zn-65	pCi/L	122	118	97.6 - 138	A
			Gr-A	pCi/L	35.5	37.0	21.0 - 53.0	A
			Gr-B	pCi/L	35.6	34.2	25.5 - 42.9	A
			H-3	pCi/L	24600	24400	20200 - 28600	A
	Rad 61	Water	I-131	pCi/L	13.6	15.5	10.3 - 20.7	A
November 2005	Rad 63	Water	Sr-89	pCi/L	18.0	19.0	10.3 - 27.7	A
			Sr-90	pCi/L	16.6	16.0	7.37 - 24.7	A
			Ba-133	pCi/L	31.7	31.2	22.5 - 39.9	A
			Cs-134	pCi/L	30.8	33.9	25.2 - 42.6	A
			Cs-137	pCi/L	26.8	28.3	19.6 - 37.0	A
			Co-60	pCi/L	83.9	84.1	75.4 - 92.8	A
			Zn-65	pCi/L	109	105	86.8 - 123	A
			Gr-A	pCi/L	19.5	23.3	13.2 - 33.4	A
			Gr-B	pCi/L	34.0	39.1	30.4 - 47.8	A
			H-3	pCi/L	12400	12200	10100 - 14300	A
	Rad 63	Water	I-131	pCi/L	17.8	17.4	12.2 - 22.6	A

(a) Teledyne Brown Engineering reported result.
(b) The ERA known value is equal to 100% of the parameter present in the standard as determined by gravimetric and/or volumetric measurements made during standard preparation.
(c) ERA evaluation: A=acceptable. Reported result falls within the Warning Limits. NA=not acceptable. Reported result falls outside of the Control Limits. CE=check for Error. Reported result falls within the Control Limits and outside of the Warning Limit.

TABLE D-3 DOE'S MIXED ANALYTE PERFORMANCE EVALUATION PROGRAM (MAPEP)
TELEDYNE BROWN ENGINEERING, 2005
(PAGE 1 OF 2)

Month/Year	Identification Number	Media	Nuclide	Units	Reported Value (a)	Known Value (b)	Acceptance Range	Evaluation (c)
April 2005	05-MaW13	Water	Cs-134	Bq/L	108	127	88.90 - 165.10	A
			Cs-137	Bq/L	305	332	232.40 - 461.60	A
			Co-57	Bq/L	215	227	158.90 - 295.10	A
			Co-60	Bq/L	241	251	175.70 - 326.30	A
			H-3	Bq/L	283	280	196.00 - 364.00	A
			Mn-54	Bq/L	314	331	231.70 - 430.30	A
			Sr-90	Bq/L	0.093		no range given (1)	A
			Zn-65	Bq/L	509	496	347.20 - 644.80	A
	MaS13	Soil	Cs-134	Bq/L	655	759	531.30 - 986.70	A
			Cs-137	Bq/L	310	315	220.50 - 409.50	A
			Co-57	Bq/L	234	242	169.40 - 314.60	A
			Co-60	Bq/L	219	212	148.40 - 275.60	A
			Mn-54	Bq/L	512	485	339.50 - 630.50	A
			K-40	Bq/L	642	604	422.80 - 785.20	A
			Zn-65	Bq/L	890	810	567.00 - 1053	A
	GrW13	Water	Gr-A	Bq/L	0.601	0.525	>0.0 - 1.05	A
			Gr-B	Bq/L	1.54	1.67	0.84 - 2.51	A
	RdF13	AP	Cs-134	Bq/sample	3.26	3.51	2.46 - 4.56	A
			Cs-137	Bq/sample	2.05	2.26	1.58 - 2.94	A
			Co-57	Bq/sample	4.78	4.92	3.44 - 6.40	A
			Co-60	Bq/sample	3.02	3.03	2.12 - 3.94	A
			Mn-54	Bq/sample	3.31	3.33	2.33 - 4.33	A
			Sr-90	Bq/sample	1.15	1.35	0.95 - 1.76	A
			Zn-65	Bq/sample	3.14	3.14	2.20 - 4.08	A
	GrF13	AP	Gr-A	Bq/sample	0.0764	0.232	>0.0 - 0.46	A
			Gr-B	Bq/sample	0.305	0.297	0.15 - 0.45	A
April 2005	RdV13	Vegetation	Cs-134	Bq/kg	5.45	5	3.50 - 6.50	A
			Cs-137	Bq/kg	4.80	4.1	2.88 - 5.34	A
			Co-57	Bq/kg	13.4	9.88	6.92 - 12.84	A *
			Co-60	Bq/kg	3.67	3.15	2.21 - 4.10	A
			Mn-54	Bq/kg	6.45	5.18	3.63 - 6.73	A
			Sr-90	Bq/kg	1.49	1.65	1.16 - 2.15	A
			Zn-65	Bq/kg	7.71	6.29	4.40 - 8.18	A
October 2005	05-MaW14	Water	Cs-134	Bq/L	142	167	116.90 - 217.10	A
			Cs-137	Bq/L	302	333	233.10 - 432.90	A
			Co-57	Bq/L	251	272	190.40 - 353.60	A
			Co-60	Bq/L	243	261	182.70 - 339.30	A
			H-3	Bq/L	547	527	368.90 - 685.10	A
			Mn-54	Bq/L	383	418	292.60 - 543.40	A
			Sr-90	Bq/L	8.75	8.98	6.29 - 11.67	A
			Zn-65	Bq/L	324	330	231.00 - 429.00	A

TABLE D-3 **DOE'S MIXED ANALYTE PERFORMANCE EVALUATION PROGRAM (MAPEP)**
TELEDYNE BROWN ENGINEERING, 2005
(PAGE 2 OF 2)

Month/Year	Identification Number	Media	Nuclide	Units	Reported Value (a)	Known Value (b)	Acceptance Range	Evaluation (c)
October 2005	MaS14	Soil	Cs-134	Bq/L	494	568	397.60 - 738.40	A
			Cs-137	Bq/L	446	439	307.30 - 570.70	A
			Co-57	Bq/L	506	524	366.80 - 681.20	A
			Co-60	Bq/L	289	287	200.90 - 373.10	A
			Mn-54	Bq/L	460	439	307.30 - 570.70	A
			K-40	Bq/L	626	604	422.80 - 785.20	A
			Zn-65	Bq/L	889	823	576.10 - 1070	A
	GrW14	Water	Gr-A	Bq/L	0.858	0.79	0.21 - 1.38	A
			Gr-B	Bq/L	1.22	1.35	0.85 - 1.92	A
October 2005	RdF14	AP	Cs-134	Bq/sample	4.11	3.85	2.70 - 5.01	A
			Cs-137	Bq/sample	3.16	3.23	2.26 - 4.20	A
			Co-57	Bq/sample	6.14	6.2	4.34 - 8.06	A
			Co-60	Bq/sample	2.86	2.85	2.00 - 3.71	A
			Mn-54	Bq/sample	4.54	4.37	3.06 - 5.68	A
			Sr-90	Bq/sample	2.12	2.25	1.58 - 2.93	A
			Zn-65	Bq/sample	4.28	4.33	3.03 - 5.63	A
	GrF14	AP	Gr-A	Bq/sample	0.304	0.482	>0.0 - 0.80	A
			Gr-B	Bq/sample	0.858	0.827	0.55 - 1.22	A
	RdV13	Vegetation	Cs-134	Bq/kg	4.35	4.09	2.86 - 5.32	A
			Cs-137	Bq/kg	5.99	5.4	3.80 - 7.06	A
			Co-57	Bq/kg	17.0	13.30	9.31 - 17.29	W
			Co-60	Bq/kg	4.87	4.43	3.10 - 5.76	A
			Mn-54	Bq/kg	7.40	6.57	4.60 - 8.54	A
			Sr-90	Bq/kg	2.03	2.42	1.69 - 3.15	A
			Zn-65	Bq/kg	11.8	10.2	7.14 - 13.26	A

** MAPEP reported the result as acceptable although the reported value of 13.4 is higher than the acceptance range upper limit of 12.84. The acceptance range was expanded to +- 40% bias due to confusion regarding preparation process. MAPEP did not corrected the acceptance range on the report.*

(1) The Sr-90 in water was a MAPEP false positive test. The TBE reported result of 0.093 ± 0.0908 Bq/L was the forced Sr-90 activity and uncertainty, as required by MAPEP. The MDC for the sample was 0.145 pCi/L.

(a) Teledyne Brown Engineering reported result.

(b) The MAPEP known value is equal to 100% of the parameter present in the standard as determined by gravimetric and/or volumetric measurements made during standard preparation.

(c) DOE/MAPEP evaluation: A=acceptable, W=acceptable with warning, N=not acceptable.

TABLE D-4

ERA[a] STATISTICAL SUMMARY PROFICIENCY TESTING PROGRAM
ENVIRONMENTAL, INC., 2005

(Page 1 of 2)

Lab Code	Date	Analysis	Concentration (pCi/L) Laboratory Result[b]	ERA Result[c]	Control Limits	Acceptance
STW-1051	02/15/05	Sr-89	28.0 ± 1.2	29.4	20.7 - 38.1	Pass
STW-1051	02/15/05	Sr-90	25.1 ± 0.7	24.4	15.7 - 33.1	Pass
STW-1052	02/15/05	Ba-133	52.9 ± 2.8	53.4	44.2 - 62.6	Pass
STW-1052	02/15/05	Co-60	54.4 ± 0.4	56.6	47.9 - 65.3	Pass
STW-1052	02/15/05	Cs-134	67.7 ± 1.8	64.9	56.2 - 73.6	Pass
STW-1052	02/15/05	Cs-137	39.6 ± 1.8	40.2	31.5 - 48.9	Pass
STW-1052	02/15/05	Zn-65	159.7 ± 3.0	161.0	133.0 - 189.0	Pass
STW-1053	02/15/05	Gr. Alpha	55.1 ± 1.8	67.9	38.5 - 97.3	Pass
STW-1053	02/15/05	Gr. Beta	46.8 ± 1.3	51.1	38.5 - 97.3	Pass
STW-1054	02/15/05	Ra-226	13.7 ± 1.5	14.1	10.4 - 17.8	Pass
STW-1054	02/15/05	Ra-228	13.3 ± 0.6	13.7	7.8 - 19.6	Pass
STW-1054	02/15/05	Uranium	5.1 ± 0.2	5.0	0.0 - 10.2	Pass
STW-1055	05/17/05	Sr-89	45.1 ± 4.1	41.3	32.6 - 50.0	Pass
STW-1055	05/17/05	Sr-90	7.5 ± 0.9	5.9	0.0 - 14.6	Pass
STW-1056	05/17/05	Ba-133	87.1 ± 2.0	88.4	73.1 - 104.0	Pass
STW-1056	05/17/05	Co-60	38.4 ± 0.8	37.0	28.3 - 45.7	Pass
STW-1056	05/17/05	Cs-134	75.3 ± 0.7	78.6	69.9 - 87.3	Pass
STW-1056	05/17/05	Cs-137	201.0 ± 8.4	194.0	184.0 - 218.0	Pass
STW-1056	05/17/05	Zn-65	130.0 ± 6.7	118.0	97.6 - 138.0	Pass
STW-1057	05/17/05	Gr. Alpha	42.7 ± 2.9	37.0	21.0 - 53.0	Pass
STW-1057	05/17/05	Gr. Beta	34.0 ± 0.4	34.2	25.5 - 42.9	Pass
STW-1058	05/17/05	I-131	14.7 ± 0.5	15.5	10.3 - 20.7	Pass
STW-1059	05/17/05	Ra-226	6.6 ± 0.1	7.6	5.6 - 9.5	Pass
STW-1059	05/17/05	Ra-228	19.3 ± 0.7	18.9	10.7 - 27.1	Pass
STW-1059	05/17/05	Uranium	9.6 ± 0.1	10.1	4.9 - 15.3	Pass
STW-1060	05/17/05	H-3	24100.0 ± 109.0	24400.0	20200.0 - 28600.0	Pass
STW-1067	08/16/05	Sr-89	29.1 ± 3.0	28.0	19.3 - 36.7	Pass
STW-1067	08/16/05	Sr-90	36.0 ± 0.6	33.8	25.1 - 42.5	Pass
STW-1068	08/16/05	Ba-133	107.0 ± 1.7	106.0	87.7 - 124.0	Pass
STW-1068	08/16/05	Co-60	15.2 ± 0.2	13.5	4.8 - 22.2	Pass
STW-1068	08/16/05	Cs-134	89.1 ± 0.3	92.1	83.4 - 101.0	Pass
STW-1068	08/16/05	Cs-137	72.1 ± 1.0	72.7	64.0 - 81.4	Pass
STW-1068	08/16/05	Zn-65	67.4 ± 1.4	65.7	54.3 - 77.1	Pass
STW-1069	08/16/05	Gr. Alpha	44.3 ± 1.5	55.7	31.6 - 79.8	Pass
STW-1069	08/16/05	Gr. Beta	58.4 ± 2.1	61.3	44.0 - 78.6	Pass
STW-1070	08/16/05	Ra-226	16.6 ± 1.5	16.6	12.3 - 20.9	Pass
STW-1070	08/16/05	Ra-228	6.2 ± 0.3	6.2	3.5 - 8.9	Pass
STW-1070	08/16/05	Uranium	4.5 ± 0.1	4.5	0.0 - 9.7	Pass

TABLE D-4 **ERA[a] STATISTICAL SUMMARY PROFICIENCY TESTING PROGRAM**
ENVIRONMENTAL, INC., 2005
(Page 1 of 2)

Lab Code	Date	Analysis	Concentration (pCi/L) Laboratory Result[b]	ERA Result[c]	Control Limits	Acceptance
STW-1072	11/15/05	Sr-89	20.6 ± 0.4	19.0	10.3 - 27.7	Pass
STW-1072	11/15/05	Sr-90	15.0 ± 0.3	16.0	7.3 - 24.7	Pass
STW-1073	11/15/05	Ba-133	31.8 ± 1.8	31.2	22.5 - 39.9	Pass
STW-1073	11/15/05	Co-60	85.0 ± 1.4	84.1	75.4 - 92.8	Pass
STW-1073	11/15/05	Cs-134	37.2 ± 2.1	33.9	25.2 - 42.6	Pass
STW-1073	11/15/05	Cs-137	27.8 ± 0.7	28.3	19.6 - 37.0	Pass
STW-1073	11/15/05	Zn-65	109.0 ± 1.0	105.0	86.8 - 123.0	Pass
STW-1074 [d]	11/15/05	Gr. Alpha	41.1 ± 1.2	23.3	13.2 - 33.4	Fail
STW-1074	11/15/05	Gr. Beta	42.7 ± 0.5	39.1	30.4 - 47.8	Pass
STW-1075	11/15/05	I-131	20.5 ± 0.6	17.4	12.2 - 22.6	Pass
STW-1076	11/15/05	Ra-226	7.8 ± 0.6	8.3	6.2 - 10.5	Pass
STW-1076 [e]	11/15/05	Ra-228	5.5 ± 0.6	3.5	2.0 - 5.0	Fail
STW-1076	11/15/05	Uranium	15.5 ± 0.3	16.1	10.9 - 21.3	Pass
STW-1077	11/15/05	H-3	12500.0 ± 238.0	12200.0	10100.0 - 14300.0	Pass

[a] Results obtained by Environmental, Inc., Midwest Laboratory as a participant in the crosscheck program for proficiency testing in drinking water conducted by Environmental Resources Associates (ERA).

[b] Unless otherwise indicated, the laboratory result is given as the mean ± standard deviation for three determinations.

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

[d] The original samples were calculated using an Am-241 efficiency. The samples were spiked with Th-232. Samples were recounted and calculated using the Th-232 efficiency. Results of the recount: 27.01 ± 2.35 pCi/L.

