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DRESDEN NUCLEAR POWER STATION UNITS 1, 2 and 3

Annual Radiological
Environmental Operating Report

1 January Through 31 December 2006

Prepared By

Teledyne Brown Engineering
Environmental Services

ExelonSM

Nuclear

Dresden Nuclear Power Station
Morris, IL 60450

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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 2006 through 31 December 2006. During that time period, 2,005 analyses were performed on 1,586 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 anthropogenic gamma emitting nuclides were detected. Gross beta and tritium activities detected were consistent with those detected in previous years. Installation of a compositor (D-57) resulted in the detection of tritium upstream of the station on the Kankakee River.

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. Gross beta results at the indicator locations were consistent with those at the control location. 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 one retired reactor and two operating 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 2006 through 31 December 2006.

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 2006. 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 from four surface water locations (D-51, D-52, D-54 and D-57) and composited for analysis. Control locations were D-52, D-54, and D-57. 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, smallmouth buffalo, channel catfish, freshwater drum 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, milk, and food products. Airborne iodine and particulate samples were collected at fourteen locations (D-01, D-02, D-03, D-04, D-07, D-08, D-10, D-12, D-13, D-14, D-45, D-53, D-55 and D-56). 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 air filters and air iodine samples were replaced weekly and sent to the laboratory 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, D-53, D-55, and D-56).

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 2006. 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 calculated the same as the LLD 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 11 nuclides, Mn-54, Co-58, Fe-59, Co-60, Zn-65, Nb/Zr-95, I-131, Cs-134, Cs-137, Ba-140 and 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 2006 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/I	D-12	03/03/06 – 03/10/06	Low timer readings of 151.4 hours and 159.9 hours due to electric utility working near sampler location
AP/I	D-01, D-04	04/14/06	Low timer readings of 161.9 on both due to lightning strike affecting power supply
AP/I	D-02	05/12/06	Low timer reading of 162.1 hours; cause was unknown
AP/I	D-04	05/12/06	Run time indicator failed; sample volume was estimated assuming continuous sample collection
AP/I	D-10	05/12/06	Low timer reading of 167.2 hours; cause was unknown

Table D-1 LISTING OF SAMPLE ANOMALIES (cont'd)

Sample Type	Location Code	Collection Date	Reason
AP/I	D-56	07/28/06	Low timer reading of 65.1 hours due to recent installation of new sampler on 07/25/06
AP/I	D-04	08/04/06	Run time indicator failed; sample volume was estimated assuming continuous sample collection
AP/I	D-53	08/04/06	Low timer reading of 154.7 hours; cause was unknown
AP/I	D-12	12/01/06	Low timer reading of 166.9 hours due to electric utility working near sampler location

Table D-2 LISTING OF MISSED SAMPLES

Sample Type	Location Code	Collection Date	Reason
M	D-25 (control)	06/30/06	I-131 LLD was not met due to analytical error
I	D-56	07/28/06	I-131 LLD missed due to low sample volume; new station only had 4 days of air collection.

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

Surface water station D-57 was added on 07/24/06.

Air particulate, air iodine and TLD stations D-55 and D-56 were added on 12/30/05 and 07/25/06, respectively.

Location D-23 sampling frequency was administratively increased in March in order to monitor elevated tritium levels at that location.

IV. Results and Discussion

A. Aquatic Environment

1. Surface Water

Samples were taken weekly and composited for analysis at four locations (D-51, D-52, D-54 and D-57). 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-1.1, Appendix C). The values ranged from <3.0 to 9.8 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-1.2, Appendix C). Indicator values ranged from <185 to 236 pCi/L. Control values ranged from <181 to 968 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-1.3, 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

All samples were analyzed for tritium activity (Table C–II.1, Appendix C). D-35 values ranged from <131 to <174 pCi/L. D-23 values ranged from 340 to 729 pCi/L. Concentrations detected were consistent with those detected in previous years (Figure C–5, Appendix C).

Gamma Spectrometry

All samples 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, smallmouth buffalo, channel catfish, freshwater drum 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 2,660 to 3,790 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). Cesium-137 was detected in all samples.

Concentrations of the fission product Cs-137 was found in both

samples at concentrations of 142 and 86 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 2006, 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 14 locations on a weekly basis. The 14 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, D-53 and D-56), Far-field samplers between 4 and 10 km from the site (D-08, D-10, D-13, D-14 and D-55) and the Control sampler between 10 and 30 km from the site (D-12). 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 <5 to 35 E-3 pCi/m³ with a mean of 18 E-3 pCi/m³. The results from the Near-Field locations ranged from <5 to 36 E-3 pCi/m³ with a mean of 19 E-3 pCi/m³. The results from the Far-Field locations ranged from 6 to 39 E-3 pCi/m³ with a mean of 19 E-3 pCi/m³. The results from the Control location ranged from 6 to 35 E-3 pCi/m³ with a mean of 19 E-3 pCi/m³. Comparison of the 2006 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 2006 indicate no notable differences among the four groups (Figures C-6 through C-12, 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 40 of 54 samples and ranged from 6 to 125 E-3 pCi/m³. No other nuclides were detected, and all required LLDs were met.

b. Airborne Iodine

Continuous air samples were collected from 14 locations (D-01, D-02, D-03, D-04, D-07, D-08, D-10, D-12, D-13, D-14, D-45, D-53, D-55 and D-56) and analyzed weekly for I-131 (Table C-VI.1, Appendix C). No nuclides were detected. The I-131 LLD was missed on one sample. See the Program Exceptions section III.D for the explanation.

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. The I-131 LLD was missed on one sample. See the Program Exceptions section III.D for the explanation.

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 found in all nineteen samples. The activities ranged from 1,140 to 1,400 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 (CaF₂ and LiF) thermoluminescent dosimeters. Forty-six 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 16 to 33 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 30 August 2006 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	5.8	-
D ENE	0.7	-	-
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

There was no errata data discovered in 2006.

F. Summary of Results – Inter-Laboratory Comparison Program

The primary laboratory 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 $\pm 20\%$ of the reference value. Performance is acceptable with warning when a mean result falls in the range from $\pm 20\%$ to $\pm 30\%$ of the reference value (i.e., $20\% < \text{bias} < 30\%$). If the bias is greater than 30%, the results are deemed not acceptable.