[e] Decay of short-lived radium daughters contributed to a higher counting rate. Delay of counting for 100 minutes provided better results. The reported result was the average of the first cycle of 100 minutes, the average of the second cycle counts was 4.01 pCi/L

TABLE D-5 DOE'S MIXED ANALYTE PERFORMANCE EVALUATION PROGRAM (MAPEP)[a] ENVIRONMENTAL, INC., 2005

(Page 1 of 3)

			Concentration [b]			
Lab Code[c]	Date	Analysis	Laboratory result	Known Activity	Control Limits [a]	Acceptance
STW-1045	01/01/05	Gr. Alpha	0.45 ± 0.10	0.53	0.00 - 1.05	Pass
STW-1045	01/01/05	Gr. Beta	1.90 ± 0.10	1.67	0.84 - 2.51	Pass
STW-1046	01/01/05	Am-241	1.62 ± 0.12	1.72	1.20 - 2.24	Pass
STW-1046	01/01/05	Co-57	239.40 ± 1.20	227.00	158.90 - 295.10	Pass
STW-1046	01/01/05	Co-60	248.70 ± 1.00	251.00	175.70 - 326.30	Pass
STW-1046	01/01/05	Cs-134	115.50 ± 1.80	127.00	88.90 - 165.10	Pass
STW-1046	01/01/05	Cs-137	328.50 ± 1.70	332.00	232.40 - 431.60	Pass
STW-1046	01/01/05	Fe-55	64.90 ± 7.00	75.90	53.13 - 98.67	Pass
STW-1046	01/01/05	H-3	304.00 ± 9.70	280.00	196.00 - 364.00	Pass
STW-1046	01/01/05	Mn-54	334.80 ± 1.90	331.00	231.70 - 430.30	Pass
STW-1046	01/01/05	Ni-63	7.10 ± 1.60	9.00	0.00 - 20.00	Pass
STW-1046	01/01/05	Pu-238	0.01 ± 0.02	0.02	0.00 - 1.00	Pass
STW-1046	01/01/05	Pu-239/40	2.50 ± 0.14	2.40	1.68 - 3.12	Pass
STW-1046	01/01/05	Sr-90	0.70 ± 0.80	0.00	0.00 - 5.00	Pass
STW-1046	01/01/05	Tc-99	43.20 ± 1.40	42.90	30.03 - 55.77	Pass
STW-1046	01/01/05	U-233/4	3.31 ± 0.20	3.24	2.27 - 4.21	Pass
STW-1046	01/01/05	U-238	3.38 ± 0.20	3.33	2.33 - 4.33	Pass
STW-1046	01/01/05	Zn-65	538.40 ± 3.80	496.00	347.20 - 644.80	Pass
STVE-1047	01/01/05	Co-57	10.60 ± 0.20	9.88	6.92 - 12.84	Pass
STVE-1047	01/01/05	Co-60	3.00 ± 0.20	3.15	2.21 - 4.10	Pass
STVE-1047	01/01/05	Cs-134	4.80 ± 0.40	5.00	3.50 - 6.50	Pass
STVE-1047	01/01/05	Cs-137	4.10 ± 0.30	4.11	2.88 - 5.34	Pass
STVE-1047	01/01/05	Mn-54	5.10 ± 0.30	5.18	3.63 - 6.73	Pass
STVE-1047	01/01/05	Zn-65	6.20 ± 0.50	6.29	4.40 - 8.18	Pass
STSO-1048	01/01/05	Am-241	96.60 ± 10.00	109.00	76.30 - 141.70	Pass
STSO-1048	01/01/05	Co-57	264.00 ± 2.00	242.00	169.40 - 314.60	Pass
STSO-1048	01/01/05	Co-60	226.50 ± 2.20	212.00	148.40 - 275.60	Pass
STSO-1048	01/01/05	Cs-134	760.60 ± 3.70	759.00	531.30 - 986.70	Pass
STSO-1048	01/01/05	Cs-137	336.20 ± 3.60	315.00	220.50 - 409.50	Pass
STSO-1048	01/01/05	K-40	663.70 ± 18.00	604.00	422.80 - 785.20	Pass
STSO-1048	01/01/05	Mn-54	541.30 ± 3.90	485.00	339.50 - 630.50	Pass
STSO-1048	01/01/05	Ni-63	924.30 ± 17.20	1220.00	854.00 - 1586.00	Pass
STSO-1048	01/01/05	Pu-238	0.60 ± 0.80	0.48	0.00 - 1.00	Pass
STSO-1048	01/01/05	Pu-239/40	78.00 ± 4.80	89.50	62.65 - 116.35	Pass
STSO-1048	01/01/05	Sr-90	514.60 ± 18.70	640.00	448.00 - 832.00	Pass
STSO-1048	01/01/05	U-233/4	47.90 ± 4.00	62.50	43.75 - 81.25	Pass
STSO-1048	01/01/05	U-238	226.30 ± 8.60	249.00	174.30 - 323.70	Pass
STSO-1048	01/01/05	Zn-65	851.30 ± 7.30	810.00	567.00 - 1053.00	Pass
STAP-1050	01/01/05	Gr. Alpha	0.11 ± 0.03	0.23	0.00 - 0.46	Pass
STAP-1050	01/01/05	Gr. Beta	0.38 ± 0.05	0.30	0.15 - 0.45	Pass

TABLE D-5 DOE'S MIXED ANALYTE PERFORMANCE EVALUATION PROGRAM (MAPEP)[a]
ENVIRONMENTAL, INC., 2005

(Page 2 of 3)

			Concentration [b]			
Lab Code[c]	Date	Analysis	Laboratory result	Known Activity	Control Limits [d]	Acceptance
STAP-1049	01/01/05	Am-241	0.10 ± 0.04	0.10	0.07 - 0.13	Pass
STAP-1049	01/01/05	Co-57	4.76 ± 0.64	4.92	3.44 - 6.40	Pass
STAP-1049	01/01/05	Co-60	2.84 ± 0.22	3.03	2.12 - 3.94	Pass
STAP-1049	01/01/05	Cs-134	3.54 ± 0.37	3.51	2.46 - 4.56	Pass
STAP-1049	01/01/05	Cs-137	2.20 ± 0.27	2.26	1.58 - 2.94	Pass
STAP-1049	01/01/05	Mn-54	3.15 ± 0.21	3.33	2.33 - 4.33	Pass
STAP-1049	01/01/05	Pu-238	0.16 ± 0.04	0.20	0.14 - 0.25	Pass
STAP-1049	01/01/05	Pu-239/40	0.17 ± 0.02	0.17	0.14 - 0.25	Pass
STAP-1049[e]	01/01/05	Sr-90	2.24 ± 0.34	1.35	0.95 - 1.76	Fail
STAP-1049	01/01/05	U-233/4	0.34 ± 0.02	0.34	0.24 - 0.44	Pass
STAP-1049	01/01/05	U-238	0.35 ± 0.02	0.35	0.25 - 0.46	Pass
STAP-1049	01/01/05	Zn-65	3.12 ± 0.15	3.14	2.20 - 4.08	Pass
STW-1061	07/01/05	Am-241	2.21 ± 0.13	2.23	1.56 - 2.90	Pass
STW-1061	07/01/05	Co-57	293.20 ± 7.30	272.00	190.40 - 353.60	Pass
STW-1061	07/01/05	Co-60	275.70 ± 1.30	261.00	182.70 - 339.30	Pass
STW-1061	07/01/05	Cs-134	171.80 ± 4.00	167.00	116.90 - 217.10	Pass
STW-1061	07/01/05	Cs-137	342.10 ± 2.20	333.00	233.10 - 432.90	Pass
STW-1061	07/01/05	Fe-55	167.80 ± 9.30	196.00	137.20 - 254.80	Pass
STW-1061	07/01/05	H-3	514.20 ± 12.60	527.00	368.90 - 685.10	Pass
STW-1061	07/01/05	Mn-54	437.00 ± 2.50	418.00	292.60 - 543.40	Pass
STW-1061	07/01/05	Ni-63	105.10 ± 3.60	100.00	70.00 - 130.00	Pass
STW-1061	07/01/05	Pu-238	1.64 ± 0.12	1.91	1.34 - 2.48	Pass
STW-1061	07/01/05	Pu-239/40	2.32 ± 0.13	2.75	1.93 - 3.58	Pass
STW-1061	07/01/05	Sr-90	9.20 ± 1.30	8.98	6.29 - 11.67	Pass
STW-1061	07/01/05	Tc-99	72.30 ± 2.30	66.50	46.55 - 86.45	Pass
STW-1061	07/01/05	U-233/4	4.11 ± 0.18	4.10	2.87 - 5.33	Pass
STW-1061	07/01/05	U-238	4.14 ± 0.18	4.26	2.98 - 5.54	Pass
STW-1061	07/01/05	Zn-65	364.60 ± 4.90	330.00	231.00 - 429.00	Pass
STW-1062	07/01/05	Gr. Alpha	0.57 ± 0.05	0.79	0.21 - 1.38	Pass
STW-1062	07/01/05	Gr. Beta	1.36 ± 0.05	1.35	0.85 - 1.92	Pass
STSO-1063[f]	07/01/05	Am-241	48.40 ± 3.90	81.10	56.77 - 105.43	Fail
STSO-1063	07/01/05	Co-57	608.30 ± 2.80	524.00	366.80 - 681.20	Pass
STSO-1063	07/01/05	Co-60	322.70 ± 2.40	287.00	200.90 - 373.10	Pass
STSO-1063	07/01/05	Cs-134	632.10 ± 5.20	568.00	397.60 - 738.40	Pass
STSO-1063	07/01/05	Cs-137	512.40 ± 4.20	439.00	307.30 - 570.70	Pass
STSO-1063	07/01/05	K-40	720.50 ± 19.00	604.00	422.80 - 785.20	Pass
STSO-1063	07/01/05	Mn-54	516.80 ± 5.10	439.00	307.30 - 570.70	Pass
STSO-1063	07/01/05	Ni-63	366.50 ± 13.30	445.00	311.50 - 578.50	Pass
STSO-1063	07/01/05	Pu-238	68.80 ± 15.00	60.80	42.56 - 79.04	Pass
STSO-1063	07/01/05	Pu-239/40	0.00 ± 0.00	0.00	0.00 - 0.00	
STSO-1063	07/01/05	Sr-90	602.90 ± 17.20	757.00	529.90 - 984.10	Pass
STSO-1063	07/01/05	U-233/4	61.50 ± 1.00	52.50	36.75 - 68.25	Pass
STSO-1063	07/01/05	U-238	164.50 ± 16.70	168.00	117.60 - 218.40	Pass
STSO-1063	07/01/05	Zn-65	874.70 ± 8.40	823.00	576.10 - 1070.00	Pass

TABLE D-5 DOE'S MIXED ANALYTE PERFORMANCE EVALUATION PROGRAM (MAPEP)[a]
ENVIRONMENTAL, INC., 2005

(Page 3 of 3)

Lab Code[c]	Date	Analysis	Concentration[b] Laboratory result	Known Activity	Control Limits[d]	Acceptance
STVE-1064	07/01/05	Am-241	0.18 ± 0.03	0.23	0.16 - 0.30	Pass
STVE-1064	07/01/05	Co-57	15.90 ± 0.20	13.30	9.31 - 17.29	Pass
STVE-1064	07/01/05	Co-60	4.80 ± 0.10	4.43	3.10 - 5.76	Pass
STVE-1064	07/01/05	Cs-134	4.60 ± 0.20	4.09	2.86 - 5.32	Pass
STVE-1064	07/01/05	Cs-137	5.90 ± 0.30	5.43	3.80 - 7.06	Pass
STVE-1064	07/01/05	Mn-54	7.20 ± 0.20	6.57	4.60 - 8.54	Pass
STVE-1064	07/01/05	Pu-238	0.04 ± 0.02	0.00	0.00 - 1.00	Pass
STVE-1064	07/01/05	Pu-239/40	0.13 ± 0.02	0.16	0.11 - 0.21	Pass
STVE-1064	07/01/05	Sr-90	2.80 ± 0.30	2.42	1.69 - 3.15	Pass
STVE-1064	07/01/05	U-233/4	0.28 ± 0.03	0.33	0.23 - 0.43	Pass
STVE-1064	07/01/05	U-238	0.33 ± 0.04	0.35	0.24 - 0.45	Pass
STVE-1064	07/01/05	Zn-65	11.00 ± 0.50	10.20	7.14 - 13.26	Pass
STAP-1065	07/01/05	Gr. Alpha	0.30 ± 0.04	0.48	0.00 - 0.80	Pass
STAP-1065	07/01/05	Gr. Beta	0.97 ± 0.06	0.83	0.55 - 1.22	Pass
STAP-1066	07/01/05	Am-241	0.14 ± 0.03	0.16	0.11 - 0.21	Pass
STAP-1066	07/01/05	Co-57	5.81 ± 0.17	6.20	4.34 - 8.06	Pass
STAP-1066	07/01/05	Co-60	2.79 ± 0.14	2.85	2.00 - 3.71	Pass
STAP-1066	07/01/05	Cs-134	3.67 ± 0.12	3.85	2.70 - 5.01	Pass
STAP-1066	07/01/05	Cs-137	2.93 ± 0.23	3.23	2.26 - 4.20	Pass
STAP-1066	07/01/05	Mn-54	4.11 ± 0.26	4.37	3.06 - 5.68	Pass
STAP-1066	07/01/05	Pu-238	0.11 ± 0.02	0.10	0.07 - 0.13	Pass
STAP-1066	07/01/05	Pu-239/40	0.10 ± 0.01	0.09	0.06 - 0.12	Pass
STAP-1066	07/01/05	Sr-90	2.25 ± 0.29	2.25	1.58 - 2.93	Pass
STAP-1066	07/01/05	U-233/4	0.28 ± 0.02	0.27	0.19 - 0.35	Pass
STAP-1066	07/01/05	U-238	0.28 ± 0.02	0.28	0.20 - 0.37	Pass
STAP-1066	07/01/05	Zn-65	4.11 ± 0.26	4.33	3.06 - 5.68	Pass

[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] Results are reported in units of Bq/kg (soil), Bq/L (water) or Bq/total sample (filters, vegetation) as requested by the Department of Energy.

[c] Laboratory codes as follows: STW (water), STAP (air filter), STSO (soil), STVE (vegetation).

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

[e] The strontium carbonate precipitates were redissolved and processed. The average of the three analyses was 1.34 pCi/L, although the recovery was only 30%. The result of a new analysis was 1.56 pCi/L.

[f] Incorrect sample weight used in calculation. Result of recalculation: 97.0 ± 7.8 Bq/kg.

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APPENDIX E

ERRATA DATA

Table 7. Surface Water

Collection: Monthly composites of weekly collections

Required LLDs: Gross Beta = 4, Mn-54 = 15, Fe-59 = 30, Co-58 = 15, Co-60 = 15, Zn-65 = 30, Zr-95 = 30, Nb-95 = 15, I-131 = 15, Cs-134 = 15, Cs-137 = 18, Ba-140 = 60, La-140 = 15 pCi/L

Units: pCi/L

Sample Description and Concentration

D-51 Dresden Lock & Dam

2003 Collection Period	January	February	March
Lab Code	CDSW-505	CDSW-987	CDSW-1482
Gross Beta	6.2 ± 1.4 ; 1.7	6.0 ± 1.2 ; 1.5	6.9 ± 1.5 ; 1.8
Mn-54	-2.1± 3.2 ; 3.2	0.9± 3.3 ; 3.3	-0.9± 1.8 ; 1.8
Fe-59	4.1± 5.2 ; 5.3	3.4± 4.7 ; 4.7	1.2± 3.2 ; 3.2
Co-58	1.5± 2.8 ; 2.9	4.8± 3.8 ; 3.9	1.1± 1.6 ; 1.6
Co-60	-1.9± 2.4 ; 2.4	-0.9± 3.8 ; 3.8	0.2± 1.6 ; 1.6
Zn-65	1.2± 5.7 ; 5.7	-5.6± 8.0 ; 8.1	-1.0± 3.8 ; 3.8
Zr-95	-2.6± 5.4 ; 5.4	5.5± 8.0 ; 8.0	-3.7± 4.0 ; 4.0
Nb-95	-1.1± 3.0 ; 3.0	-0.8± 3.5 ; 3.5	0.8± 1.7 ; 1.7
I-131	3.3± 2.7 ; 2.8	-3.7± 3.3 ; 3.4	2.6± 1.9 ; 1.9
Cs-134	1.7± 2.8 ; 2.8	-0.8± 3.9 ; 3.9	1.0± 2.1 ; 2.1
Cs-137	1.1± 3.4 ; 3.4	-3.4± 3.8 ; 3.9	0.9± 1.9 ; 1.9
Ba-140	6.9± 9.7 ; 9.8	7.9± 11.7 ; 11.8	-4.6± 6.3 ; 6.3
La-140	-2.2 ± 4.0 ; 4.0	-4.1 ± 3.4 ; 3.4	-1.7 ± 1.8 ; 1.8

2003 Collection Period	April	May	June
Lab Code	CDSW-2495	CDSW-3030	CDSW-3513
Gross Beta	5.7 ± 1.2 ; 1.4	4.0 ± 1.0 ; 1.2	5.9 ± 1.1 ; 1.4
Mn-54	-0.2± 2.3 ; 2.3	1.0± 2.1 ; 2.1	-1.4± 1.2 ; 1.2
Fe-59	1.3± 4.6 ; 4.6	-0.7± 4.5 ; 4.5	1.1± 3.4 ; 3.4
Co-58	1.2± 2.6 ; 2.6	-1.8± 2.2 ; 2.2	-0.1± 1.9 ; 1.9
Co-60	1.2± 2.6 ; 2.6	-3.2± 2.4 ; 2.4	-0.3± 1.6 ; 1.6
Zn-65	-1.5± 4.9 ; 4.9	-0.7± 5.0 ; 5.0	-0.4± 4.0 ; 4.0
Zr-95	3.5± 4.5 ; 4.6	2.6± 5.5 ; 5.5	0.6± 4.3 ; 4.3
Nb-95	-0.9± 2.1 ; 2.1	1.1± 2.2 ; 2.2	-2.7± 1.9 ; 1.9
I-131	-6.1± 2.1 ; 2.3	2.7± 2.4 ; 2.5	1.0± 2.4 ; 2.4
Cs-134	-1.1± 2.7 ; 2.7	-0.2± 3.1 ; 3.1	-1.5± 2.2 ; 2.2
Cs-137	-0.8± 3.0 ; 3.0	0.0± 3.0 ; 3.0	2.0± 2.2 ; 2.2
Ba-140	-1.6± 7.5 ; 7.5	-9.8± 7.7 ; 7.8	-0.9± 7.3 ; 7.3
La-140	-3.7 ± 2.7 ; 2.7	-6.1 ± 2.7 ; 2.8	-1.1 ± 2.2 ; 2.2

Table 7. Surface Water

Collection: Monthly composites of weekly collections

Required LLDs: Gross Beta = 4, Mn-54 = 15, Fe-59 = 30, Co-58 = 15, Co-60 = 15, Zn-65 = 30, Zr-95 = 30, Nb-95 = 15, I-131 = 15, Cs-134 = 15, Cs-137 = 18, Ba-140 = 60, La-140 = 15 pCi/L

Units: pCi/L

Sample Description and Concentration

D-51 Dresden Lock & Dam

2003 Collection Period	July	August	September
Lab Code	CDSW-4353	CDSW-5076	CDSW-5764
Gross Beta	4.8 ± 1.5 ; 1.6	4.5 ± 1.1 ; 1.3	5.6 ± 1.2 ; 1.5
Mn-54	1.3± 1.9 ; 1.9	1.2± 1.4 ; 1.4	1.9± 2.7 ; 2.7
Fe-59	1.1± 3.2 ; 3.2	0.8± 3.3 ; 3.3	1.0± 4.9 ; 4.9
Co-58	-0.4± 1.7 ; 1.7	-0.8± 1.2 ; 1.2	0.5± 1.7 ; 1.7
Co-60	0.6± 1.7 ; 1.7	-1.9± 1.6 ; 1.6	-0.4± 3.0 ; 3.0
Zn-65	-2.2± 4.3 ; 4.3	2.2± 3.2 ; 3.2	-2.0± 6.6 ; 6.6
Zr-95	-1.2± 4.5 ; 4.5	0.2± 3.3 ; 3.3	-3.7± 6.4 ; 6.4
Nb-95	-1.1± 1.8 ; 1.8	0.5± 1.6 ; 1.6	-1.2± 3.0 ; 3.0
I-131	-4.2± 1.8 ; 1.9	6.3± 2.1 ; 2.3	-3.7± 2.4 ; 2.5
Cs-134	-0.3± 1.7 ; 1.7	1.0± 1.7 ; 1.7	0.7± 3.7 ; 3.7
Cs-137	-0.3± 2.2 ; 2.2	0.7± 1.6 ; 1.6	-2.0± 2.5 ; 2.5
Ba-140	-1.5± 7.2 ; 7.2	9.0± 6.3 ; 6.4	3.8± 8.6 ; 8.7
La-140	-3.8 ± 2.3 ; 2.4	0.3 ± 1.8 ; 1.8	-1.6 ± 3.1 ; 3.1

2003 Collection Period	October	November	December
Lab Code	CDSW-6694	CDSW-7355	CDSW-7786
Gross Beta	6.2 ± 1.4 ; 1.7	5.0 ± 1.1 ; 1.3	2.6 ± 1.3 ; 1.4
Mn-54	2.3± 2.7 ; 2.7	0.7± 1.8 ; 1.8	1.1± 1.7 ; 1.7
Fe-59	-3.8± 6.0 ; 6.0	1.8± 3.1 ; 3.1	-1.2± 3.5 ; 3.5
Co-58	2.0± 2.7 ; 2.7	1.9± 1.7 ; 1.7	-0.9± 1.6 ; 1.6
Co-60	-0.9± 2.9 ; 2.9	1.1± 1.8 ; 1.8	-0.3± 2.1 ; 2.1
Zn-65	-2.1± 4.0 ; 4.0	-2.2± 3.7 ; 3.7	-2.6± 4.8 ; 4.8
Zr-95	-0.1± 5.1 ; 5.1	-0.3± 4.6 ; 4.6	-1.8± 4.5 ; 4.5
Nb-95	0.3± 2.4 ; 2.4	-0.8± 1.8 ; 1.8	2.8± 2.0 ; 2.1
I-131	5.8± 2.8 ; 2.9	0.6± 2.7 ; 2.7	3.0± 2.6 ; 2.7
Cs-134	3.5± 2.4 ; 2.5	1.1± 2.2 ; 2.2	-0.1± 2.2 ; 2.2
Cs-137	2.6± 3.1 ; 3.1	1.1± 2.2 ; 2.2	1.2± 2.1 ; 2.1
Ba-140	1.5± 9.2 ; 9.2	6.8± 6.8 ; 6.8	5.1± 7.4 ; 7.5
La-140	-7.6 ± 3.4 ; 3.6	-3.1 ± 2.3 ; 2.4	3.1 ± 2.2 ; 2.3

Table 7. Surface Water

Collection: Monthly composites of weekly collections

Required LLDs: Gross Beta = 4, Mn-54 = 15, Fe-59 = 30, Co-58 = 15, Co-60 = 15, Zn-65 = 30, Zr-95 = 30, Nb-95 = 15, I-131 = 15, Cs-134 = 15, Cs-137 = 18, Ba-140 = 60, La-140 = 15 pCi/L

Units: pCi/L

Sample Description and Concentration

D-52 (C) DesPlaines River

2003 Collection Period	January	February	March
Lab Code	CDSW-506	CDSW-988	CDSW-1483
Gross Beta	13.6 ± 1.6 ; 2.7*	9.0 ± 1.3 ; 1.9	9.6 ± 1.4 ; 2.0
Mn-54	-0.1 ± 2.1 ; 2.1	-1.9 ± 2.4 ; 2.4	1.0 ± 3.1 ; 3.1
Fe-59	1.2 ± 3.8 ; 3.8	-1.1 ± 2.8 ; 2.8	0.8 ± 5.1 ; 5.1
Co-58	0.1 ± 2.1 ; 2.1	1.1 ± 2.3 ; 2.3	-0.5 ± 2.7 ; 2.7
Co-60	1.2 ± 1.9 ; 1.9	1.6 ± 2.5 ; 2.5	-0.2 ± 1.9 ; 1.9
Zn-65	1.8 ± 2.8 ; 2.8	1.8 ± 3.6 ; 3.6	3.4 ± 5.6 ; 5.6
Zr-95	-4.1 ± 4.0 ; 4.0	-3.5 ± 4.7 ; 4.7	-1.9 ± 5.8 ; 5.8
Nb-95	0.2 ± 1.8 ; 1.8	0.4 ± 2.5 ; 2.5	-0.6 ± 2.8 ; 2.8
I-131	0.7 ± 2.0 ; 2.0	1.2 ± 2.4 ; 2.4	1.9 ± 2.4 ; 2.4
Cs-134	3.4 ± 2.1 ; 2.1	1.9 ± 3.2 ; 3.2	2.4 ± 3.1 ; 3.1
Cs-137	-0.5 ± 2.2 ; 2.2	0.1 ± 2.4 ; 2.4	-1.5 ± 2.1 ; 2.1
Ba-140	-3.3 ± 7.3 ; 7.3	-13.2 ± 9.7 ; 9.9	-9.9 ± 7.8 ; 8.0
La-140	0.3 ± 2.1 ; 2.1	4.9 ± 2.8 ; 2.9	4.1 ± 2.5 ; 2.5

2003 Collection Period	April	May	June
Lab Code	CDSW-2496	CDSW-3031	CDSW-3514
Gross Beta	8.1 ± 1.3 ; 1.8	5.2 ± 1.1 ; 1.4	7.4 ± 1.2 ; 1.7
Mn-54	-0.1 ± 1.0 ; 1.0	-0.4 ± 1.9 ; 1.9	-1.0 ± 1.7 ; 1.7
Fe-59	1.7 ± 1.8 ; 1.8	1.3 ± 3.7 ; 3.7	1.8 ± 2.7 ; 2.8
Co-58	-0.1 ± 0.8 ; 0.8	0.6 ± 1.5 ; 1.5	0.3 ± 1.3 ; 1.3
Co-60	0.4 ± 1.0 ; 1.0	0.8 ± 1.6 ; 1.6	-0.4 ± 1.8 ; 1.8
Zn-65	0.8 ± 2.2 ; 2.2	-1.2 ± 4.1 ; 4.1	1.0 ± 4.1 ; 4.1
Zr-95	1.4 ± 2.1 ; 2.1	0.6 ± 4.0 ; 4.0	-0.8 ± 4.3 ; 4.3
Nb-95	0.3 ± 1.0 ; 1.0	0.6 ± 1.7 ; 1.7	-2.3 ± 1.7 ; 1.7
I-131	4.4 ± 1.3 ; 1.5	-1.8 ± 1.9 ; 1.9	1.0 ± 1.9 ; 1.9
Cs-134	-0.1 ± 1.1 ; 1.1	1.9 ± 2.1 ; 2.2	0.7 ± 1.9 ; 1.9
Cs-137	-0.4 ± 1.1 ; 1.1	-1.2 ± 2.1 ; 2.1	1.9 ± 1.8 ; 1.8
Ba-140	-2.1 ± 3.9 ; 3.9	-6.9 ± 6.6 ; 6.7	-1.9 ± 5.9 ; 5.9
La-140	1.1 ± 1.1 ; 1.1	0.3 ± 2.2 ; 2.2	-0.3 ± 1.8 ; 1.8

*Repeat result; original gross beta = 13.6±1.6; recount = 13.5±2.3 pCi/L.

Table 7. Surface Water

Collection: Monthly composites of weekly collections

Required LLDs: Gross Beta = 4, Mn-54 = 15, Fe-59 = 30, Co-58 = 15, Co-60 = 15, Zn-65 = 30, Zr-95 = 30, Nb-95 = 15, I-131 = 15, Cs-134 = 15, Cs-137 = 18, Ba-140 = 60, La-140 = 15 pCi/L

Units: pCi/L

Sample Description and Concentration

D-52 (C) DesPlaines River

2003 Collection Period	July	August	September
Lab Code	CDSW-4354	CDSW-5077	CDSW-5765
Gross Beta	5.8 ± 1.5 ; 1.8	5.9 ± 1.1 ; 1.4	6.7 ± 1.3 ; 1.6
Mn-54	0.1± 1.9 ; 1.9	-2.1± 2.7 ; 2.7	1.1± 1.5 ; 1.5
Fe-59	-1.8± 3.5 ; 3.5	3.1± 4.8 ; 4.8	-1.1± 3.5 ; 3.5
Co-58	0.7± 1.7 ; 1.7	-0.2± 3.1 ; 3.1	-0.2± 2.1 ; 2.1
Co-60	-0.2± 1.8 ; 1.8	-2.8± 2.6 ; 2.6	0.5± 1.7 ; 1.7
Zn-65	0.4± 4.5 ; 4.5	-6.8± 6.5 ; 6.6	-2.3± 4.6 ; 4.6
Zr-95	-2.1± 4.4 ; 4.4	4.2± 5.0 ; 5.0	-0.4± 4.2 ; 4.2
Nb-95	0.4± 2.1 ; 2.1	-2.3± 2.5 ; 2.5	-1.3± 2.1 ; 2.1
I-131	1.6± 2.5 ; 2.5	6.8± 2.9 ; 3.1	2.1± 2.0 ; 2.0
Cs-134	0.8± 2.1 ; 2.1	1.6± 3.4 ; 3.4	-0.8± 2.0 ; 2.0
Cs-137	0.8± 2.1 ; 2.1	-0.8± 2.8 ; 2.8	-1.3± 2.2 ; 2.2
Ba-140	-8.3± 7.1 ; 7.2	12.2± 8.5 ; 8.7	-1.3± 7.4 ; 7.4
La-140	-4.9 ± 2.1 ; 2.2	-1.6 ± 3.2 ; 3.2	1.0 ± 2.5 ; 2.5

2003 Collection Period	October	November	December
Lab Code	CDSW-6696	CDSW-7356	CDSW-7787
Gross Beta	5.6 ± 1.3 ; 1.5	4.8 ± 1.1 ; 1.3	3.3 ± 0.6 ; 0.8
Mn-54	0.6± 1.9 ; 1.9	-0.1± 1.8 ; 1.8	0.5± 1.6 ; 1.6
Fe-59	2.0± 3.3 ; 3.3	1.1± 3.3 ; 3.3	-3.7± 3.5 ; 3.5
Co-58	1.5± 1.6 ; 1.6	0.8± 1.7 ; 1.7	0.7± 1.5 ; 1.6
Co-60	0.7± 1.3 ; 1.4	0.2± 1.4 ; 1.4	0.9± 2.0 ; 2.0
Zn-65	-0.2± 4.4 ; 4.4	5.3± 3.4 ; 3.5	0.2± 3.6 ; 3.6
Zr-95	0.8± 4.1 ; 4.1	-1.2± 3.8 ; 3.8	-3.1± 4.5 ; 4.5
Nb-95	1.8± 1.9 ; 1.9	0.1± 1.6 ; 1.6	0.2± 1.9 ; 1.9
I-131	-2.4± 2.3 ; 2.3	-0.7± 2.0 ; 2.0	1.5± 1.8 ; 1.8
Cs-134	0.2± 1.9 ; 1.9	1.3± 1.8 ; 1.8	-2.1± 2.3 ; 2.3
Cs-137	1.2± 2.2 ; 2.2	1.9± 1.8 ; 1.8	-1.2± 2.0 ; 2.0
Ba-140	-2.0± 7.2 ; 7.2	-1.2± 6.8 ; 6.8	4.7± 5.7 ; 5.7
La-140	0.7 ± 1.9 ; 1.9	-1.8 ± 2.3 ; 2.3	0.5 ± 2.3 ; 2.3

Table 7. Surface Water

Collection: Monthly composites of weekly collections

Required LLDs: Gross Beta = 4, Mn-54 = 15, Fe-59 = 30, Co-58 = 15, Co-60 = 15, Zn-65 = 30, Zr-95 = 30, Nb-95 = 15, I-131 = 15, Cs-134 = 15, Cs-137 = 18, Ba-140 = 60, La-140 = 15 pCi/L

Units: pCi/L

Sample Description and Concentration

D-54 (C) Kankakee River*

2003 Collection Period	January	February	March
Lab Code	CDSW-503	CDSW-908	CDSW-1478
Gross Beta	2.4 ± 1.0 ; 1.0	4.0 ± 1.1 ; 1.3	4.6 ± 1.3 ; 1.5
Mn-54	-0.1 ± 1.9 ; 1.9	1.8 ± 1.8 ; 1.8	-3.4 ± 3.3 ; 3.3
Fe-59	0.2 ± 3.3 ; 3.3	3.2 ± 4.0 ; 4.0	-2.7 ± 6.6 ; 6.6
Co-58	-0.6 ± 2.1 ; 2.1	-0.4 ± 2.1 ; 2.1	-2.7 ± 3.1 ; 3.1
Co-60	-2.6 ± 2.6 ; 2.6	-1.5 ± 2.5 ; 2.5	-0.4 ± 3.6 ; 3.6
Zn-65	2.0 ± 4.4 ; 4.4	-6.4 ± 4.4 ; 4.5	2.0 ± 7.6 ; 7.6
Zr-95	-1.5 ± 4.4 ; 4.4	-0.8 ± 4.7 ; 4.7	3.0 ± 5.5 ; 5.5
Nb-95	-1.7 ± 2.1 ; 2.2	0.8 ± 2.0 ; 2.0	1.5 ± 3.0 ; 3.0
I-131	7.1 ± 2.7 ; 2.9	-0.6 ± 2.7 ; 2.7	4.3 ± 3.5 ; 3.5
Cs-134	-2.1 ± 2.5 ; 2.5	-1.5 ± 2.1 ; 2.1	0.9 ± 3.8 ; 3.8
Cs-137	-1.8 ± 2.3 ; 2.3	0.6 ± 2.2 ; 2.2	-0.5 ± 3.2 ; 3.2
Ba-140	1.7 ± 8.9 ; 8.9	-1.7 ± 8.0 ; 8.0	-15.7 ± 11.0 ; 11.2
La-140	2.6 ± 2.0 ; 2.0	-2.2 ± 2.4 ; 2.4	-4.5 ± 4.4 ; 4.4

2003 Collection Period	April	May	June
Lab Code	CDSW-2491	CDSW-2874	CDSW-3860
Gross Beta	3.6 ± 1.0 ; 1.2	2.5 ± 1.1 ; 1.1	2.8 ± 1.1 ; 1.2
Mn-54	-0.2 ± 1.1 ; 1.1	0.1 ± 1.6 ; 1.6	0.4 ± 0.6 ; 0.6
Fe-59	-0.6 ± 2.2 ; 2.2	0.7 ± 2.6 ; 2.6	0.5 ± 1.2 ; 1.2
Co-58	0.0 ± 1.0 ; 1.0	0.9 ± 1.6 ; 1.6	0.9 ± 0.6 ; 0.6
Co-60	1.0 ± 1.1 ; 1.2	1.4 ± 2.0 ; 2.0	0.7 ± 0.7 ; 0.7
Zn-65	-0.1 ± 2.0 ; 2.0	-0.2 ± 4.1 ; 4.1	-0.9 ± 1.5 ; 1.5
Zr-95	-2.7 ± 2.2 ; 2.3	-0.6 ± 3.7 ; 3.7	-0.8 ± 1.4 ; 1.4
Nb-95	-0.2 ± 1.1 ; 1.1	-1.0 ± 1.8 ; 1.8	0.4 ± 0.6 ; 0.6
I-131	-2.1 ± 1.4 ; 1.5	1.7 ± 1.8 ; 1.8	-0.4 ± 0.7 ; 0.7
Cs-134	-0.6 ± 1.4 ; 1.4	1.2 ± 1.3 ; 1.3	0.3 ± 0.7 ; 0.7
Cs-137	-0.9 ± 1.2 ; 1.2	-0.2 ± 2.0 ; 2.0	0.0 ± 0.7 ; 0.7
Ba-140	-2.4 ± 4.2 ; 4.3	2.0 ± 7.1 ; 7.1	5.9 ± 2.5 ; 2.6
La-140	-1.3 ± 1.2 ; 1.3	-1.4 ± 1.9 ; 1.9	-1.8 ± 0.9 ; 0.9

* Location added by station request; data shared with Braidwood Station, location 10.