For the primary laboratory, 24 out of 28 analytes met the specified acceptance criteria. Four samples did not meet the specified acceptance criteria for the following reasons:

1. Teledyne Brown Engineering's MAPEP Series 15 January 2006 soil Cs-134 was evaluated as a false positive, although TBE considered the result a non-detect due to the peak not being identified by the gamma software. MAPEP suggests the Bi-214 is not being differentiated from the Cs-134 peak. When the ratio of activity to uncertainty exceeds 3, TBE will use a key line analysis rather than a weighted mean analysis when evaluating MAPEP non-detects.
2. Teledyne Brown Engineering's MAPEP Series 15 January 2006 Sr-90 in vegetation result of 2.22 Bq/kg exceeded the upper acceptance range of 2.029 Bq/kg. The samples were analyzed in triplicate and the results averaged. One high result of 2.43 Bq/kg biased the submitted results on the high side. TBE was unable to determine the cause for the higher result. The Sr-90 in vegetation results for MAPEP Series 14 and MAPEP Series 16 were acceptable. No client samples were analyzed during the MAPEP Series 14 time period.
3. Teledyne Brown Engineering's MAPEP Series 15 January 2006 Pu-238 and Pu-239/240 in vegetation result of 2.22 Bq/kg failed the required acceptance ranges. TBE was evaluating the current preparation method for vegetation samples, which proved

insufficient for the analyses. TBE does not perform isotopic Pu on client's vegetation samples.

For the secondary laboratory, 21 out of 28 analytes met the specified acceptance criteria. Four samples did not meet the specified acceptance criteria for the following reasons:

1. Environmental Inc.'s ERA November 2006 water I-131 result of 28.4 pCi/L exceeded the upper control limit of 27.3 pCi/L. The reported result was an average of three analyses, results ranged from 25.36 pCi/L to 29.23 pCi/L. A fourth analysis was performed, with a result of 24.89 pCi/L.
2. Environmental Inc.'s MAPEP January 2006 vegetation Pu-238 result of 0.08 Bq/sample exceeded the lower control limit of 0.10 Bq/sample due to incomplete dissolution of the sample.
3. Environmental Inc.'s MAPEP January 2006 air particulate Pu-238 result of 0.03 Bq/sample exceeded the lower control limit of 0.05 Bq/sample due to incomplete dissolution of the sample.
4. Environmental Inc.'s MAPEP January 2006 soil Pu-238, Pu-239/240, U-233/234 and U-238 results of 14.6, 14.6, 13.5 and 15.4 Bq/kg, respectively, exceeded the lower control limits of 42.81, 32.09, 25.9 and 27.2 Bq/kg, respectively, due to incomplete dissolution of the sample.

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

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APPENDIX A

RADIOLOGICAL ENVIRONMENTAL MONITORING REPORT SUMMARY

**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 1ST QUARTER SUMMARY FOR
DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY: DRESDEN		DOCKET NUMBER: 50-010, 50-237 & 50-249		REPORTING PERIOD: 1ST QUARTER 2006				
LOCATION OF FACILITY: MORRIS, IL		INDICATOR CONTROL 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)	INDICATOR MEAN (F) RANGE	CONTROL MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN MEAN (F) RANGE	STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
SURFACE WATER (PCI/LITER)	GR-B	9	4	7.2 (3/3) (6.4/ 8.6)	5.0 (6/6) (3.9/ 8.0)	7.2 (3/3) (6.4/ 8.6)	D-51 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0
	H-3	3	2000	190 (0/1) (<190)	190 (0/2) (<188/<192)	192 (0/1) (<192)	D-52 CONTROL DESPLAINES RIVER - UPSTREAM 1.1 MILES ESE OF SITE	0
	GAMMA MN-54	9	15	3 (0/3) (<3/<4)	3 (0/6) (<2/<4)	4 (0/3) (<3/<4)	D-52 CONTROL DESPLAINES RIVER - UPSTREAM 1.1 MILES ESE OF SITE	0
	CO-58		15	4 (0/3) (<3/<4)	4 (0/6) (<3/<5)	4 (0/3) (<3/<5)	D-52 CONTROL DESPLAINES RIVER - UPSTREAM 1.1 MILES ESE OF SITE	0
	FE-59		30	8 (0/3) (<6/<10)	8 (0/6) (<6/<10)	8 (0/3) (<7/<10)	D-52 CONTROL DESPLAINES RIVER - UPSTREAM 1.1 MILES ESE OF SITE	0
	CO-60		15	4 (0/3) (<3/<4)	4 (0/6) (<3/<4)	4 (0/3) (<3/<4)	D-54 CONTROL KANKAKEE RIVER - UPSTREAM 8.7 MILES SE OF SITE	0
	ZN-65		30	8 (0/3) (<6/<11)	8 (0/6) (<6/<11)	8 (0/3) (<6/<11)	D-52 CONTROL DESPLAINES RIVER - UPSTREAM 1.1 MILES ESE OF SITE	0
	NB-95		15	4 (0/3) (<3/<5)	4 (0/6) (<3/<4)	4 (0/3) (<3/<4)	D-52 CONTROL DESPLAINES RIVER - UPSTREAM 1.1 MILES ESE OF SITE	0

* THE MEAN AND 2 STANDARD DEVIATION VALUES ARE CALCULATED USING BOTH THE MDAs AND THE POSITIVE VALUES FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 1ST QUARTER SUMMARY FOR
DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY: DRESDEN				DOCKET NUMBER: 50-010, 50-237 & 50-249					
LOCATION OF FACILITY: MORRIS, IL				REPORTING PERIOD: 1ST QUARTER 2006					
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	CONTROL	LOCATION WITH HIGHEST ANNUAL MEAN			
				LOCATIONS MEAN (F) RANGE	LOCATION MEAN (F) RANGE	MEAN (F) RANGE	STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTINE REPORTED MEASUREMENTS	
SURFACE WATER (PCI/LITER)	ZR-95		30	7 (0/3) (<5/<8)	7 (0/6) (<5/<8)	7 (0/3) (<6/<8)	D-52 CONTROL DESPLAINES RIVER - UPSTREAM 1.1 MILES ESE OF SITE		0
	I-131		15	13 (0/3) (<12/<15)	14 (0/6) (<13/<15)	14 (0/3) (<14/<15)	D-52 CONTROL DESPLAINES RIVER - UPSTREAM 1.1 MILES ESE OF SITE		0
	CS-134		15	4 (0/3) (<3/<5)	4 (0/6) (<3/<5)	4 (0/3) (<3/<5)	D-52 CONTROL DESPLAINES RIVER - UPSTREAM 1.1 MILES ESE OF SITE		0
	CS-137		18	3 (0/3) (<3/<4)	4 (0/6) (<3/<5)	4 (0/3) (<3/<5)	D-52 CONTROL DESPLAINES RIVER - UPSTREAM 1.1 MILES ESE OF SITE		0
	BA-140		60	28 (0/3) (<23/<30)	28 (0/6) (<25/<31)	29 (0/3) (<27/<31)	D-52 CONTROL DESPLAINES RIVER - UPSTREAM 1.1 MILES ESE OF SITE		0
	LA-140		15	9 (0/3) (<7/<11)	9 (0/6) (<8/<11)	10 (0/3) (<9/<11)	D-52 CONTROL DESPLAINES RIVER - UPSTREAM 1.1 MILES ESE OF SITE		0
	GROUND WATER (PCI/LITER)	H-3	3	2000	521 (2/3) (<161/722)	N/A	701 (2/2) (680/722)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	
GAMMA MN-54		3	15	8 (0/3) (<7/<9)	N/A	9 (0/1) (<9)	D-35 INDICATOR DRESDEN LOCK AND DAM 0.8 MILES NW OF SITE		0