Table 7. Surface Water

Collection: Monthly composites of weekly collections

Required LLDs: Gross Beta = 4, Mn-54 = 15, Fe-59 = 30, Co-58 = 15, Co-60 = 15, Zn-65 = 30, Zr-95 = 30, Nb-95 = 15, I-131 = 15, Cs-134 = 15, Cs-137 = 18, Ba-140 = 60, La-140 = 15 pCi/L

Units: pCi/L

Sample Description and Concentration

D-54 (C) Kankakee River[a]

2003 Collection Period	July	August	September
Lab Code	CDSW-4364	CDSW-5066	CDSW-5566
Gross Beta	4.0 ± 1.4 ; 1.6	2.9 ± 1.1 ; 1.2	4.0 ± 1.2 ; 1.3
Mn-54	0.6± 3.5 ; 3.5	0.3± 2.3 ; 2.3	-1.0± 1.7 ; 1.7
Fe-59	4.9± 6.5 ; 6.5	1.9± 4.6 ; 4.6	0.2± 3.2 ; 3.2
Co-58	2.5± 3.6 ; 3.6	-0.4± 2.4 ; 2.4	-0.1± 1.4 ; 1.4
Co-60	1.7± 4.1 ; 4.1	-1.1± 1.9 ; 1.9	-0.3± 1.7 ; 1.7
Zn-65	-6.7± 7.5 ; 7.6	2.1± 4.1 ; 4.1	2.2± 4.0 ; 4.0
Zr-95	-2.4± 7.1 ; 7.1	3.0± 6.3 ; 6.3	-1.9± 4.1 ; 4.1
Nb-95	3.9± 3.1 ; 3.1	1.0± 2.4 ; 2.4	-3.5± 1.8 ; 1.9
I-131	-1.9± 3.7 ; 3.7	0.8± 2.2 ; 2.2	1.7± 2.1 ; 2.1
Cs-134	-2.4± 3.9 ; 3.9	-1.2± 2.9 ; 3.0	-0.6± 1.9 ; 1.9
Cs-137	2.7± 2.8 ; 2.8	1.0± 2.9 ; 3.0	0.4± 2.2 ; 2.2
Ba-140	-4.0± 11.2 ; 11.2	-3.8± 8.3 ; 8.3	-7.1± 7.1 ; 7.2
La-140	-0.1 ± 4.7 ; 4.7	-0.5 ± 3.2 ; 3.2	-1.3 ± 2.4 ; 2.4

2003 Collection Period	October	November	December
Lab Code	CDSW-6707	CDSW-7305	CDSW-7767
Gross Beta	3.4 ± 1.0 ; 1.1	5.5 ± 1.1 ; 1.4	2.0 ± 0.9 ; 1.0
Mn-54	-1.6± 2.0 ; 2.0	-0.7± 3.4 ; 3.4	-0.5± 1.6 ; 1.6
Fe-59	-6.1± 3.7 ; 3.8	-0.4± 5.3 ; 5.3	-3.5± 3.7 ; 3.7
Co-58	1.5± 1.8 ; 1.9	2.2± 3.6 ; 3.7	0.3± 1.8 ; 1.8
Co-60	0.7± 1.8 ; 1.8	-3.0± 4.0 ; 4.0	-0.9± 2.0 ; 2.0
Zn-65	-1.6± 4.3 ; 4.3	-3.4± 7.4 ; 7.4	-1.8± 4.5 ; 4.5
Zr-95	2.0± 3.9 ; 3.9	-6.0± 8.1 ; 8.2	-6.7± 4.7 ; 4.8
Nb-95	2.1± 1.9 ; 1.9	-1.5± 3.7 ; 3.7	0.3± 1.5 ; 1.5
I-131	4.2± 2.4 ; 2.5	0.5± 3.4 ; 3.4	1.2± 2.1 ; 2.1
Cs-134	-1.3± 2.1 ; 2.1	-1.5± 3.5 ; 3.5	0.4± 2.0 ; 2.0
Cs-137	0.6± 2.0 ; 2.0	1.1± 3.0 ; 3.0	-0.8± 2.0 ; 2.0
Ba-140	1.5± 8.2 ; 8.2	1.4± 10.6 ; 10.6	-1.8± 7.2 ; 7.2
La-140	1.9 ± 2.6 ; 2.6	-5.6 ± 4.7 ; 4.8	-0.3 ± 1.7 ; 1.7

[a] Location added by station request; data shared with Braidwood Station, location 10.

Table 8. Well Water

Collection: Quarterly

Required LLDs: H-3 = 200, Mn-54 = 15, Fe-59 = 30, Co-58 = 15, Co-60 = 15, Zn-65 = 30, Zr-95 = 30, Nb-95 = 15, I-131 = 15 Cs-134 = 15, Cs-137 = 18, Ba-140 = 60, La-140 = 15 pCi/L

Units: pCi/L

Sample Description and Concentration

D-23 Thorsen Well

Date Collected	01-10-03	04-11-03	07-11-03	10-10-03
Lab Code	CDWW-159	CDWW-1787	CDWW-3881	CDWW-5896
H-3	609 ± 93 ; 124	729 ± 96 ; 138	839 ± 115 ; 162	711 ± 110 ; 147
Mn-54	-1.0 ± 3.1 ; 3.1	-2.4 ± 2.0 ; 2.0	1.5 ± 1.6 ; 1.6	2.0 ± 3.1 ; 3.1
Fe-59	-5.6 ± 5.0 ; 5.1	-5.8 ± 4.5 ; 4.6	0.7 ± 2.9 ; 2.9	-1.8 ± 5.6 ; 5.6
Co-58	-0.8 ± 3.1 ; 3.5	0.4 ± 2.3 ; 3.0	0.2 ± 1.6 ; 1.2	-3.3 ± 2.4 ; 2.6
Co-60	-1.0 ± 3.5 ; 3.1	-0.3 ± 3.0 ; 2.3	0.4 ± 1.2 ; 1.6	-2.4 ± 2.6 ; 2.4
Zn-65	-3.6 ± 4.5 ; 4.6	1.4 ± 4.2 ; 4.2	-0.6 ± 3.8 ; 3.8	-0.7 ± 5.6 ; 5.6
Zr-95	-2.1 ± 6.1 ; 6.1	0.6 ± 5.6 ; 5.6	-2.5 ± 3.4 ; 3.4	4.3 ± 6.0 ; 6.0
Nb-95	-0.5 ± 2.9 ; 2.9	-1.0 ± 2.9 ; 2.9	0.6 ± 1.8 ; 1.8	-1.8 ± 3.1 ; 3.1
I-131	4.7 ± 3.0 ; 3.0	1.3 ± 2.5 ; 2.5	1.3 ± 1.6 ; 1.6	4.3 ± 2.7 ; 2.8
Cs-134	-3.1 ± 4.1 ; 4.1	-1.2 ± 3.9 ; 3.9	0.1 ± 1.7 ; 1.7	-0.5 ± 3.1 ; 3.1
Cs-137	-1.4 ± 3.4 ; 3.4	-0.7 ± 3.5 ; 3.5	0.9 ± 1.8 ; 1.8	2.8 ± 3.3 ; 3.4
Ba-140	17.1 ± 9.7 ; 10.0	7.8 ± 8.3 ; 8.4	-3.2 ± 6.7 ; 6.7	1.5 ± 9.0 ; 9.0
La-140	-1.7 ± 3.2 ; 3.2	1.2 ± 2.6 ; 2.6	-3.0 ± 2.3 ; 2.3	0.9 ± 3.0 ; 3.0

D-35 Dresden Lock & Dam

Date Collected	01-10-03	04-11-03	07-11-03	10-10-03
Lab Code	CDWW-160	CDWW-1788	CDWW-3882	CDWW-5897
H-3	-61 ± 62 ; 62	16 ± 64 ; 64	12 ± 74 ; 74	0 ± 81 ; 81
Mn-54	1.3 ± 1.4 ; 1.4	1.2 ± 3.3 ; 3.3	0.7 ± 3.4 ; 3.4	0.5 ± 1.4 ; 1.4
Fe-59	-2.1 ± 3.2 ; 3.2	-2.2 ± 4.8 ; 4.8	-2.5 ± 6.3 ; 6.3	0.4 ± 3.2 ; 3.2
Co-58	0.6 ± 1.6 ; 1.5	2.6 ± 3.0 ; 4.3	1.5 ± 2.7 ; 4.2	1.1 ± 1.6 ; 1.7
Co-60	-0.1 ± 1.5 ; 1.6	0.4 ± 4.3 ; 3.0	-1.3 ± 4.2 ; 2.7	-1.1 ± 1.6 ; 1.6
Zn-65	-2.3 ± 4.3 ; 4.3	1.8 ± 7.6 ; 7.6	-0.4 ± 6.6 ; 6.6	-1.1 ± 3.3 ; 3.3
Zr-95	-0.8 ± 3.8 ; 3.8	-2.9 ± 8.1 ; 8.2	3.0 ± 5.0 ; 5.0	0.8 ± 4.0 ; 4.0
Nb-95	0.2 ± 1.4 ; 1.4	2.0 ± 3.4 ; 3.4	-0.6 ± 2.8 ; 2.8	-0.7 ± 1.8 ; 1.8
I-131	-0.9 ± 1.7 ; 1.7	0.3 ± 3.4 ; 3.4	2.3 ± 3.8 ; 3.9	1.5 ± 2.1 ; 2.1
Cs-134	3.0 ± 1.8 ; 1.9	-0.1 ± 3.8 ; 3.8	-0.6 ± 3.4 ; 3.4	-0.5 ± 1.7 ; 1.7
Cs-137	-0.5 ± 1.6 ; 1.6	0.6 ± 3.8 ; 3.8	1.0 ± 3.3 ; 3.3	-0.6 ± 1.7 ; 1.7
Ba-140	0.3 ± 6.6 ; 6.6	2.1 ± 9.5 ; 9.5	4.8 ± 11.3 ; 11.3	-1.4 ± 7.4 ; 7.4
La-140	-1.1 ± 2.0 ; 2.0	0.3 ± 4.3 ; 4.3	-4.9 ± 4.7 ; 4.8	-0.6 ± 1.8 ; 1.8

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APPENDIX F

EFFLUENT DATA

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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 Illinois Rivers where they form the Illinois River. This stations 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 permanently on August 31, 1984 and is currently being decommissioned. Unit 2 net rated power output was increased to 912 MWe in 2001; Unit 3 net rated power output was increased to 912 MWe in 2002. The station has been designed to keep releases to the environment at levels below those specified in the regulations.

Liquid effluents from Dresden Station 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 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 operations. If significant changes attributable to Dresden Station 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 7.21E+00 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 (7.19 mrem). The balance of the calculated maximum dose (0.02 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 of noble gases, radioiodine, and particulate radioactivity with half lives greater than eight days released to the atmosphere during the year, are listed in Table 1.1-1. A total of 6.55E+01 curies of noble gases with a maximum quarterly average release rate of 2.71E+00 µCi/sec were released from Dresden Units 1, 2 and 3.

A total of 7.05E-04 curies of 1-131 were released during the year with a maximum average quarterly release rate of 2.62E-05 µCi/sec.

A total of 2.19E-03 curies of particulate activity with half lives greater than eight days were released as airborne particulate matter with a maximum average release rate of 8.31E-05 µCi/sec. Alpha-emitting radionuclides were below LLD for the period. Also, 2.33E+01 curies of tritium were released with a maximum quarterly average release rate of 1.42E+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 2.67E+06 liters of radioactive liquid wastes containing 5.99E-03 curies of fission and activation products (excluding tritium, noble gases and gross alpha) were discharged from the station. These wastes were released at a maximum quarterly diluted average concentration of 3.38E-08 µCi/ml from all units. During the same period, 1.17E+01 curies of tritium were released with a maximum quarterly average diluted concentration of 4.38E-05 µCi/ml. Alpha-emitting radionuclides were below LLD.

2.0 SOLID RADIOACTIVE WASTE

Solid radioactive wastes were shipped by truck to the Barnwell disposal facility, the Envirocare disposal facility or to waste processors. For more detail, refer the Dresden Station 2005 Radioactive Effluent Release 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 Stations, two methods are reported in the following sections. Both methods employ measured isotopic composition and release rates from the stations.

"Historical meteorological data" are used in ODCM required calculations performed at least every 31 days. These data use a ten-year average (1/1/1978-12/31/1987) for Dresden Station. Actual "concurrent meteorological data" is used to recalculate the quarterly release information using actual meteorological data for the period.

3.1.1.1 Gamma Air and Total Body Dose

Offsite Gamma air and total body dose rates are shown in Table 3.1-1 and were calculated based on measured released rate, 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.

Based on measured effluents and historical meteorological data, the maximum total body dose (from all units) to an individual is calculated to be 1.14E-03 mrem for the year (Table 3.1-1) for the year, with an occupancy or shielding factor of 0.7 included. The maximum total body dose from all units based on measured effluents and concurrent meteorological data would be 2.10E-03 mrem (Table 3.4-1). The maximum gamma air dose was based on measured effluents and historical meteorological data was 1.51E-03 mrad (Table 3.1-1) and 2.87E-03 mrad based on concurrent meteorological date (Table 3.4-1).

3.1.1.2 Beta Air and Skin Dose

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 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 7.0 mg/cm^2 and an occupancy factor of 1.0 is used. The skin dose from beta and gamma radiation based on measured effluents and historical meteorological data for the year was 1.24E-03 mrem (Table 3.1-1) and 2.61E-03 mrem based on concurrent meteorological data (Table 3.4-1).

The maximum offsite beta air dose based on measured effluents and historical meteorological data for the year was 5.82E-05 mrad (Table 3.1-1) and 2.95E-04 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 Dose to Thyroid

The hypothetical thyroid dose to the 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 did not exceed 1.93E-02 mrem during the year (Table 3.1-1[child]).

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 tracts, thyroid, bone and skin; specific parameters for use in the equations are given in the Dresden Station Offsite Dose Calculation Manual. The maximum whole body and organ dose for the year was 2.30E-04 mrem (child) and 1.37E-03 mrem (child/adult), respectively (Table 3.2-1).

3.3 Assessment of Dose to Member of Public

During the period January to December, 2005, Dresden Station did not exceed the following limits as shown in Table 3.1-1 and Table 3.2-1 (based on historical meteorological data) and as shown in Table 3.4-1 (based on concurrent meteorological data), and

- 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 year; 3 mrem to the total body or 10 mrem to any organ during the 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 a 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) during any

calendar year.

3.4 40CFR190 Compliance

Due to the proximity of Dresden Station to General Electric Morris Operations (GEMO), potential dose from that facility to a member of the public is considered when evaluating compliance with 40CFR190 requirements. The maximum calculated potential dose from the GEMO facility in 2005 was 3.19E-01 mrem. Combined with the maximum calculated potential dose from Dresden, the limits of 40CFR190 are not approached or exceeded by any individual in the general environment between the two facilities.