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FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 1ST QUARTER SUMMARY FOR
DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY: DRESDEN				DOCKET NUMBER: 50-010, 50-237 & 50-249				
LOCATION OF FACILITY: MORRIS, IL				REPORTING PERIOD: 1ST QUARTER 2006				
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	CONTROL	LOCATION WITH HIGHEST ANNUAL MEAN		NUMBER OF NONROUTINE REPORTED MEASUREMENTS
				LOCATIONS MEAN (F) RANGE	LOCATION MEAN (F) RANGE	MEAN (F) RANGE	STATIONS # NAME DISTANCE AND DIRECTION	
GROUND WATER (PCI/LITER)	CO-58		15	8 (0/3) (<6/<9)	N/A	8 (0/2) (<6/<9)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0
	FE-59		30	16 (0/3) (<14/<18)	N/A	18 (0/1) (<18)	D-35 INDICATOR DRESDEN LOCK AND DAM 0.8 MILES NW OF SITE	0
	CO-60		15	8 (0/3) (<7/<9)	N/A	9 (0/1) (<9)	D-35 INDICATOR DRESDEN LOCK AND DAM 0.8 MILES NW OF SITE	0
	ZN-65		30	21 (0/3) (<17/<23)	N/A	23 (0/1) (<23)	D-35 INDICATOR DRESDEN LOCK AND DAM 0.8 MILES NW OF SITE	0
	NB-95		15	9 (0/3) (<8/<10)	N/A	9 (0/1) (<9)	D-35 INDICATOR DRESDEN LOCK AND DAM 0.8 MILES NW OF SITE	0
	ZR-95		30	14 (0/3) (<11/<18)	N/A	14 (0/2) (<11/<18)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0
	I-131		15	12 (0/3) (<11/<13)	N/A	13 (0/1) (<13)	D-35 INDICATOR DRESDEN LOCK AND DAM 0.8 MILES NW OF SITE	0
	CS-134		15	11 (0/3) (<9/<13)	N/A	11 (0/2) (<9/<13)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 1ST QUARTER SUMMARY FOR
DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY: DRESDEN		DOCKET NUMBER: 50-010, 50-237 & 50-249						
LOCATION OF FACILITY: MORRIS, IL		REPORTING PERIOD: 1ST QUARTER 2006						
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 NONROUTINE REPORTED MEASUREMENTS
GROUND WATER (PCI/LITER)	CS-137		18	8 (0/3) (<7/<9)	N/A	9 (0/1) (<9)	D-35 INDICATOR DRESDEN LOCK AND DAM 0.8 MILES NW OF SITE	0
	BA-140		60	37 (0/3) (<30/<41)	N/A	41 (0/1) (<41)	D-35 INDICATOR DRESDEN LOCK AND DAM 0.8 MILES NW OF SITE	0
	LA-140		15	12 (0/3) (<11/<14)	N/A	14 (0/1) (<14)	D-35 INDICATOR DRESDEN LOCK AND DAM 0.8 MILES NW OF SITE	0
AIR PARTICULATE (E-3 PCI/CU.METER)	GR-B	169	10	18 (156/156) (9/28)	18 (13/13) (10/28)	19 (13/13) (13/26)	D-07 INDICATOR CLAY PRODUCTS 2.6 MILES S OF SITE	0
	GAMMA MN-54	13	N/A	6.0 (0/12) (< 4.0/< 8.1)	6.7 (0/1) (< 6.7)	8.1 (0/1) (< 8.1)	D-04 INDICATOR COLLINS ROAD 0.8 MILES W OF SITE	0
	CO-58		N/A	8.3 (0/12) (< 3.5/<11.3)	13.1 (0/1) (<13.1)	13.1 (0/1) (<13.1)	D-12 CONTROL LISBON 10.5 MILES NW OF SITE	0
	FE-59		N/A	29.9 (0/12) (<23.7/<37.6)	34.1 (0/1) (<34.1)	37.6 (0/1) (<37.6)	D-07 INDICATOR CLAY PRODUCTS 2.6 MILES S OF SITE	0
	CO-60		N/A	5.0 (0/12) (< 2.3/< 8.0)	3.2 (0/1) (< 3.2)	8.0 (0/1) (< 8.0)	D-07 INDICATOR CLAY PRODUCTS 2.6 MILES S OF SITE	0

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 1ST QUARTER SUMMARY FOR
DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY: DRESDEN				DOCKET NUMBER: 50-010, 50-237 & 50-249				
LOCATION OF FACILITY: MORRIS, IL				REPORTING PERIOD: 1ST QUARTER 2006				
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	CONTROL	LOCATION WITH HIGHEST ANNUAL MEAN		
				LOCATIONS MEAN (F) RANGE	LOCATION MEAN (F) RANGE	MEAN (F) RANGE	STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
AIR PARTICULATE (E-3 PCI/CU.METER)	ZN-65		N/A	15 (0/12) (<11.3/<20.2)	14.8 (0/1) (<14.8)	20.2 (0/1) (<20.2)	D-10 INDICATOR GOOSE LAKE VILLAGE 3.5 MILES SSW OF SITE	0
	ZRNB-95		N/A	10.9 (0/12) (< 7.0/<13.7)	9.1 (0/1) (< 9.1)	13.7 (0/1) (<13.7)	D-13 INDICATOR MINOOKA 4.4 MILES N OF SITE	0
	CS-134		50	6.3 (0/12) (< 5.6/< 7.6)	5.5 (0/1) (< 5.5)	7.6 (0/1) (< 7.6)	D-10 INDICATOR GOOSE LAKE VILLAGE 3.5 MILES SSW OF SITE	0
	CS-137		60	5.3 (0/12) (< 4.5/< 7.6)	4.8 (0/1) (< 4.8)	7.6 (0/1) (< 7.6)	D-10 INDICATOR GOOSE LAKE VILLAGE 3.5 MILES SSW OF SITE	0
	BALA140		N/A	354.6 (0/12) (<217/<481)	356 (0/1) (<356)	481 (0/1) (<481)	D-03 INDICATOR ONSITE 3 0.4 MILES S OF SITE	0
AIR IODINE (E-3 PCI/CU.METER)	GAMMA I-131	169	70	36 (0/156) (<16/<50)	37 (0/13) (<25/<53)	39 (0/13) (<27/<47)	D-45 INDICATOR MCKINLEY WOODS ROAD 1.7 MILES ENE OF SITE	0
MILK (PCI/LITER)	I-131	3	1	N/A	0.5 (0/3) (< 0.4/< 0.6)	0.5 (0/3) (< 0.4/< 0.6)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 1ST QUARTER SUMMARY FOR
DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY: DRESDEN				DOCKET NUMBER: 50-010, 50-237 & 50-249				
LOCATION OF FACILITY: MORRIS, IL				REPORTING PERIOD: 1ST QUARTER 2006				
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	CONTROL	LOCATION WITH HIGHEST ANNUAL MEAN		NUMBER OF NONROUTINE REPORTED MEASUREMENTS
				LOCATIONS MEAN (F) RANGE	LOCATION MEAN (F) RANGE	MEAN (F) RANGE	STATIONS # NAME DISTANCE AND DIRECTION	
MILK (PCI/LITER)	GAMMA MN-54	3	N/A	N/A	8 (0/3)	8 (0/3)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0
					<6/<8	<6/<8		
	CO-58		N/A	N/A	8 (0/3)	8 (0/3)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0
					<7/<9	<7/<9		
	FE-59		N/A	N/A	18 (0/3)	18 (0/3)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0
					<16/<20	<16/<20		
	CO-60		N/A	N/A	8 (0/3)	8 (0/3)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0
					<7/<9	<7/<9		
ZN-65		N/A	N/A	21 (0/3)	21 (0/3)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0	
				<17/<24	<17/<24			
ZRN-95		N/A	N/A	8 (0/3)	8 (0/3)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0	
				<7/<9	<7/<9			
CS-134		15	N/A	10 (0/3)	10 (0/3)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0	
				<7/<11	<7/<11			
CS-137		18	N/A	8 (0/3)	8 (0/3)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0	
				<7/<9	<7/<9			

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FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 1ST QUARTER SUMMARY FOR
DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY: DRESDEN		DOCKET NUMBER: 50-010, 50-237 & 50-249						
LOCATION OF FACILITY: MORRIS, IL		REPORTING PERIOD: 1ST QUARTER 2006						
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	CONTROL	LOCATION WITH HIGHEST ANNUAL MEAN		NUMBER OF NONROUTINE REPORTED MEASUREMENTS
				LOCATIONS MEAN (F) RANGE	LOCATION MEAN (F) RANGE	MEAN (F) RANGE	STATIONS # NAME DISTANCE AND DIRECTION	
MILK (PCI/LITER)	BA-140		60	N/A	38 (0/3) (<33/<44)	38 (0/3) (<33/<44)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0
	LA-140		15	N/A	10 (0/3) (<8/<10)	10 (0/3) (<8/<10)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0
DIRECT RADIATION (MILLI-ROENTGEN/QTR)	TLD-QUARTERLY	92	N/A	27 (90/90) (21/32)	24 (2/2) (22/25)	32 (1/1) (32)	D-110-4 INDICATOR* 0.9 MILES SSW	0

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* D-201-2 also read 32 mrem.

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 2ND QUARTER SUMMARY FOR
DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY: DRESDEN		DOCKET NUMBER: 50-010, 50-237 & 50-249				REPORTING PERIOD: 2ND QUARTER 2006			
LOCATION OF FACILITY: MORRIS, IL				INDICATOR	CONTROL	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 NONROUTINE REPORTED MEASUREMENTS	
SURFACE WATER (PCI/LITER)	GR-B	9	4	6.3 (3/3) (5.3/ 7.7)	4.4 (5/6) (< 3.0/ 5.4)	6.3 (3/3) (5.3/ 7.7)	D-51 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0	
	H-3	3	2000	185 (0/1) (<185)	183 (0/2) (<183/<183)	185 (0/1) (<185)	D-51 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0	
	GAMMA MN-54	9	15	3 (0/3) (<2/<3)	2 (0/6) (<1/<3)	3 (0/3) (<2/<3)	D-51 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0	
	CO-58		15	3 (0/3) (<2/<3)	2 (0/6) (<1/<3)	3 (0/3) (<2/<3)	D-52 CONTROL DESPLAINES RIVER - UPSTREAM 1.1 MILES ESE OF SITE	0	
	FE-59		30	6 (0/3) (<6/<7)	5 (0/6) (<2/<7)	6 (0/3) (<6/<7)	D-51 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0	
	CO-60		15	2 (0/3) (<2/<3)	2 (0/6) (<1/<3)	2 (0/3) (<2/<3)	D-51 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0	
	ZN-65		30	6 (0/3) (<4/<7)	5 (0/6) (<2/<7)	6 (0/3) (<4/<7)	D-51 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0	
	NB-95		15	3 (0/3) (<2/<3)	2 (0/6) (<1/<3)	3 (0/3) (<2/<3)	D-51 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0	

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 2ND QUARTER SUMMARY FOR
DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY: DRESDEN				DOCKET NUMBER: 50-010, 50-237 & 50-249				
LOCATION OF FACILITY: MORRIS, IL				REPORTING PERIOD: 2ND QUARTER 2006				
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 NONROUTINE REPORTED MEASUREMENTS
SURFACE WATER (PCI/LITER)	ZR-95		30	5 (0/3) (<4/<6)	4 (0/6) (<2/<6)	5 (0/3) (<4/<6)	D-51 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0
	I-131		15	13 (0/3) (<11/<15)	13 (0/6) (<9/<15)	14 (0/3) (<12/<15)	D-52 CONTROL DESPLAINES RIVER - UPSTREAM 1.1 MILES ESE OF SITE	0
	CS-134		15	3 (0/3) (<2/<3)	2 (0/6) (<1/<3)	3 (0/3) (<2/<3)	D-51 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0
	CS-137		18	3 (0/3) (<2/<3)	2 (0/6) (<1/<3)	3 (0/3) (<2/<3)	D-51 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0
	BA-140		60	31 (0/3) (<25/<41)	24 (0/6) (<18/<34)	31 (0/3) (<25/<41)	D-51 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0
	LA-140		15	10 (0/3) (<8/<12)	8 (0/6) (<5/<10)	10 (0/3) (<8/<12)	D-51 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0
	GROUND WATER (PCI/LITER)	H-3	4	2000	556 (3/4) (<171/693)	N/A	684 (3/3) (677/693)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE
GAMMA MN-54		4	15	6 (0/4) (<5/<8)	N/A	6 (0/3) (<5/<8)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 2ND QUARTER SUMMARY FOR
DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY: DRESDEN				DOCKET NUMBER: 50-010, 50-237 & 50-249				
LOCATION OF FACILITY: MORRIS, IL				REPORTING PERIOD: 2ND QUARTER 2006				
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	CONTROL	LOCATION WITH HIGHEST ANNUAL MEAN		NUMBER OF NONROUTINE REPORTED MEASUREMENTS
				LOCATIONS MEAN (F) RANGE	LOCATION MEAN (F) RANGE	MEAN (F) RANGE	STATIONS # NAME DISTANCE AND DIRECTION	
GROUND WATER (PCI/LITER)	CO-58		15	6 (0/4) (<6/<8)	N/A	6 (0/3) (<6/<8)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0
	FE-59		30	13 (0/4) (<11/<18)	N/A	14 (0/3) (<12/<18)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0
	CO-60		15	6 (0/4) (<5/<8)	N/A	6 (0/3) (<5/<8)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0
	ZN-65		30	14 (0/4) (<12/<21)	N/A	15 (0/3) (<12/<21)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0
	NB-95		15	6 (0/4) (<5/<9)	N/A	7 (0/3) (<6/<9)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0
	ZR-95		30	11 (0/4) (<9/<15)	N/A	11 (0/3) (<10/<15)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0
	I-131		15	16 (0/4) (<13/<26)	N/A	17 (0/3) (<13/<26)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0
	CS-134		15	7 (0/4) (<5/<11)	N/A	7 (0/3) (<5/<11)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0