4.0 SITE METEOROLOGY

A summary of the site meteorological measurements taken during each calendar quarter of the year is given in Appendix G. The data are presented as cumulative joint frequency distributions of the wind direction for the 35' and 300' levels and wind speed class by atmospheric stability class determined from the temperature difference between the 150' and 35' and between the 300' and 35' levels, respectively. Data recovery for these measurements was 99.6% during 2005.

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

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APPENDIX F-1

DATA TABLES AND FIGURES

Table 1.1-1

GASEOUS EFFLUENTS SUMMATION OF ALL GASEOUS RELEASES

DRESDEN NUCLEAR POWER STATION
UNITS 1, 2 AND 3 RADIOACTIVE EFFLUENT RELEASE REPORT
January Through December 2005

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

	Units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Est. Total Error, %
A. FISSION & ACTIVATION GASES						
1. Total Release	Ci	2.10E+01	1.94E+01	1.55E+01	9.57E+00	24.5%
2. Average Release Rate for the Period	µCi/sec	2.71E+00	2.46E+00	1.95E+00	1.20E+00	
3. Percent of Technical Specification Limit	%	*	*	*	*	
B. IODINES						
1. Total Iodine-131	Ci	1.27E-04	2.06E-04	2.06E-04	1.66E-04	26.0%
2. Average Release Rate of I-131 for the Period	µCi/sec	1.63E-05	2.62E-05	2.59E-05	2.09E-05	
3. Percent of Technical Specification Limit	%	*	*	*	*	
4. Total Iodine-131, Iodine-133 and Iodine-135	Ci	5.14E-04	8.77E-04	9.29E-04	5.82E-04	
C. PARTICULATES						
1. Particulates with half-lives > 8 days	Ci	6.10E-04	5.31E-04	3.87E-04	6.61E-04	29.0%
2. Average Release Rate for the Period	µCi/sec	7.85E-05	6.75E-05	4.87E-05	8.31E-05	
3. Percent of Technical Specification Limit	%	*	*	*	*	
4. Gross Alpha Radioactivity	Ci	<LLD	<LLD	<LLD	<LLD	
D. TRITIUM						
1. Total Release	Ci	2.29E+00	1.12E+01	4.87E+00	4.94E+00	7.62%
2. Average Release Rate for the Period	µCi/sec	2.95E-01	1.42E+00	6.13E-01	6.22E-01	
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, and tritium.

Table 1.2-1

LIQUID EFFLUENTS SUMMATION OF ALL LIQUID RELEASES

DRESDEN NUCLEAR POWER STATION
UNITS 1, 2 AND 3 RADIOACTIVE EFFLUENT RELEASE REPORT
January Through December 2005

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

	Units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Est. Total Error, %
A. FISSION & ACTIVATION PRODUCTS						
1. Total Release (not including H-3, gases, alpha)	Ci	5.80E-04	<LLD	1.35E-06	5.41E-03	17.4%
2. Average Diluted Conc. During Period	µCi/ml	4.55E-09	<LLD	7.75E-10	3.38E-08	
3. Percent of Technical Specification Limit	%	*	*	*	*	
B. TRITIUM						
1. Total Release	Ci	4.67E+00	<LLD	<LLD	7.01E+00	1.75%
2. Average Diluted Conc. During Release	µCi/ml	3.67E-05	<LLD	<LLD	4.38E-05	
3. Percent of Technical Specification Limit	%	*	*	*	*	
C. DISSOLVED AND ENTRAINED GASES						
1. Total Release	Ci	<LLD	<LLD	<LLD	<LLD	20.3%
2. Average Diluted Conc. During Period	µCi/ml	<LLD	<LLD	<LLD	<LLD	
3. Percent of Technical Specification Limit	%	*	*	*	*	
D. GROSS ALPHA ACTIVITY						
1. Total Release	Ci	<LLD	<LLD	<LLD	<LLD	20.1%
E. VOLUME OF WASTE RELEASED (prior to dilution)	Liters	1.03E+06	2.63E+05	2.14E+05	1.16E+06	1.00%
F. VOLUME OF DILUTION WATER USED DURING PERIOD	Liters	1.26E+08	1.88E+06	1.53E+06	1.59E+08	5.00%

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

Table 3.1-1

MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES

DRESDEN NUCLEAR POWER STATION
UNITS 1, 2 AND 3 RADIOACTIVE EFFLUENT RELEASE REPORT
January Through December 2005

DOCKET NUMBER: 50-010

RADIOLOGICAL IMPACT ON MAN*

UNIT 1

1. Airborne Releases

	Maximum Doses from Airborne Releases					Yearly Obj.	Annual Dose
	Quarterly Obj.	1st QTR	2nd QTR	3rd QTR	4th QTR		
Gamma Air (mrad)	5.0 mrad	0.00E+00 (e)	0.00E+00 (e)	0.00E+00 (e)	0.00E+00 (e)	10.0 mrad	0.00E+00 (e)
Beta Air (mrad)	10.0 mrad	0.00E+00 (e)	0.00E+00 (e)	0.00E+00 (e)	0.00E+00 (e)	20.0 mrad	0.00E+00 (e)
Total Body (mrem)	2.5 mrem	0.00E+00 (e)	0.00E+00 (e)	0.00E+00 (e)	0.00E+00 (e)	5.0 mrem	0.00E+00 (e)
Skin (mrem)	7.5 mrem	0.00E+00 (e)	0.00E+00 (e)	0.00E+00 (e)	0.00E+00 (e)	15.0 mrem	0.00E+00 (e)
Organ (mrem)	7.5 mrem	3.77E-06 (t)	1.83E-06 (c)	9.08E-06 (c)	7.90E-04 (i,c)	15.0 mrem	8.00E-04 (c)
Critical Organ		Lung	Liver	Liver	Liver (i) Bone (c)		Liver

UNIT 2

1. Airborne Releases

	Maximum Doses from Airborne Releases					Yearly Obj.	Annual Dose
	Quarterly Obj.	1st QTR	2nd QTR	3rd QTR	4th QTR		
Gamma Air (mrad)	5.0 mrad	1.67E-04 (e)	1.41E-04 (e)	1.10e-04 (e)	7.24E-05 (e)	10.0 mrad	4.91E-04 (e)
Beta Air (mrad)	10.0 mrad	1.01E-05 (e)	8.96E-06 (e)	6.74E-06 (e)	4.64E-06 (e)	20.0 mrad	3.05E-05 (e)
Total Body (mrem)	2.5 mrem	1.26E-04 (e)	1.06e-04 (e)	8.33E-05 (e)	5.47E-05 (e)	5.0 mrem	3.70E-04 (e)
Skin (mrem)	7.5 mrem	1.38E-04 (e)	1.17e-04 (e)	9.11E-05 (e)	5.99E-05 (e)	15.0 mrem	4.05E-04 (e)
Organ (mrem)	7.5 mrem	3.48E-04 (c)	2.23E-03 (c)	4.86E-03 (c)	2.50E-03 (c)	15.0 mrem	9.94E-03 (c)
Critical Organ		Lung	Thyroid	Thyroid	Thyroid		Thyroid

* The doses reported include abnormal and unmonitored releases. These doses are the highest among the four analyzed receptors as described in parentheses [(i)=infant, (c)=child, (t)=teenager, (a)=adult, (e)=every receptor has the same value].

Table 3.1-1 (continued)

MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES

DRESDEN NUCLEAR POWER STATION
UNITS 1, 2 AND 3 RADIOACTIVE EFFLUENT RELEASE REPORT
January Through December 2005

DOCKET NUMBER: 50-010

RADIOLOGICAL IMPACT ON MAN*

UNIT 3

1. Airborne Releases

	Maximum Doses from Airborne Releases					Yearly Obj.	Annual Dose
	Quarterly Obj.	1st QTR	2nd QTR	3rd QTR	4th QTR		
Gamma Air (mrad)	5.0 mrad	3.21E-04 (e)	2.96E-04 (e)	2.67E-04 (e)	1.37E-04 (e)	10.0 mrad	1.02E-03 (e)
Beta Air (mrad)	10.0 mrad	1.82E-05 (e)	1.68E-05 (e)	1.45E-05 (e)	8.24E-06 (e)	20.0 mrad	5.77E-05 (e)
Total Body (mrem)	2.5 mrem	2.42E-04 (e)	2.23E-04 (e)	2.01E-04 (e)	1.03E-04 (e)	5.0 mrem	7.70E-04 (e)
Skin (mrem)	7.5 mrem	2.64E-04 (e)	2.43E-04 (e)	2.19E-04 (e)	1.13E-04 (e)	15.0 mrem	8.38E-04 (e)
Organ (mrem)	7.5 mrem	2.86E-04 (c)	3.26E-03 (c)	3.53E-03 (c)	1.49E-03 (c)	15.0 mrem	8.56E-03 (c)
Critical Organ		Lung	Thyroid	Thyroid	Thyroid		Thyroid

* The doses reported include abnormal and unmonitored releases. These doses are the highest among the four analyzed receptors as described in parentheses [(i)=infant, (c)=child, (t)=teenager, (a)=adult, (e)=every receptor has the same value].

Table 3.2-1

MAXIMUM DOSES RESULTING FROM LIQUID EFFLUENTS

DRESDEN NUCLEAR POWER STATION
UNITS 1, 2 AND 3 RADIOACTIVE EFFLUENT RELEASE REPORT
January Through December 2005

RADIOLOGICAL IMPACT ON MAN*

UNIT 1

1. Liquid Releases

	Maximum Doses from Aquatic Effluents					Yearly Obj.	Annual Dose
	Quarterly Obj.	1st QTR	2nd QTR	3rd QTR	4th QTR		
Total Body (mrem)	1.5 mrem	None	None	None	None	3.0 mrem	None
Organ (mrem)	5.0 mrem	None	None	None	None	10.0 mrem	None
Critical Organ		None	None	None	None		None

UNIT 2

2. Liquid Releases

	Maximum Doses from Aquatic Effluents					Yearly Obj.	Annual Dose
	Quarterly Obj.	1st QTR	2nd QTR	3rd QTR	4th QTR		
Total Body (mrem)	1.5 mrem	5.98E-05 (c)	0.00E+00 (e)	1.30E-09 (c)	3.04E-05 (c)	3.0 mrem	9.01E-05 (c)
Organ (mrem)	5.0 mrem	4.67E-04 (a)	0.00E+00 (e)	1.39E-08 (a)	4.63E-05 (a)	10.0 mrem	5.14E-04 (a)
Critical Organ		GI_LLI	None	GI_LLI	GI_LLI		GI_LLI

UNIT 3

3. Liquid Releases

	Maximum Doses from Aquatic Effluents					Yearly Obj.	Annual Dose
	Quarterly Obj.	1st QTR	2nd QTR	3rd QTR	4th QTR		
Total Body (mrem)	1.5 mrem	9.66E-05 (c)	0.00E+00 (e)	0.00E+00 (e)	4.32E-05 (c)	3.0 mrem	1.40E-04 (c)
Organ (mrem)	5.0 mrem	7.99E-04 (a)	0.00E+00 (e)	0.00E+00 (e)	5.61E-05 (a)	10.0 mrem	8.55E-04 (a)
Critical Organ		GI_LLI	None	None	GI_LLI		GI_LLI

* The doses reported include abnormal and unmonitored releases. These doses are the highest among the four analyzed receptors as described in parentheses [(i)=infant, (c)=child, (t)=teenager, (a)=adult, (e)=every receptor has the same value].

Table 3.3-1

10 CFR 20 COMPLIANCE ASSESSMENT

DRESDEN STATION UNIT ONE

PERIOD OF ASSESSMENT 01/01/05 TO 12/31/05

CALCULATED 03/20/06

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

Total Effective Dose Equivalent,	mrem/yr	7.93E-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	3.70E-06	1.15E-06	8.00E-06	7.83E-04	0.00

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 3.3-1 (continued)

10 CFR 20 COMPLIANCE ASSESSMENT

DRESDEN STATION UNIT ONE

PERIOD OF ASSESSMENT 01/01/05 TO 12/31/05

CALCULATED 03/20/06

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

		Dose (mrem)	Limit (mrem)	% of Limit
Whole Body	Plume	0.00E+00		
(DDE)	Skyshine	0.00E+00		
	Ground	7.82E-04		
	Total	7.82E-04	25.0	0.00
Organ Dose	Thyroid	9.52E-06	75.0	0.00
(CDE)	Gonads	1.07E-05	25.0	0.00
	Breast	9.46E-06	25.0	0.00
	Lung	1.01E-05	25.0	0.00
	Marrow	1.00E-05	25.0	0.00
	Bone	9.56E-06	25.0	0.00
	Remainder	1.16E-05	25.0	0.00
	CEDE	1.06E-05		
	TEDE	7.93E-04	100.0	0.00

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 3.3-1 (continued)

10 CFR 20 COMPLIANCE ASSESSMENT

DRESDEN STATION UNIT TWO

PERIOD OF ASSESSMENT 01/01/05 TO 12/31/05

CALCULATED 03/20/06

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

Total Effective Dose Equivalent, mrem/yr		3.50E+00
10 CFR 20.1301 (a)(1) limit	mrem/yr	100.0
	% of limit	3.50

Compliance Summary - 10CFR20

	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	% of Limit
TEDE	1.01E+00	7.72E-01	8.96E-01	8.19E-01	3.50

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 3.3-1 (continued)

10 CFR 20 COMPLIANCE ASSESSMENT

DRESDEN STATION UNIT TWO

PERIOD OF ASSESSMENT 01/01/05 TO 12/31/05

CALCULATED 03/20/06

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

		Dose (mrem)	Limit (mrem)	% of Limit
Whole Body	Plume	3.70E-04		
(DDE)	Skyshine	3.49E+00		
	Ground	8.48E-04		
	Total	3.49E+00	25.0	13.96
Organ Dose	Thyroid	4.05E-03	75.0	0.01
(CDE)	Gonads	3.91E-03	25.0	0.02
	Breast	3.81E-03	25.0	0.02
	Lung	3.83E-03	25.0	0.02
	Marrow	3.85E-03	25.0	0.02
	Bone	3.84E-03	25.0	0.02
	Remainder	4.01E-03	25.0	0.02
	CEDE	3.91E-03		
	TEDE	3.50E+00	100.0	3.50

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 3.3-1 (continued)

10 CFR 20 COMPLIANCE ASSESSMENT

DRESDEN STATION UNIT THREE

PERIOD OF ASSESSMENT 01/01/05 TO 12/31/05

CALCULATED 03/20/06

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

Total Effective Dose Equivalent, mrem/yr		3.71E+00
10 CFR 20.1301 (a)(1) limit	mrem/yr	100.0
	% of limit	3.71

Compliance Summary - 10CFR20

	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	% of Limit
TEDE	1.07E+00	7.18E-01	1.07E+00	8.49E-01	3.71

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 3.3-1 (continued)

10 CFR 20 COMPLIANCE ASSESSMENT

DRESDEN STATION UNIT THREE

PERIOD OF ASSESSMENT 01/01/05 TO 12/31/05

CALCULATED 03/20/06

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

		Dose (mrem)	Limit (mrem)	% of Limit
Whole Body	Plume	7.70E-04		
(DDE)	Skyshine	3.70E+00		
	Ground	8.33E-04		
	Total	3.71E+00	25.0	14.82
Organ Dose	Thyroid	3.65E-03	75.0	0.00
(CDE)	Gonads	3.58E-03	25.0	0.01
	Breast	3.42E-03	25.0	0.01
	Lung	3.43E-03	25.0	0.01
	Marrow	3.47E-03	25.0	0.01
	Bone	3.46E-03	25.0	0.01
	Remainder	3.73E-03	25.0	0.01
	CEDE	3.57E-03		
	TEDE	3.71E+00	100.0	3.71

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 3.4-1

MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES BASED ON CONCURRENT METEOROLOGICAL DATA

Dresden Station - Unit 1

MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES

2005

TYPE OF DOSE	FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER	ANNUAL
GAMMA AIR (mrad)	0.000E+00(N)	0.000E+00(N)	0.000E+00(N)	0.000E+00(N)	0.000E+00(N)
BETA AIR (mrad)	0.000E+00(N)	0.000E+00(N)	0.000E+00(N)	0.000E+00(N)	0.000E+00(N)
WHOLE BODY (mrem)	3.375E-06(SE)	4.067E-07(ENE)	2.448E-06(NNE)	2.872E-04(SSE)	2.916E-04(SSE)
SKIN (mrem)	3.974E-06(SE)	4.772E-07(ENE)	2.873E-06(NNE)	3.356E-04(SSE)	3.408E-04(SSE)
ORGAN (mrem)	1.517E-07(SSE)	1.950E-08(N)	2.052E-07(N)	6.330E-06(N)	6.331E-06(N)
CRITICAL PERSON	Teenager	Teenager	Teenager	Child	Child
CRITICAL ORGAN	Lung	Lung	Lung	Bone	Bone