* THE MEAN AND 2 STANDARD DEVIATION VALUES ARE CALCULATED USING BOTH THE MDAs AND THE POSITIVE VALUES
FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 2ND QUARTER SUMMARY FOR
DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY: DRESDEN				DOCKET NUMBER: 50-010, 50-237 & 50-249					
LOCATION OF FACILITY: MORRIS, IL				REPORTING PERIOD: 2ND QUARTER 2006					
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	CONTROL	LOCATION WITH HIGHEST ANNUAL MEAN		NUMBER OF NONROUTINE REPORTED MEASUREMENTS	
				LOCATIONS MEAN (F) RANGE	LOCATION MEAN (F) RANGE	MEAN (F) RANGE	STATIONS # NAME DISTANCE AND DIRECTION		
GROUND WATER (PCI/LITER)	CS-137		18	6 (0/4) (<5/<9)	N/A	7 (0/3) (<5/<9)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0	
	BA-140		60	37 (0/4) (<30/<48)	N/A	39 (0/3) (<32/<48)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0	
	LA-140		15	12 (0/4) (<10/<15)	N/A	13 (0/3) (<11/<15)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0	
FISH (PCI/KG WET)	GAMMA	4							
	MN-54		130	62 (0/2) (<62/<62)	50 (0/2) (<47/<54)	62 (0/2) (<62/<62)	D-28 INDICATOR DRESDEN POOL OF ILL. RIVER 0.9 MILES NW OF SITE	0	
	CO-58		130	86 (0/2) (<84/<88)	71 (0/2) (<71/<71)	86 (0/2) (<84/<88)	D-28 INDICATOR DRESDEN POOL OF ILL. RIVER 0.9 MILES NW OF SITE	0	
	FE-59		260	227 (0/2) (<217/<237)	176 (0/2) (<176/<176)	227 (0/2) (<217/<237)	D-28 INDICATOR DRESDEN POOL OF ILL. RIVER 0.9 MILES NW OF SITE	0	
	CO-60		130	58 (0/2) (<57/<59)	55 (0/2) (<50/<60)	58 (0/2) (<57/<59)	D-28 INDICATOR DRESDEN POOL OF ILL. RIVER 0.9 MILES NW OF SITE	0	
	ZN-65		260	152 (0/2) (<141/<163)	125 (0/2) (<123/<126)	152 (0/2) (<141/<163)	D-28 INDICATOR DRESDEN POOL OF ILL. RIVER 0.9 MILES NW OF SITE	0	

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 2ND QUARTER SUMMARY FOR
DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY: DRESDEN				DOCKET NUMBER: 50-010, 50-237 & 50-249				
LOCATION OF FACILITY: MORRIS, IL				REPORTING PERIOD: 2ND QUARTER 2006				
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	CONTROL	LOCATION WITH HIGHEST ANNUAL MEAN		NUMBER OF NONROUTINE REPORTED MEASUREMENTS
				LOCATIONS MEAN (F) RANGE	LOCATION MEAN (F) RANGE	MEAN (F) RANGE	STATIONS # NAME DISTANCE AND DIRECTION	
FISH (PCI/KG WET)	ZRNB-95		N/A	85 (0/2) (<79/<91)	76 (0/2) (<75/<77)	85 (0/2) (<79/<91)	D-28 INDICATOR DRESDEN POOL OF ILL. RIVER 0.9 MILES NW OF SITE	0
	CS-134		130	63 (0/2) (<57/<69)	52 (0/2) (<47/<56)	63 (0/2) (<57/<69)	D-28 INDICATOR DRESDEN POOL OF ILL. RIVER 0.9 MILES NW OF SITE	0
	CS-137		150	65 (0/2) (<64/<67)	54 (0/2) (<54/<55)	65 (0/2) (<64/<67)	D-28 INDICATOR DRESDEN POOL OF ILL. RIVER 0.9 MILES NW OF SITE	0
	BALA140		N/A	660 (0/2) (<580/<739)	547 (0/2) (<521/<573)	660 (0/2) (<580/<739)	D-28 INDICATOR DRESDEN POOL OF ILL. RIVER 0.9 MILES NW OF SITE	0
SEDIMENT (PCI/KG DRY)	GAMMA MN-54	1	N/A	97 (0/1) (<97)	N/A	97 (0/1) (<97)	D-27 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0
	CO-58		N/A	101 (0/1) (<101)	N/A	101 (0/1) (<101)	D-27 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0
	FE-59		N/A	216 (0/1) (<216)	N/A	216 (0/1) (<216)	D-27 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0
	CO-60		N/A	99 (0/1) (<99)	N/A	99 (0/1) (<99)	D-27 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 2ND QUARTER SUMMARY FOR
DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY:		DRESDEN		DOCKET NUMBER:		50-010, 50-237 & 50-249		
LOCATION OF FACILITY:		MORRIS, IL		REPORTING PERIOD:		2ND QUARTER 2006		
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	CONTROL	LOCATION WITH HIGHEST ANNUAL MEAN		
				LOCATIONS MEAN (F) RANGE	LOCATION MEAN (F) RANGE	MEAN (F) RANGE	STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
SEDIMENT (PCI/KG DRY)	ZN-65		N/A	305 (0/1) (<305)	N/A	305 (0/1) (<305)	D-27 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0
	ZRNB-95		N/A	136 (0/1) (<136)	N/A	136 (0/1) (<136)	D-27 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0
	CS-134		150	126 (0/1) (<126)	N/A	126 (0/1) (<126)	D-27 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0
	CS-137		180	142 (1/1) (142)	N/A	142 (1/1) (142)	D-27 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0
	BALA140		N/A	246 (0/1) (<246)	N/A	246 (0/1) (<246)	D-27 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0
AIR PARTICULATE (E-3 PCI/CU.METER)	GR-B	169	10	14 (153/156) (<5/22)	15 (13/13) (6/18)	15 (13/13) (6/22)	D-07 INDICATOR CLAY PRODUCTS 2.6 MILES S OF SITE	0
	GAMMA MN-54	13	N/A	3.2 (0/12) (< 1.7/< 4.8)	3.1 (0/1) (< 3.1)	4.8 (0/1) (< 4.8)	D-10 INDICATOR GOOSE LAKE VILLAGE 3.5 MILES SSW OF SITE	0
	CO-58		N/A	4.7 (0/12) (< 2.3/< 6.2)	1.6 (0/1) (< 1.6)	6.2 (0/1) (< 6.2)	D-08 INDICATOR PRAIRIE PARK 3.8 MILES SW OF SITE	0

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 2ND QUARTER SUMMARY FOR
DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY: DRESDEN				DOCKET NUMBER: 50-010, 50-237 & 50-249					
LOCATION OF FACILITY: MORRIS, IL				REPORTING PERIOD: 2ND QUARTER 2006					
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	CONTROL	LOCATION WITH HIGHEST ANNUAL MEAN		NUMBER OF NONROUTINE REPORTED MEASUREMENTS	
				LOCATIONS MEAN (F) RANGE	LOCATION MEAN (F) RANGE	MEAN (F) RANGE	STATIONS # NAME DISTANCE AND DIRECTION		
AIR PARTICULATE (E-3 PCI/CU.METER)	FE-59		N/A	12.8 (0/12) (< 8.1/<20.8)	7.9 (0/1) (< 7.9)	20.8 (0/1) (<20.8)	D-53 INDICATOR GRUDY COUNTY ROAD 2.1 MILES SSE OF SITE	0	
	CO-60		N/A	3.2 (0/12) (< 1.8/< 4.0)	3.0 (0/1) (< 3.0)	4.0 (0/1) (< 4.0)	D-55 INDICATOR RIDGE ROAD 4.3 MILES N OF SITE	0	
	ZN-65		N/A	7.0 (0/12) (< 3.8/<11.4)	5.5 (0/1) (< 5.5)	11.4 (0/1) (<11.4)	D-08 INDICATOR PRAIRIE PARK 3.8 MILES SW OF SITE	0	
	ZRNB-95		N/A	5.0 (0/12) (< 2.8/< 7.5)	4.1 (0/1) (< 4.1)	7.5 (0/1) (< 7.5)	D-10 INDICATOR GOOSE LAKE VILLAGE 3.5 MILES SSW OF SITE	0	
	CS-134		50	2.8 (0/12) (< 1.5/< 4.4)	2.0 (0/1) (< 2.0)	4.4 (0/1) (< 4.4)	D-08 INDICATOR PRAIRIE PARK 3.8 MILES SW OF SITE	0	
	CS-137		60	2.7 (0/12) (< 1.1/< 4.2)	2.2 (0/1) (< 2.2)	4.2 (0/1) (< 4.2)	D-10 INDICATOR GOOSE LAKE VILLAGE 3.5 MILES SSW OF SITE	0	
	BALA140		N/A	88 (0/12) (<15.4/<164)	88 (0/1) (<88)	164 (0/1) (<164)	D-08 INDICATOR PRAIRIE PARK 3.8 MILES SW OF SITE	0	
AIR IODINE (E-3 PCI/CU.METER)	GAMMA I-131	169	70	51 (0/156) (<22/<70)	49 (0/13) (<32/<66)	54 (0/13) (<39/<69)	D-13 INDICATOR MINOOKA 4.4 MILES N OF SITE	0	

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 2ND QUARTER SUMMARY FOR
DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY: DRESDEN				DOCKET NUMBER: 50-010, 50-237 & 50-249					
LOCATION OF FACILITY: MORRIS, IL				REPORTING PERIOD: 2ND QUARTER 2006					
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	CONTROL	LOCATION WITH HIGHEST ANNUAL MEAN		NUMBER OF NONROUTINE REPORTED MEASUREMENTS	
				LOCATIONS MEAN (F) RANGE	LOCATION MEAN (F) RANGE	MEAN (F) RANGE	STATIONS # NAME DISTANCE AND DIRECTION		
MILK (PCI/LITER)	I-131	6	1	N/A	1.0 (0/6) (< 0.3/< 2.9)	1.0 (0/6) (< 0.3/< 2.9)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0	
	GAMMA MN-54	6	N/A	N/A	8 (0/6) (<5/<10)	8 (0/6) (<5/<10)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0	
	CO-58		N/A	N/A	8 (0/6) (<5/<9)	8 (0/6) (<5/<9)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0	
	FE-59		N/A	N/A	19 (0/6) (<12/<23)	19 (0/6) (<12/<23)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0	
	CO-60		N/A	N/A	9 (0/6) (<6/<12)	9 (0/6) (<6/<12)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0	
	ZN-65		N/A	N/A	20 (0/6) (<12/<25)	20 (0/6) (<12/<25)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0	
	ZRNB-95		N/A	N/A	9 (0/6) (<5/<11)	9 (0/6) (<5/<11)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0	
	CS-134		15	N/A	9 (0/6) (<5/<13)	9 (0/6) (<5/<13)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0	

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 2ND QUARTER SUMMARY FOR
DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY: DRESDEN				DOCKET NUMBER: 50-010, 50-237 & 50-249					
LOCATION OF FACILITY: MORRIS, IL				REPORTING PERIOD: 2ND QUARTER 2006					
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	CONTROL	LOCATION WITH HIGHEST ANNUAL MEAN		NUMBER OF NONROUTINE REPORTED MEASUREMENTS	
				LOCATIONS MEAN (F) RANGE	LOCATION MEAN (F) RANGE	MEAN (F) RANGE	STATIONS # NAME DISTANCE AND DIRECTION		
MILK (PCI/LITER)	CS-137		18	N/A	8 (0/6) (<5/<11)	8 (0/6) (<5/<11)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE		0
	BA-140		60	N/A	41 (0/6) (<27/<51)	41 (0/6) (<27/<51)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE		0
	LA-140		15	N/A	13 (0/6) (<9/<15)	13 (0/6) (<9/<15)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE		0
DIRECT RADIATION (MILLI-ROENTGEN/QTR.)	TLD-QUARTERLY	92	N/A	25 (90/90) (21/33)	26 (2/2) (24/27)	33 (1/1) (33)	D-03-2 INDICATOR* ONSITE 3 0.4 MILES S		0

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* D-201-1 also read 33 mrem.