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	0.00	10.0	0.00
BETA AIR (mrad)	10.0	0.00	20.0	0.00
WHOLE BODY (mrem)	2.5	0.01	5.0	0.01
SKIN (mrem)	7.5	0.00	15.0	0.00
ORGAN (mrem)	7.5	0.00	15.0	0.00
CRITICAL PERSON		Child		Child
CRITICAL ORGAN		Bone		Bone

Calculation used release data from the following:
- Unit 1 - Ground
- Unit 1 - Vent
- Unit 1 - Chimney

Table 3.4-1 (continued)

MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES BASED ON CONCURRENT METEOROLOGICAL DATA

Dresden Station - Unit 2

MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES

2005

TYPE OF DOSE	FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER	ANNUAL
GAMMA AIR (mrad)	3.380E-04(SE)	2.630E-04(N)	2.750E-04(N)	1.310E-04(E)	9.340E-04(N)
BETA AIR (mrad)	5.260E-05(SE)	3.910E-05(W)	3.000E-05(WSW)	1.970E-05(E)	1.047E-04(WSW)
WHOLE BODY (mrem)	3.537E-04(SE)	1.182E-04(ENE)	1.447E-04(NNE)	1.196E-04(SSE)	6.801E-04(SE)
SKIN (mrem)	4.397E-04(SE)	1.588E-04(ENE)	1.875E-04(NNE)	1.454E-04(SSE)	8.533E-04(SE)
ORGAN (mrem)	1.809E-05(SSE)	2.425E-05(N)	3.002E-05(N)	4.820E-05(N)	1.154E-04(N)
CRITICAL PERSON	Teenager	Teenager	Teenager	Teenager	Teenager
CRITICAL ORGAN	Lung	Lung	Lung	Lung	Lung

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	0.01	10.0	0.01
BETA AIR (mrad)	10.0	0.00	20.0	0.00
WHOLE BODY (mrem)	2.5	0.01	5.0	0.01
SKIN (mrem)	7.5	0.01	15.0	0.01
ORGAN (mrem)	7.5	0.00	15.0	0.00
CRITICAL PERSON		Teenager		Teenager
CRITICAL ORGAN		Lung		Lung

Calculation used release data from the following:
- Unit 2 - Ground
- Unit 2 - Vent
- Unit 2 - Chimney

Table 3.4-1 (continued)

MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES BASED ON CONCURRENT METEOROLOGICAL DATA

Dresden Station - Unit 3

MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES

2005

TYPE OF DOSE	FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER	ANNUAL
GAMMA AIR (mrad)	6.450E-04(SE)	5.390E-04(N)	6.450E-04(N)	2.450E-04(E)	1.936E-03(N)
BETA AIR (mrad)	9.340E-05(SE)	6.970E-05(W)	5.870E-05(WSW)	3.380E-05(E)	1.903E-04(WSW)
WHOLE BODY (mrem)	5.252E-04(SE)	2.286E-04(ENE)	2.764E-04(NNE)	2.238E-04(SSE)	1.132E-03(SE)
SKIN (mrem)	6.569E-04(SE)	3.028E-04(ENE)	3.579E-04(NNE)	2.710E-04(SSE)	1.420E-03(SE)
ORGAN (mrem)	1.269E-05(SSE)	2.348E-05(N)	2.189E-05(N)	6.629E-05(N)	1.208E-04(N)
CRITICAL PERSON	Teenager	Teenager	Teenager	Teenager	Teenager
CRITICAL ORGAN	Lung	Lung	Lung	Lung	Lung

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	0.01	10.0	0.02
BETA AIR (mrad)	10.0	0.00	20.0	0.00
WHOLE BODY (mrem)	2.5	0.02	5.0	0.02
SKIN (mrem)	7.5	0.01	15.0	0.01
ORGAN (mrem)	7.5	0.00	15.0	0.00
CRITICAL PERSON		Teenager		Teenager
CRITICAL ORGAN		Lung		Lung

Calculation used release data from the following:
- Unit 3 - Ground
- Unit 3 - Vent
- Unit 3 - Chimney

Data Recovery (priority parameters) 99.6%

APPENDIX G

METEOROLOGICAL DATA

Dresden Nuclear Station

Period of Record: January - March 2005
Stability Class - Extremely Unstable - 150Ft-35Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	3	5	0	0	0	8
NNE	0	5	2	0	0	0	7
NE	0	5	8	0	0	0	13
ENE	0	7	7	0	0	0	14
E	0	0	6	2	0	0	8
ESE	0	0	2	1	0	0	3
SE	0	0	1	0	0	0	1
SSE	0	0	0	1	0	0	1
S	0	0	0	0	1	0	1
SSW	0	0	0	1	0	0	1
SW	0	0	0	0	0	0	0
WSW	0	0	5	5	0	0	10
W	0	2	5	5	0	0	12
WNW	0	6	14	7	0	0	27
NW	0	8	27	7	0	0	42
NNW	0	3	23	1	0	0	27
Variable	0	0	0	0	0	0	0
Total	0	39	105	30	1	0	175

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 Station

Period of Record: January - March 2005
Stability Class - Moderately Unstable - 150Ft-35Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	3	1	0	0	0	4
NNE	0	3	0	0	0	0	3
NE	0	1	1	0	0	0	2
ENE	0	2	1	0	0	0	3
E	0	3	1	0	0	0	4
ESE	0	0	3	2	0	0	5
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	1	0	0	4	0	5
SSW	0	1	1	0	0	0	2
SW	0	0	1	0	0	0	1
WSW	0	1	3	0	0	0	4
W	0	0	3	2	0	0	5
WNW	0	2	1	0	0	0	3
NW	0	2	8	1	0	0	11
NNW	0	5	1	0	0	0	6
Variable	0	0	0	0	0	0	0
Total	0	24	25	5	4	0	58

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 Station

Period of Record: January - March 2005
Stability Class - Slightly Unstable - 150Ft-35Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	0	2	1	0	0	3
NNE	0	1	0	0	0	0	1
NE	0	3	0	0	0	0	3
ENE	1	3	1	0	0	0	5
E	0	2	2	0	0	0	4
ESE	0	1	5	0	0	0	6
SE	0	0	1	0	0	0	1
SSE	0	1	0	2	1	0	4
S	0	0	1	1	1	0	3
SSW	0	2	1	1	0	0	4
SW	0	0	1	0	0	0	1
WSW	0	4	1	1	0	0	6
W	1	3	4	1	0	0	9
WNW	0	2	2	2	0	0	6
NW	0	5	4	4	0	0	13
NNW	0	6	6	0	0	0	12
Variable	0	0	0	0	0	0	0
Total	2	33	31	13	2	0	81

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 Station

Period of Record: January - March 2005
Stability Class - Neutral - 150Ft-35Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	7	26	18	5	0	0	56
NNE	4	49	9	0	0	0	62
NE	3	36	46	15	0	0	100
ENE	2	33	29	0	0	0	64
E	4	31	30	0	0	0	65
ESE	3	14	46	23	0	0	86
SE	2	2	8	8	0	0	20
SSE	0	5	13	8	1	0	27
S	0	20	30	11	9	2	72
SSW	8	10	23	6	2	0	49
SW	2	8	7	9	1	0	27
WSW	2	13	8	6	2	0	31
W	3	18	18	13	2	0	54
WNW	6	19	26	11	0	0	62
NW	1	57	62	14	0	0	134
NNW	2	32	50	8	0	0	92
Variable	0	0	0	0	0	0	0
Total	49	373	423	137	17	2	1001

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 Station

Period of Record: January - March 2005
Stability Class - Slightly Stable - 150Ft-35Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	13	17	4	0	0	0	34
NNE	7	18	0	0	0	0	25
NE	8	15	4	0	0	0	27
ENE	6	16	5	0	0	0	27
E	8	23	3	0	0	0	34
ESE	5	12	10	0	0	0	27
SE	5	6	4	5	0	0	20
SSE	4	26	19	12	0	0	61
S	8	14	14	7	7	0	50
SSW	5	11	7	8	2	1	34
SW	3	18	7	9	1	0	38
WSW	1	9	5	7	0	0	22
W	6	14	6	2	0	0	28
WNW	5	20	12	2	0	0	39
NW	6	38	9	1	0	0	54
NNW	12	38	18	4	0	0	72
Variable	0	0	0	0	0	0	0
Total	102	295	127	57	10	1	592

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

Dresden Nuclear Station

Period of Record: January - March 2005
Stability Class - Moderately Stable - 150Ft-35Ft Delta-T (F)
Winds Measured at 35 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	4	1	0	0	0	0	5
NE	0	0	0	0	0	0	0
ENE	2	0	0	0	0	0	2
E	2	1	0	0	0	0	3
ESE	1	8	0	0	0	0	9
SE	2	4	0	0	0	0	6
SSE	3	2	0	0	0	0	5
S	3	7	1	0	0	0	11
SSW	4	9	0	0	0	0	13
SW	1	12	9	0	0	0	22
WSW	7	8	1	0	0	0	16
W	2	4	0	0	0	0	6
WNW	5	2	0	0	0	0	7
NW	4	0	0	0	0	0	4
NNW	9	5	0	0	0	0	14
Variable	0	0	0	0	0	0	0
Total	49	63	11	0	0	0	123

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 Station

Period of Record: January - March 2005
Stability Class - Extremely Stable - 150Ft-35Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	2	0	0	0	0	0	2
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	1	1	0	0	0	0	2
ESE	1	3	0	0	0	0	4
SE	2	0	0	0	0	0	2
SSE	2	0	0	0	0	0	2
S	0	0	0	0	0	0	0
SSW	2	0	0	0	0	0	2
SW	1	4	0	0	0	0	5
WSW	4	1	0	0	0	0	5
W	2	0	0	0	0	0	2
WNW	3	0	0	0	0	0	3
NW	2	0	0	0	0	0	2
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	22	9	0	0	0	0	31

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 Station

Period of Record: January - March 2005
Stability Class - Extremely Unstable - 300Ft-35Ft Delta-T (F)
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	1	0	0	0	1
NNE	0	0	0	1	0	0	1
NE	0	0	2	0	0	0	2
ENE	0	0	1	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	1	1
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	0	2	0	0	2
WNW	0	0	1	2	1	2	6
NW	0	0	0	7	0	0	7
NNW	0	0	0	5	0	0	5
Variable	0	0	0	0	0	0	0
Total	0	0	5	17	1	3	26

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 Station

Period of Record: January - March 2005
Stability Class - Moderately Unstable - 300Ft-35Ft Delta-T (F)
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	1	0	0	1
NNE	0	1	1	0	0	0	2
NE	0	0	3	1	0	0	4
ENE	0	1	1	1	0	0	3
E	0	0	0	2	1	0	3
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	1	0	1
S	0	0	0	0	1	3	4
SSW	0	0	0	1	0	0	1
SW	0	0	0	0	0	0	0
WSW	0	1	0	2	1	0	4
W	0	0	2	1	0	0	3
WNW	0	0	1	1	0	2	4
NW	0	1	3	3	0	3	10
NNW	0	0	2	5	1	0	8
Variable	0	0	0	0	0	0	0
Total	0	4	13	18	5	8	48

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 Station

Period of Record: January - March 2005
Stability Class - Slightly Unstable - 300Ft-35Ft Delta-T (F)
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	0	2	1	0	4
NNE	0	2	0	0	0	0	2
NE	0	3	1	2	0	0	6
ENE	0	4	3	1	0	0	8
E	0	0	5	1	1	0	7
ESE	0	0	1	2	1	0	4
SE	0	0	1	0	0	0	1
SSE	0	1	0	0	1	0	2
S	0	0	0	0	0	1	1
SSW	0	0	1	0	0	0	1
SW	0	0	0	2	0	0	2
WSW	0	1	2	5	1	0	9
W	0	1	6	4	1	1	13
WNW	0	1	6	1	3	0	11
NW	0	0	12	8	1	3	24
NNW	0	1	3	4	1	0	9
Variable	0	0	0	0	0	0	0
Total	0	15	41	32	11	5	104

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 Station

Period of Record: January - March 2005
Stability Class - Neutral - 300Ft-35Ft Delta-T (F)
Winds Measured at 300 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	2	9	19	17	13	5	65
NNE	0	7	39	31	1	0	78
NE	2	9	25	37	10	0	83
ENE	2	17	28	20	0	0	67
E	1	13	33	29	2	0	78
ESE	1	10	15	43	20	2	91
SE	0	4	1	13	8	0	26
SSE	0	1	11	10	5	6	33
S	1	9	24	26	10	10	80
SSW	0	11	18	19	6	3	57
SW	2	6	7	8	6	4	33
WSW	1	9	10	9	5	4	38
W	0	10	18	22	14	11	75
WNW	3	11	27	29	18	4	92
NW	1	7	64	66	42	4	184
NNW	0	11	41	51	18	4	125
Variable	0	0	0	0	0	0	0
Total	16	144	380	430	178	57	1205

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 78
Hours of missing stability measurements in all stability classes: 2

Dresden Nuclear Station

Period of Record: January - March 2005
Stability Class - Slightly Stable - 300Ft-35Ft Delta-T (F)
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	1	17	10	2	0	31
NNE	1	2	15	10	0	0	28
NE	0	8	15	6	0	0	29
ENE	3	20	9	2	0	0	34
E	2	12	6	2	0	0	22
ESE	1	6	10	5	6	0	28
SE	0	3	14	4	5	0	26
SSE	3	5	11	16	17	3	55
S	2	6	9	21	10	14	62
SSW	1	4	2	9	10	6	32
SW	0	3	10	13	9	7	42
WSW	1	1	6	9	13	5	35
W	2	2	7	11	3	0	25
WNW	0	1	6	3	3	0	13
NW	0	3	18	26	0	0	47
NNW	0	3	13	17	5	5	43
Variable	0	0	0	0	0	0	0
Total	17	80	168	164	83	40	552

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 Station

Period of Record: January - March 2005
Stability Class - Moderately Stable - 300Ft-35Ft Delta-T (F)
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	2	0	3	1	0	6
NNE	0	2	7	1	0	0	10
NE	1	1	0	1	0	0	3
ENE	2	2	0	0	0	0	4
E	1	4	0	0	0	0	5
ESE	2	0	0	1	0	0	3
SE	1	4	1	1	0	0	7
SSE	0	4	3	5	0	0	12
S	2	3	4	4	0	0	13
SSW	0	1	2	8	0	0	11
SW	0	0	1	8	3	0	12
WSW	0	0	3	9	2	0	14
W	0	0	3	3	0	0	6
WNW	0	2	7	1	0	0	10
NW	0	4	4	1	0	0	9
NNW	1	1	1	6	0	0	9
Variable	0	0	0	0	0	0	0
Total	10	30	36	52	6	0	134

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 Station

Period of Record: January - March 2005
Stability Class - Extremely Stable - 300Ft-35Ft Delta-T (F)
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	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	1	1	2	0	0	4
SSW	0	2	0	0	0	0	2
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	1	1	0	0	2
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	3	2	3	0	0	8

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 Station

Period of Record: April - June 2005
Stability Class - Extremely Unstable - 150Ft-35Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	1	6	12	2	0	0	21
NNE	0	11	1	4	0	0	16
NE	0	28	11	5	0	0	44
ENE	0	18	10	0	0	0	28
E	0	24	12	4	0	0	40
ESE	1	2	2	2	0	0	7
SE	0	3	1	2	0	0	6
SSE	0	8	3	2	0	0	13
S	1	10	20	6	6	0	43
SSW	0	13	6	2	0	0	21
SW	0	11	5	2	2	0	20
WSW	0	9	33	11	0	0	53
W	0	11	14	14	0	0	39
WNW	2	3	24	5	1	0	35
NW	0	7	13	7	0	0	27
NNW	1	9	9	7	0	0	26
Variable	0	0	0	0	0	0	0
Total	6	173	176	75	9	0	439

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 Station

Period of Record: April - June 2005
Stability Class - Moderately Unstable - 150Ft-35Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	0	1	0	0	0	1
NNE	0	0	1	1	0	0	2
NE	1	7	0	0	0	0	8
ENE	2	3	0	0	0	0	5
E	1	5	2	0	0	0	8
ESE	1	2	0	1	0	0	4
SE	0	0	2	1	0	0	3
SSE	0	1	2	1	0	0	4
S	1	4	2	1	0	0	8
SSW	1	4	1	4	0	0	10
SW	0	4	0	2	0	0	6
WSW	0	2	5	1	0	0	8
W	0	1	3	4	0	0	8
WNW	0	1	5	0	0	0	6
NW	0	0	0	0	0	0	0
NNW	0	2	0	2	0	0	4
Variable	0	0	0	0	0	0	0
Total	7	36	24	18	0	0	85

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 Station

Period of Record: April - June 2005
Stability Class - Slightly Unstable - 150Ft-35Ft Delta-T (F)
Winds Measured at 35 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	1	0	2	2	0	0	5
NE	1	3	3	0	0	0	7
ENE	1	3	0	0	0	0	4
E	1	6	2	2	0	0	11
ESE	1	6	3	4	0	0	14
SE	0	1	3	0	0	0	4
SSE	0	4	5	0	0	0	9
S	1	2	5	1	0	0	9
SSW	0	1	1	2	1	0	5
SW	0	2	3	4	0	0	9
WSW	0	4	2	1	0	0	7
W	0	0	2	2	0	0	4
WNW	0	0	2	2	0	0	4
NW	1	1	1	1	0	0	4
NNW	0	0	1	0	0	0	1
Variable	0	0	0	0	0	0	0
Total	7	34	36	21	1	0	99

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 Station

Period of Record: April - June 2005
Stability Class - Neutral - 150Ft-35Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	3	4	5	2	0	0	14
NNE	1	9	15	7	0	0	32
NE	4	21	26	2	0	0	53
ENE	2	32	6	0	0	0	40
E	5	22	26	10	0	0	63
ESE	3	14	9	11	0	0	37
SE	5	10	22	0	0	0	37
SSE	2	19	15	3	0	0	39
S	3	11	13	6	2	0	35
SSW	4	12	20	8	0	0	44
SW	3	10	13	2	0	0	28
WSW	1	9	12	7	0	0	29
W	3	7	27	6	0	0	43
WNW	0	7	27	8	0	0	42
NW	1	6	9	0	0	0	16
NNW	2	3	8	1	0	0	14
Variable	0	0	0	0	0	0	0
Total	42	196	253	73	2	0	566

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 Station

Period of Record: April - June 2005
Stability Class - Slightly Stable - 150Ft-35Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	9	4	4	0	0	0	17
NNE	14	15	10	0	0	0	39
NE	5	33	7	0	0	0	45
ENE	7	37	0	0	0	0	44
E	9	42	9	5	0	0	65
ESE	1	38	16	12	0	0	67
SE	4	18	15	1	0	0	38
SSE	6	31	15	8	0	0	60
S	6	35	29	8	0	0	78
SSW	6	17	7	8	0	0	38
SW	6	17	7	2	0	0	32
WSW	2	7	15	1	0	0	25
W	4	18	21	0	0	0	43
WNW	5	25	10	2	0	0	42
NW	9	11	6	0	0	0	26
NNW	6	3	4	0	0	0	13
Variable	0	0	0	0	0	0	0
Total	99	351	175	47	0	0	672

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 Station

Period of Record: April - June 2005
Stability Class - Moderately Stable - 150Ft-35Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	9	3	0	0	0	0	12
NNE	4	5	0	0	0	0	9
NE	3	1	0	0	0	0	4
ENE	1	2	0	0	0	0	3
E	4	12	1	0	0	0	17
ESE	4	15	2	0	0	0	21
SE	5	9	1	0	0	0	15
SSE	5	6	0	0	0	0	11
S	6	11	0	0	0	0	17
SSW	4	10	2	0	0	0	16
SW	8	16	0	0	0	0	24
WSW	10	6	0	0	0	0	16
W	8	8	0	0	0	0	16
WNW	5	0	0	0	0	0	5
NW	11	0	0	0	0	0	11
NNW	11	0	0	0	0	0	11
Variable	0	0	0	0	0	0	0
Total	98	104	6	0	0	0	208

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 Station

Period of Record: April - June 2005
Stability Class - Extremely Stable - 150Ft-35Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	2	0	0	0	0	0	2
NNE	1	0	0	0	0	0	1
NE	0	0	0	0	0	0	0
ENE	1	0	0	0	0	0	1
E	2	1	0	0	0	0	3
ESE	0	6	0	0	0	0	6
SE	3	0	1	0	0	0	4
SSE	1	0	0	0	0	0	1
S	6	1	0	0	0	0	7
SSW	8	5	0	0	0	0	13
SW	4	13	0	0	0	0	17
WSW	3	1	0	0	0	0	4
W	0	1	0	0	0	0	1
WNW	2	0	0	0	0	0	2
NW	6	0	0	0	0	0	6
NNW	3	0	0	0	0	0	3
Variable	0	0	0	0	0	0	0
Total	42	28	1	0	0	0	71

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 Station

Period of Record: April - June 2005
Stability Class - Extremely Unstable - 300Ft-35Ft Delta-T (F)
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	1	2	3	0	6
NNE	0	0	1	5	4	1	11
NE	0	2	6	2	3	0	13
ENE	0	2	5	0	0	0	7
E	0	0	4	3	1	0	8
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	1	0	0	0	0	1
S	0	0	1	0	0	0	1
SSW	0	1	0	2	0	0	3
SW	0	0	0	2	0	0	2
WSW	0	0	1	4	4	0	9
W	0	0	0	2	0	2	4
WNW	0	0	0	1	0	0	1
NW	0	0	1	4	4	2	11
NNW	0	0	2	0	1	0	3
Variable	0	0	0	0	0	0	0
Total	0	6	22	27	20	5	80

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: 1

Dresden Nuclear Station

Period of Record: April - June 2005
Stability Class - Moderately Unstable - 300Ft-35Ft Delta-T (F)
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	1	0	0	1
NNE	0	0	1	3	2	1	7
NE	0	0	4	3	0	0	7
ENE	0	5	5	0	0	0	10
E	0	3	7	1	1	0	12
ESE	0	1	0	0	1	0	2
SE	0	0	0	3	0	0	3
SSE	0	1	1	1	0	0	3
S	0	1	6	3	2	0	12
SSW	0	2	3	0	0	0	5
SW	0	2	4	0	0	0	6
WSW	0	5	0	9	1	1	16
W	1	0	1	3	2	0	7
WNW	0	0	2	7	3	1	13
NW	0	0	1	3	1	0	5
NNW	0	0	4	1	4	1	10
Variable	0	0	0	0	0	0	0
Total	1	20	39	38	17	4	119

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: 1

Dresden Nuclear Station

Period of Record: April - June 2005
Stability Class - Slightly Unstable - 300Ft-35Ft Delta-T (F)
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	3	0	0	3
NNE	0	0	2	0	3	2	7
NE	0	6	5	1	2	0	14
ENE	0	6	7	0	0	0	13
E	0	4	9	2	3	0	18
ESE	1	2	3	2	0	0	8
SE	0	2	2	2	0	0	6
SSE	0	1	3	6	0	0	10
S	0	3	6	4	2	2	17
SSW	0	1	0	1	3	0	5
SW	0	4	1	0	2	2	9
WSW	0	2	4	6	1	0	13
W	0	0	1	8	2	0	11
WNW	0	1	1	10	2	1	15
NW	0	1	2	4	3	0	10
NNW	0	0	1	0	4	0	5
Variable	0	0	0	0	0	0	0
Total	1	33	47	49	27	7	164

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: 1

Dresden Nuclear Station

Period of Record: April - June 2005
Stability Class - Neutral - 300Ft-35Ft Delta-T (F)
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	8	18	4	30
NNE	3	5	6	13	15	6	48
NE	1	6	22	22	15	0	66
ENE	3	27	27	8	0	0	65
E	5	16	37	20	9	11	98
ESE	2	9	14	10	11	7	53
SE	5	11	26	7	0	0	49
SSE	1	12	17	16	4	0	50
S	0	10	23	19	7	4	63
SSW	2	12	15	21	10	2	62
SW	0	11	8	12	6	0	37
WSW	1	8	13	19	9	6	56
W	0	7	9	27	24	3	70
WNW	0	3	4	31	16	8	62
NW	1	1	5	18	2	1	28
NNW	0	0	1	3	17	1	22
Variable	0	0	0	0	0	0	0
Total	24	138	227	254	163	53	859

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: 1

Dresden Nuclear Station

Period of Record: April - June 2005
Stability Class - Slightly Stable - 300Ft-35Ft Delta-T (F)
Winds Measured at 300 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	2	4	2	2	0	0	10
NNE	1	6	11	12	10	0	40
NE	2	8	16	19	2	0	47
ENE	4	11	23	4	0	0	42
E	2	4	17	20	2	1	46
ESE	0	1	5	20	10	0	36
SE	0	6	18	36	3	0	63
SSE	0	3	19	15	6	2	45
S	1	1	12	45	25	3	87
SSW	1	7	8	31	9	4	60
SW	0	7	7	19	8	1	42
WSW	0	3	7	15	7	1	33
W	1	6	8	25	6	0	46
WNW	1	1	11	15	6	0	34
NW	1	1	9	8	8	0	27
NNW	0	5	5	2	1	0	13
Variable	0	0	0	0	0	0	0
Total	16	74	178	288	103	12	671

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: 1

Dresden Nuclear Station

Period of Record: April - June 2005
Stability Class - Moderately Stable - 300Ft-35Ft Delta-T (F)
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	2	1	2	0	0	5
NNE	2	2	1	6	1	0	12
NE	0	4	5	5	1	0	15
ENE	2	1	2	1	0	0	6
E	0	5	3	0	2	0	10
ESE	0	0	3	7	4	0	14
SE	1	2	4	19	2	0	28
SSE	2	1	13	7	1	0	24
S	1	2	6	3	0	0	12
SSW	1	5	6	7	4	0	23
SW	0	4	4	13	0	0	21
WSW	1	3	8	13	0	0	25
W	2	1	3	2	1	0	9
WNW	1	1	5	11	2	0	20
NW	2	3	8	0	1	0	14
NNW	0	1	3	0	0	0	4
Variable	0	0	0	0	0	0	0
Total	15	37	75	96	19	0	242

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: 1

Dresden Nuclear Station

Period of Record: April - June 2005
Stability Class - Extremely Stable - 300Ft-35Ft Delta-T (F)
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	2	0	0	0	0	2
NE	0	0	2	0	0	0	2
ENE	0	1	0	0	0	0	1
E	0	1	0	0	0	0	1
ESE	0	0	0	0	0	0	0
SE	0	0	0	1	2	0	3
SSE	0	1	0	4	1	0	6
S	1	1	1	0	0	0	3
SSW	0	1	1	1	0	0	3
SW	0	1	3	3	1	0	8
WSW	0	2	5	4	0	0	11
W	0	1	0	0	0	0	1
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	1	0	0	0	1
Variable	0	0	0	0	0	0	0
Total	1	11	13	13	4	0	42

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: 1

Dresden Nuclear Station

Period of Record: July - September 2005
Stability Class - Extremely Unstable - 150Ft-35Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	1	15	0	0	0	0	16
NNE	1	12	5	0	0	0	18
NE	1	18	14	0	0	0	33
ENE	6	19	4	0	0	0	29
E	2	6	8	0	0	0	16
ESE	0	5	2	1	0	0	8
SE	0	7	4	0	0	0	11
SSE	0	7	5	0	0	0	12
S	1	6	9	1	0	0	17
SSW	0	11	21	7	0	0	39
SW	0	11	6	5	0	0	22
WSW	0	12	2	0	0	0	14
W	0	12	9	1	0	0	22
WNW	0	14	11	1	0	0	26
NW	1	21	5	0	0	0	27
NNW	2	24	1	0	0	0	27
Variable	0	0	0	0	0	0	0
Total	15	200	106	16	0	0	337

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 Station

Period of Record: July - September 2005
Stability Class - Moderately Unstable - 150Ft-35Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	2	3	0	0	0	0	5
NNE	0	1	1	0	0	0	2
NE	1	0	2	0	0	0	3
ENE	1	5	0	0	0	0	6
E	1	5	2	0	0	0	8
ESE	0	1	1	0	0	0	2
SE	0	3	2	0	0	0	5
SSE	0	3	0	0	0	0	3
S	0	4	3	0	0	0	7
SSW	0	0	7	1	0	0	8
SW	0	6	2	1	0	0	9
WSW	1	8	2	0	0	0	11
W	0	4	1	0	0	0	5
WNW	0	7	2	0	0	0	9
NW	1	5	1	0	0	0	7
NNW	2	3	1	0	0	0	6
Variable	0	0	0	0	0	0	0
Total	9	58	27	2	0	0	96

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 Station

Period of Record: July - September 2005
Stability Class - Slightly Unstable - 150Ft-35Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	2	0	0	0	0	0	2
NNE	2	1	0	0	0	0	3
NE	0	6	2	0	0	0	8
ENE	1	3	1	0	0	0	5
E	0	4	1	0	0	0	5
ESE	0	2	0	0	0	0	2
SE	0	3	0	0	0	0	3
SSE	0	5	0	0	0	0	5
S	0	1	4	0	0	0	5
SSW	1	4	4	1	0	0	10
SW	0	3	2	0	0	0	5
WSW	0	7	2	0	0	0	9
W	0	4	3	0	0	0	7
WNW	1	5	0	0	0	0	6
NW	1	2	0	0	0	0	3
NNW	0	4	0	0	0	0	4
Variable	0	0	0	0	0	0	0
Total	8	54	19	1	0	0	82

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 Station

Period of Record: July - September 2005
Stability Class - Neutral - 150Ft-35Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	9	4	1	0	0	0	14
NNE	4	14	2	0	0	0	20
NE	4	33	11	0	0	0	48
ENE	0	19	2	0	0	0	21
E	4	20	6	0	0	0	30
ESE	5	10	6	0	0	0	21
SE	11	9	4	0	0	0	24
SSE	5	18	13	0	0	0	36
S	7	18	18	1	0	0	44
SSW	3	18	18	5	0	0	44
SW	5	10	5	2	0	0	22
WSW	6	15	4	1	0	0	26
W	1	13	3	0	0	0	17
WNW	7	14	6	0	0	0	27
NW	8	13	6	0	0	0	27
NNW	8	9	0	0	0	0	17
Variable	0	0	0	0	0	0	0
Total	87	237	105	9	0	0	438

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 Station

Period of Record: July - September 2005
Stability Class - Slightly Stable - 150Ft-35Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	24	11	1	0	0	0	36
NNE	25	36	0	0	0	0	61
NE	15	34	6	0	0	0	55
ENE	14	38	2	0	0	0	54
E	9	53	4	0	0	0	66
ESE	12	27	4	0	0	0	43
SE	6	27	11	0	0	0	44
SSE	14	36	20	0	0	0	70
S	12	38	25	1	0	0	76
SSW	9	20	18	2	0	0	49
SW	9	9	6	1	0	0	25
WSW	10	11	2	0	0	0	23
W	17	16	4	0	0	0	37
WNW	14	26	0	0	0	0	40
NW	15	18	5	2	0	0	40
NNW	25	15	1	0	0	0	41
Variable	0	0	0	0	0	0	0
Total	230	415	109	6	0	0	760

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 Station

Period of Record: July - September 2005
Stability Class - Moderately Stable - 150Ft-35Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	17	0	0	0	0	0	17
NNE	13	0	0	0	0	0	13
NE	3	1	0	0	0	0	4
ENE	2	0	0	0	0	0	2
E	3	9	0	0	0	0	12
ESE	11	12	0	0	0	0	23
SE	8	13	3	0	0	0	24
SSE	7	27	1	0	0	0	35
S	18	16	1	0	0	0	35
SSW	14	11	0	0	0	0	25
SW	14	9	1	0	0	0	24
WSW	11	4	0	0	0	0	15
W	6	6	0	0	0	0	12
WNW	13	4	0	0	0	0	17
NW	28	0	0	0	0	0	28
NNW	30	0	0	0	0	0	30
Variable	0	0	0	0	0	0	0
Total	198	112	6	0	0	0	316

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 Station

Period of Record: July - September 2005
Stability Class - Extremely Stable - 150Ft-35Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	1	0	0	0	0	0	1
NNE	4	0	0	0	0	0	4
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	7	1	0	0	0	0	8
SE	1	4	0	0	0	0	5
SSE	2	2	0	0	0	0	4
S	7	4	0	0	0	0	11
SSW	8	2	0	0	0	0	10
SW	16	3	0	0	0	0	19
WSW	7	1	0	0	0	0	8
W	3	0	0	0	0	0	3
WNW	8	0	0	0	0	0	8
NW	19	2	0	0	0	0	21
NNW	9	0	0	0	0	0	9
Variable	0	0	0	0	0	0	0
Total	92	19	0	0	0	0	111

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 Station

Period of Record: July - September 2005
Stability Class - Extremely Unstable - 300Ft-35Ft Delta-T (F)
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	4	0	0	0	5
NNE	0	2	5	7	0	0	14
NE	0	2	2	5	0	0	9
ENE	0	2	0	0	0	0	2
E	0	0	1	2	0	0	3
ESE	0	0	0	0	0	0	0
SE	0	0	1	0	0	0	1
SSE	0	1	1	0	0	0	2
S	0	0	3	0	0	0	3
SSW	0	1	4	3	0	0	8
SW	0	1	0	3	0	0	4
WSW	0	0	2	1	0	0	3
W	0	2	3	4	0	0	9
WNW	0	1	0	3	0	0	4
NW	0	1	1	4	0	0	6
NNW	0	1	1	5	0	0	7
Variable	0	0	0	0	0	0	0
Total	0	15	28	37	0	0	80