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 3RD QUARTER SUMMARY FOR
DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY: DRESDEN		DOCKET NUMBER: 50-010, 50-237 & 50-249						
LOCATION OF FACILITY: MORRIS, IL		REPORTING PERIOD: 3RD QUARTER 2006						
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	CONTROL	LOCATION WITH HIGHEST ANNUAL MEAN	STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
				LOCATIONS MEAN (F) RANGE	LOCATION MEAN (F) RANGE	MEAN (F) RANGE		
SURFACE WATER (PCI/LITER)	GR-B	12	4	7.8 (3/3) (6.7/9.8)	6.3 (9/9) (5.1/8.2)	7.8 (3/3) (6.7/9.8)	D-51 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0
	H-3	3	2000	185 (0/1) (<185)	185 (0/2) (<184/<185)	185 (0/1) (<185)	D-51 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0
	GAMMA MN-54	12	15	1 (0/3) (<1/<2)	2 (0/9) (<1/<3)	2 (0/3) (<1/<3)	D-57 CONTROL KANKAKEE RIVER AT WILL ROAD(CONTROL) 2.0 MILES SE OF SITE	0
	CO-58		15	2 (0/3) (<1/<3)	2 (0/9) (<1/<4)	2 (0/3) (<1/<4)	D-57 CONTROL KANKAKEE RIVER AT WILL ROAD(CONTROL) 2.0 MILES SE OF SITE	0
	FE-59		30	4 (0/3) (<3/<6)	4 (0/9) (<2/<9)	5 (0/3) (<2/<9)	D-57 CONTROL KANKAKEE RIVER AT WILL ROAD(CONTROL) 2.0 MILES SE OF SITE	0
	CO-60		15	2 (0/3) (<1/<2)	2 (0/9) (<1/<4)	2 (0/3) (<1/<4)	D-52 CONTROL DESPLAINES RIVER - UPSTREAM 1.1 MILES ESE OF SITE	0
	ZN-65		30	3 (0/3) (<2/<5)	3 (0/9) (<2/<7)	4 (0/3) (<2/<7)	D-57 CONTROL KANKAKEE RIVER AT WILL ROAD(CONTROL) 2.0 MILES SE OF SITE	0
	NB-95		15	2 (0/3) (<1/<3)	2 (0/9) (<1/<4)	2 (0/3) (<1/<4)	D-57 CONTROL KANKAKEE RIVER AT WILL ROAD(CONTROL) 2.0 MILES SE OF SITE	0

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 3RD QUARTER SUMMARY FOR
DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY: DRESDEN				DOCKET NUMBER: 50-010, 50-237 & 50-249				
LOCATION OF FACILITY: MORRIS, IL				REPORTING PERIOD: 3RD QUARTER 2006				
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	CONTROL	LOCATION WITH HIGHEST ANNUAL MEAN		
				LOCATIONS MEAN (F) RANGE	LOCATION MEAN (F) RANGE	MEAN (F) RANGE	STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
SURFACE WATER (PCI/LITER)	ZR-95		30	3 (0/3) (<2/<5)	4 (0/9) (<2/<7)	4 (0/3) (<2/<7)	D-57 CONTROL KANKAKEE RIVER AT WILL ROAD(CONTROL) 2.0 MILES SE OF SITE	0
	I-131		15	12 (0/3) (<10/<14)	13 (0/9) (<8/<15)	14 (0/3) (<14/<15)	D-57 CONTROL KANKAKEE RIVER AT WILL ROAD(CONTROL) 2.0 MILES SE OF SITE	0
	CS-134		15	1 (0/3) (<1/<2)	2 (0/9) (<1/<3)	2 (0/3) (<1/<3)	D-57 CONTROL KANKAKEE RIVER AT WILL ROAD(CONTROL) 2.0 MILES SE OF SITE	0
	CS-137		18	2 (0/3) (<1/<3)	2 (0/9) (<1/<4)	2 (0/3) (<1/<4)	D-57 CONTROL KANKAKEE RIVER AT WILL ROAD(CONTROL) 2.0 MILES SE OF SITE	0
	BA-140		60	19 (0/3) (<17/<21)	21 (0/9) (<16/<30)	22 (0/3) (<18/<30)	D-57 CONTROL KANKAKEE RIVER AT WILL ROAD(CONTROL) 2.0 MILES SE OF SITE	0
	LA-140		15	6 (0/3) (<5/<8)	6 (0/9) (<4/<9)	7 (0/3) (<6/<8)	D-52 CONTROL DESPLAINES RIVER - UPSTREAM 1.1 MILES ESE OF SITE	0
GROUND WATER (PCI/LITER)	H-3	4	2000	531 (3/4) (<174/729)	N/A	649 (3/3) (507/729)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0
	GAMMA MN-54	4	15	3 (0/4) (<1/<6)	N/A	3 (0/3) (<1/<6)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0

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DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY: DRESDEN				DOCKET NUMBER: 50-010, 50-237 & 50-249				
LOCATION OF FACILITY: MORRIS, IL				REPORTING PERIOD: 3RD QUARTER 2006				
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	CONTROL	LOCATION WITH HIGHEST ANNUAL MEAN		
				LOCATIONS MEAN (F) RANGE	LOCATION MEAN (F) RANGE	MEAN (F) RANGE	STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GROUND WATER (PCI/LITER)	CO-58		15	3 (0/4) (<1/<6)	N/A	3 (0/3) (<1/<6)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0
	FE-59		30	5 (0/4) (<3/<11)	N/A	6 (0/3) (<3/<11)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0
	CO-60		15	3 (0/4) (<1/<7)	N/A	3 (0/3) (<1/<7)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0
	ZN-65		30	5 (0/4) (<2/<12)	N/A	6 (0/3) (<2/<12)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0
	NB-95		15	3 (0/4) (<1/<6)	N/A	3 (0/3) (<1/<6)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0
	ZR-95		30	4 (0/4) (<2/<9)	N/A	5 (0/3) (<2/<9)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0
	I-131		15	12 (0/4) (<5/<14)	N/A	14 (0/1) (<14)	D-35 INDICATOR DRESDEN LOCK AND DAM 0.8 MILES NW OF SITE	0
	CS-134		15	2 (0/4) (<1/<4)	N/A	2 (0/3) (<1/<4)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0

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FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 3RD QUARTER SUMMARY FOR
DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY: DRESDEN		DOCKET NUMBER: 50-010, 50-237 & 50-249							
LOCATION OF FACILITY: MORRIS, IL		REPORTING PERIOD: 3RD QUARTER 2006							
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	CONTROL	LOCATION WITH HIGHEST ANNUAL MEAN			NUMBER OF NONROUTINE REPORTED MEASUREMENTS
				LOCATIONS MEAN (F) RANGE	LOCATION MEAN (F) RANGE	MEAN (F) RANGE	STATIONS # NAME DISTANCE AND DIRECTION		
GROUND WATER (PCI/LITER)	CS-137		18	3 (0/4) (<1/<7)	N/A	3 (0/3) (<1/<7)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0	
	BA-140		60	20 (0/4) (<11/<32)	N/A	20 (0/3) (<11/<32)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0	
	LA-140		15	7 (0/4) (<4/<11)	N/A	7 (0/3) (<4/<11)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0	
AIR PARTICULATE (E-3 PCI/CU.METER)	GR-B	179	10	21 (166/166) (10/37)	23 (13/13) (16/35)	23 (13/13) (15/37)	D-13 INDICATOR MINOOKA 4.4 MILES N OF SITE	0	
	GAMMA MN-54	14	N/A	3.1 (0/13) (< 1.7/< 6.5)	3.1 (0/1) (< 3.1)	6.5 (0/1) (< 6.5)	D-56 INDICATOR WILDFEATHER 1.7 MILES SE OF SITE	0	
	CO-58		N/A	4.9 (0/13) (< 1.7/< 9.4)	5.4 (0/1) (< 5.4)	9.4 (0/1) (< 9.4)	D-03 INDICATOR ONSITE 3 0.4 MILES S OF SITE	0	
	FE-59		N/A	17.9 (0/13) (< 9.1/<36.4)	13.7 (0/1) (<13.7)	36.4 (0/1) (<36.4)	D-56 INDICATOR WILDFEATHER 1.7 MILES SE OF SITE	0	
	CO-60		N/A	3.0 (0/13) (< 1.4/< 5.2)	1.7 (0/1) (< 1.7)	5.2 (0/1) (< 5.2)	D-03 INDICATOR ONSITE 3 0.4 MILES S OF SITE	0	