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: 1

Dresden Nuclear Station

Period of Record: July - September 2005
Stability Class - Moderately Unstable - 300Ft-35Ft Delta-T (F)
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	6	0	0	0	9
NNE	0	1	2	1	0	0	4
NE	0	2	2	3	0	0	7
ENE	1	7	7	0	0	0	15
E	0	2	3	1	0	0	6
ESE	0	1	0	0	0	0	1
SE	0	1	3	0	0	0	4
SSE	0	1	2	0	0	0	3
S	0	3	3	0	0	0	6
SSW	0	3	0	6	2	0	11
SW	0	5	2	4	0	0	11
WSW	0	4	4	1	0	0	9
W	0	1	2	2	0	0	5
WNW	0	0	3	3	1	0	7
NW	0	2	6	1	0	0	9
NNW	0	3	5	2	0	0	10
Variable	0	0	0	0	0	0	0
Total	1	39	50	24	3	0	117

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: 1

Dresden Nuclear Station

Period of Record: July - September 2005
Stability Class - Slightly Unstable - 300Ft-35Ft Delta-T (F)
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	2	4	0	0	0	6
NNE	0	1	3	0	1	0	5
NE	1	3	3	1	0	0	8
ENE	1	5	5	1	0	0	12
E	0	4	6	1	0	0	11
ESE	0	5	2	0	1	0	8
SE	0	4	5	0	0	0	9
SSE	0	4	4	0	0	0	8
S	0	1	5	3	0	0	9
SSW	0	4	6	8	0	0	18
SW	0	0	2	2	2	0	6
WSW	0	6	2	1	1	0	10
W	0	6	3	2	0	0	11
WNW	0	8	7	5	0	0	20
NW	0	4	9	3	0	0	16
NNW	0	8	2	1	0	0	11
Variable	0	0	0	0	0	0	0
Total	2	65	68	28	5	0	168

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: 1

Dresden Nuclear Station

Period of Record: July - September 2005
Stability Class - Neutral - 300Ft-35Ft Delta-T (F)
Winds Measured at 300 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	2	6	8	9	2	0	27
NNE	1	7	5	23	7	0	43
NE	0	10	31	29	2	0	72
ENE	0	23	32	2	0	0	57
E	0	12	19	12	0	0	43
ESE	7	15	9	2	0	0	33
SE	2	13	7	5	0	0	27
SSE	3	21	17	11	0	0	52
S	3	10	21	25	0	0	59
SSW	3	16	28	16	4	0	67
SW	3	15	10	8	4	0	40
WSW	6	16	6	4	1	0	33
W	2	7	10	8	1	0	28
WNW	1	9	16	10	1	0	37
NW	3	18	14	10	2	3	50
NNW	1	13	10	10	0	1	35
Variable	0	0	0	0	0	0	0
Total	37	211	243	184	24	4	703

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: 1

Dresden Nuclear Station

Period of Record: July - September 2005
Stability Class - Slightly Stable - 300Ft-35Ft Delta-T (F)
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	4	14	18	0	0	37
NNE	0	6	18	34	1	0	59
NE	0	5	21	10	0	0	36
ENE	1	29	17	2	0	0	49
E	1	7	28	16	6	0	58
ESE	0	7	19	16	2	0	44
SE	0	8	21	23	0	0	52
SSE	0	11	23	35	3	0	72
S	1	10	29	37	17	0	94
SSW	0	8	23	25	11	0	67
SW	1	4	7	7	6	1	26
WSW	0	4	9	9	1	0	23
W	2	10	13	10	0	0	35
WNW	0	7	9	14	0	0	30
NW	0	5	11	11	0	0	27
NNW	2	5	9	9	1	0	26
Variable	0	0	0	0	0	0	0
Total	9	130	271	276	48	1	735

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: 1

Dresden Nuclear Station

Period of Record: July - September 2005
Stability Class - Moderately Stable - 300Ft-35Ft Delta-T (F)
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	4	9	2	1	0	17
NNE	2	3	10	10	0	0	25
NE	0	10	7	2	0	0	19
ENE	0	5	2	0	0	0	7
E	2	6	8	1	3	0	20
ESE	0	1	5	4	1	0	11
SE	0	5	6	8	1	0	20
SSE	1	4	17	13	2	0	37
S	2	6	19	17	4	0	48
SSW	2	2	10	10	4	0	28
SW	0	5	14	9	0	0	28
WSW	3	3	7	5	0	0	18
W	1	3	6	6	0	0	16
WNW	0	1	6	4	0	0	11
NW	2	0	7	9	0	0	18
NNW	2	1	1	2	2	0	8
Variable	0	0	0	0	0	0	0
Total	18	59	134	102	18	0	331

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 9
Hours of missing stability measurements in all stability classes: 1

Dresden Nuclear Station

Period of Record: July - September 2005
Stability Class - Extremely Stable - 300Ft-35Ft Delta-T (F)
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	0	3	1	0	5
NNE	0	3	1	2	0	0	6
NE	0	0	0	1	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	1	0	0	0	1
SSE	0	0	2	0	0	0	2
S	0	2	1	2	2	0	7
SSW	0	2	0	3	2	0	7
SW	0	0	1	10	0	0	11
WSW	0	0	1	0	0	0	1
W	0	0	1	5	0	0	6
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	2	0	2
NNW	0	0	0	3	2	0	5
Variable	0	0	0	0	0	0	0
Total	0	8	8	29	9	0	54

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: 1

Dresden Nuclear Station

Period of Record: October - December2005
Stability Class - Extremely Unstable - 150Ft-35Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	7	5	0	0	0	12
NNE	1	2	3	0	0	0	6
NE	1	11	10	0	0	0	22
ENE	1	4	4	0	0	0	9
E	0	1	5	0	0	0	6
ESE	0	0	0	3	0	0	3
SE	0	0	1	1	0	0	2
SSE	0	0	1	0	0	0	1
S	0	0	1	2	0	0	3
SSW	0	2	5	10	0	0	17
SW	0	3	4	4	1	0	12
WSW	1	5	7	2	2	0	17
W	0	6	15	2	2	0	25
WNW	0	3	23	1	0	0	27
NW	0	6	15	3	1	0	25
NNW	1	12	7	0	1	0	21
Variable	0	0	0	0	0	0	0
Total	5	62	106	28	7	0	208

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 Station

Period of Record: October - December2005
Stability Class - Moderately Unstable - 150Ft-35Ft Delta-T (F)
Winds Measured at 35 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	0	0	0	0	1
NE	0	1	1	0	0	0	2
ENE	0	3	0	0	0	0	3
E	0	0	1	0	0	0	1
ESE	0	0	1	0	0	0	1
SE	0	0	0	0	0	0	0
SSE	0	1	2	0	0	0	3
S	0	3	2	0	0	0	5
SSW	0	2	4	4	0	0	10
SW	0	1	2	0	0	0	3
WSW	0	0	4	0	0	0	4
W	1	1	3	0	1	0	6
WNW	0	2	2	3	0	0	7
NW	0	1	2	1	0	0	4
NNW	0	5	4	0	0	0	9
Variable	0	0	0	0	0	0	0
Total	1	22	30	8	1	0	62

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 Station

Period of Record: October - December2005
Stability Class - Slightly Unstable - 150Ft-35Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	2	0	0	0	0	2
NNE	0	4	0	0	0	0	4
NE	0	1	0	0	0	0	1
ENE	0	0	0	0	0	0	0
E	1	2	2	0	0	0	5
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	2	2	0	0	0	4
S	2	1	2	2	0	0	7
SSW	1	0	2	3	0	0	6
SW	0	0	4	2	0	0	6
WSW	0	2	1	2	0	0	5
W	0	5	3	3	0	0	11
WNW	0	4	2	0	0	0	6
NW	0	2	1	0	0	0	3
NNW	0	1	0	0	0	0	1
Variable	0	0	0	0	0	0	0
Total	4	26	19	12	0	0	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: 0

Dresden Nuclear Station

Period of Record: October - December2005
Stability Class - Neutral - 150Ft-35Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	2	8	4	0	0	0	14
NNE	2	9	2	0	0	0	13
NE	2	21	5	0	0	0	28
ENE	2	17	7	0	0	0	26
E	5	25	29	0	0	0	59
ESE	2	14	18	4	0	0	38
SE	1	4	13	8	0	0	26
SSE	1	5	15	3	0	0	24
S	1	10	17	16	5	0	49
SSW	0	7	16	24	2	0	49
SW	2	8	20	17	3	0	50
WSW	4	14	11	11	9	0	49
W	3	21	40	15	13	0	92
WNW	1	25	25	18	0	0	69
NW	3	21	22	7	0	0	53
NNW	5	14	21	4	0	0	44
Variable	0	0	0	0	0	0	0
Total	36	223	265	127	32	0	683

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 Station

Period of Record: October - December2005
Stability Class - Slightly Stable - 150Ft-35Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	12	16	3	1	0	0	32
NNE	20	9	1	0	0	0	30
NE	6	15	3	0	0	0	24
ENE	4	5	4	0	0	0	13
E	0	13	5	0	0	0	18
ESE	9	11	7	3	0	0	30
SE	6	15	19	7	1	0	48
SSE	11	32	25	3	0	0	71
S	7	48	67	16	8	0	146
SSW	6	14	40	14	4	0	78
SW	10	15	18	3	0	0	46
WSW	6	15	11	3	1	0	36
W	15	50	29	7	0	0	101
WNW	21	53	16	9	0	0	99
NW	16	18	5	0	0	0	39
NNW	11	47	26	1	0	0	85
Variable	0	0	0	0	0	0	0
Total	160	376	279	67	14	0	896

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 Station

Period of Record: October - December2005
Stability Class - Moderately Stable - 150Ft-35Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	9	0	0	0	0	0	9
NNE	3	1	0	0	0	0	4
NE	2	0	0	0	0	0	2
ENE	0	1	0	0	0	0	1
E	0	0	0	0	0	0	0
ESE	1	2	0	0	0	0	3
SE	4	4	0	0	0	0	8
SSE	5	10	0	0	0	0	15
S	12	16	9	0	0	0	37
SSW	11	18	0	0	0	0	29
SW	8	12	2	0	0	0	22
WSW	7	5	0	0	0	0	12
W	6	2	0	0	0	0	8
WNW	5	3	0	0	0	0	8
NW	8	15	0	0	0	0	23
NNW	10	2	0	0	0	0	12
Variable	0	0	0	0	0	0	0
Total	91	91	11	0	0	0	193

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 Station

Period of Record: October - December2005
Stability Class - Extremely Stable - 150Ft-35Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	1	0	0	0	0	0	1
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	0	0	0	0	0	0
ESE	0	3	0	0	0	0	3
SE	1	0	0	0	0	0	1
SSE	5	0	0	0	0	0	5
S	4	1	0	0	0	0	5
SSW	2	5	0	0	0	0	7
SW	3	23	0	0	0	0	26
WSW	2	2	0	0	0	0	4
W	3	1	0	0	0	0	4
WNW	5	1	0	0	0	0	6
NW	10	0	0	0	0	0	10
NNW	6	1	0	0	0	0	7
Variable	0	0	0	0	0	0	0
Total	42	37	0	0	0	0	79

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 Station

Period of Record: October - December2005
Stability Class - Extremely Unstable - 300Ft-35Ft Delta-T (F)
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	1	1	0	0	2
NNE	0	0	1	0	1	0	2
NE	0	0	4	6	0	0	10
ENE	0	0	1	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	1	0	1
WSW	0	0	1	0	0	0	1
W	0	0	0	0	0	1	1
WNW	0	0	1	6	0	0	7
NW	0	0	0	3	0	1	4
NNW	0	0	2	2	0	1	5
Variable	0	0	0	0	0	0	0
Total	0	0	11	18	2	3	34

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: 3

Dresden Nuclear Station

Period of Record: October - December2005
Stability Class - Moderately Unstable - 300Ft-35Ft Delta-T (F)
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	3	0	0	5
NNE	0	0	1	0	0	0	1
NE	0	0	4	4	0	0	8
ENE	0	0	1	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	6	1	0	7
SW	0	0	0	2	2	1	5
WSW	0	2	1	2	0	2	7
W	0	0	3	2	0	2	7
WNW	0	0	4	5	0	1	10
NW	0	0	1	3	0	2	6
NNW	0	1	1	4	0	0	6
Variable	0	0	0	0	0	0	0
Total	0	4	17	31	3	8	63

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: 3

Dresden Nuclear Station

Period of Record: October - December2005
Stability Class - Slightly Unstable - 300Ft-35Ft Delta-T (F)
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	1	0	0	4
NNE	0	0	0	0	1	0	1
NE	0	1	2	0	0	0	3
ENE	0	0	2	2	0	0	4
E	0	0	1	0	0	0	1
ESE	0	0	0	0	0	0	0
SE	0	0	1	0	0	0	1
SSE	0	0	4	1	0	0	5
S	0	0	2	2	1	0	5
SSW	0	0	1	8	5	0	14
SW	0	1	1	1	0	0	3
WSW	0	1	4	1	1	1	8
W	0	0	5	2	0	1	8
WNW	1	1	3	3	1	1	10
NW	0	2	2	2	0	0	6
NNW	0	2	1	4	1	0	8
Variable	0	0	0	0	0	0	0
Total	1	9	31	27	10	3	81

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: 3

Dresden Nuclear Station

Period of Record: October - December2005
Stability Class - Neutral - 300Ft-35Ft Delta-T (F)
Winds Measured at 300 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	3	4	9	18	6	2	42
NNE	3	5	10	13	3	0	34
NE	0	1	17	6	0	0	24
ENE	0	9	30	13	0	0	52
E	1	9	18	37	0	0	65
ESE	2	1	18	10	3	2	36
SE	1	1	7	18	19	2	48
SSE	0	3	10	18	14	1	46
S	1	6	18	30	19	8	82
SSW	1	4	11	24	26	4	70
SW	2	9	18	11	18	10	68
WSW	1	9	16	14	12	14	66
W	1	17	37	47	32	23	157
WNW	1	8	37	27	27	12	112
NW	0	9	23	32	4	8	76
NNW	0	10	12	50	11	3	86
Variable	0	0	0	0	0	0	0
Total	17	105	291	368	194	89	1064

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 3
Hours of missing stability measurements in all stability classes: 3

Dresden Nuclear Station

Period of Record: October - December2005
Stability Class - Slightly Stable - 300Ft-35Ft Delta-T (F)
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	5	12	16	6	0	39
NNE	1	7	15	3	0	0	26
NE	0	5	12	7	0	0	24
ENE	2	10	3	0	0	0	15
E	0	1	11	1	0	0	13
ESE	1	1	13	4	0	0	19
SE	1	2	5	10	0	3	21
SSE	1	3	8	23	9	0	44
S	0	2	11	49	38	11	111
SSW	0	3	12	36	48	10	109
SW	1	4	9	15	11	0	40
WSW	3	5	11	9	2	3	33
W	0	7	17	27	3	0	54
WNW	0	4	28	39	10	1	82
NW	2	3	10	18	6	0	39
NNW	1	9	3	16	16	0	45
Variable	0	0	0	0	0	0	0
Total	13	71	180	273	149	28	714

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: 3

Dresden Nuclear Station

Period of Record: October - December2005
Stability Class - Moderately Stable - 300Ft-35Ft Delta-T (F)
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	1	0	0	4
NNE	1	0	6	2	0	0	9
NE	0	2	0	2	0	0	4
ENE	0	3	4	0	0	0	7
E	0	0	0	0	0	0	0
ESE	0	1	0	0	0	0	1
SE	0	2	1	0	0	0	3
SSE	0	2	6	3	1	0	12
S	1	2	6	2	5	0	16
SSW	0	2	0	23	5	0	30
SW	0	5	1	11	0	0	17
WSW	0	2	6	18	1	0	27
W	1	0	9	17	0	0	27
WNW	0	1	2	0	1	0	4
NW	0	3	8	7	6	0	24
NNW	1	4	2	5	0	0	12
Variable	0	0	0	0	0	0	0
Total	4	30	53	91	19	0	197

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: 3

Dresden Nuclear Station

Period of Record: October - December2005
Stability Class - Extremely Stable - 300Ft-35Ft Delta-T (F)
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	3	4	0	7
NNE	0	0	1	3	3	0	7
NE	0	1	0	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	0	0	0	0
SSW	0	0	1	4	1	0	6
SW	0	1	0	3	1	0	5
WSW	0	1	0	2	0	0	3
W	0	1	1	2	2	0	6
WNW	0	0	1	0	0	0	1
NW	0	0	2	1	0	0	3
NNW	0	0	2	4	0	0	6
Variable	0	0	0	0	0	0	0
Total	0	4	8	22	11	0	45

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: 3