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FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 3RD QUARTER SUMMARY FOR
DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY: DRESDEN				DOCKET NUMBER: 50-010, 50-237 & 50-249		REPORTING PERIOD: 3RD QUARTER 2006		
LOCATION OF FACILITY: MORRIS, IL				INDICATOR	CONTROL	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 NONROUTINE REPORTED MEASUREMENTS
AIR PARTICULATE (E-3 PCI/CU.METER)	ZN-65		N/A	7.2 (0/13) (<3.7/<11.8)	6.1 (0/1) (<6.1)	11.8 (0/1) (<11.8)	D-03 INDICATOR ONSITE 3 0.4 MILES S OF SITE	0
	ZRNB-95		N/A	6.2 (0/13) (<3.9/<11)	6.9 (0/1) (<6.9)	11 (0/1) (<11)	D-56 INDICATOR WILDFEATHER 1.7 MILES SE OF SITE	0
	CS-134		50	2.6 (0/13) (<1.5/<4.5)	2.7 (0/1) (<2.7)	4.5 (0/1) (<4.5)	D-56 INDICATOR WILDFEATHER 1.7 MILES SE OF SITE	0
	CS-137		60	2.6 (0/13) (<1.6/<5.0)	3.2 (0/1) (<3.2)	5.0 (0/1) (<5.0)	D-56 INDICATOR WILDFEATHER 1.7 MILES SE OF SITE	0
	BALA140		N/A	257.8 (0/13) (<121/<458)	279 (0/1) (<279)	458 (0/1) (<458)	D-14 INDICATOR CHANNAHON 3.7 MILES NE OF SITE	0
AIR IODINE (E-3 PCI/CU.METER)	GAMMA I-131	179	70	48 (0/166) (<10/<167)	49 (0/13) (<18/<67)	56 (0/10) (<16/<167)	D-56 INDICATOR WILDFEATHER 1.7 MILES SE OF SITE	0
MILK (PCI/LITER)	I-131	6	1	N/A	0.5 (0/6) (<0.3/<0.8)	0.5 (0/6) (<0.3/<0.8)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 3RD QUARTER SUMMARY FOR
DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY: DRESDEN		DOCKET NUMBER: 50-010, 50-237 & 50-249				REPORTING PERIOD: 3RD QUARTER 2006			
LOCATION OF FACILITY: MORRIS, IL				INDICATOR		CONTROL		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 NONROUTINE REPORTED MEASUREMENTS	
MILK (PCI/LITER)	GAMMA MN-54	6	N/A	N/A	7 (0/6) (<6/<7)	7 (0/6) (<6/<7)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0	
	CO-58		N/A	N/A	7 (0/6) (<6/<8)	7 (0/6) (<6/<8)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0	
	FE-59		N/A	N/A	16 (0/6) (<13/<18)	16 (0/6) (<13/<18)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0	
	CO-60		N/A	N/A	7 (0/6) (<5/<7)	7 (0/6) (<5/<7)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0	
	ZN-65		N/A	N/A	16 (0/6) (<12/<19)	16 (0/6) (<12/<19)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0	
	ZRNB-95		N/A	N/A	7 (0/6) (<6/<9)	7 (0/6) (<6/<9)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0	
	CS-134		15	N/A	6 (0/6) (<4/<8)	6 (0/6) (<4/<8)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0	
	CS-137		18	N/A	6 (0/6) (<5/<8)	6 (0/6) (<5/<8)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0	

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 3RD QUARTER SUMMARY FOR
DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY: DRESDEN		DOCKET NUMBER: 50-010, 50-237 & 50-249						
LOCATION OF FACILITY: MORRIS, IL		REPORTING PERIOD: 3RD QUARTER 2006						
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 NONROUTINE REPORTED MEASUREMENTS
MILK (PCI/LITER)	BA-140		60	N/A	36 (0/6) (<29/<44)	36 (0/6) (<29/<44)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0
	LA-140		15	N/A	11 (0/6) (<8/<14)	11 (0/6) (<8/<14)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0
VEGETATION (PCI/KG WET)	GAMMA MN-54	10	N/A	13 (0/8) (<3/<23)	7 (0/2) (<2/<13)	17 (0/2) (<15/<19)	D-QUAD 4 INDICATOR J.D. CARMICHAEL 1.6 MILES NNW OF SITE	0
				14 (0/8) (<3/<23)	7 (0/2) (<2/<13)	16 (0/2) (<9/<23)	D-QUAD 4 INDICATOR J.D. CARMICHAEL 1.6 MILES NNW OF SITE	0
	N/A		29 (0/8) (<8/<50)	20 (0/2) (<4/<35)	31 (0/2) (<28/<34)	D-QUAD 3 INDICATOR JIM BLOOM 3.9 MILES SSW OF SITE	0	
	N/A		13 (0/8) (<3/<23)	7 (0/2) (<2/<13)	18 (0/2) (<14/<23)	D-QUAD 4 INDICATOR J.D. CARMICHAEL 1.6 MILES NNW OF SITE	0	
	N/A		30 (0/8) (<8/<47)	17 (0/2) (<4/<30)	33 (0/2) (<19/<47)	D-QUAD 1 INDICATOR CHRIS LOCKNAR 2.8 MILES NE OF SITE	0	
	ZRNB-95		N/A	14 (0/8) (<3/<24)	8 (0/2) (<2/<15)	16 (0/2) (<9/<24)	D-QUAD 1 INDICATOR CHRIS LOCKNAR 2.8 MILES NE OF SITE	0

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 3RD QUARTER SUMMARY FOR
DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY: DRESDEN		DOCKET NUMBER: 50-010, 50-237 & 50-249				REPORTING PERIOD: 3RD QUARTER 2006			
LOCATION OF FACILITY: MORRIS, IL				INDICATOR CONTROL		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)	INDICATOR MEAN (F) RANGE	CONTROL MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN MEAN (F) RANGE	STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTINE REPORTED MEASUREMENTS	
VEGETATION (PCI/KG WET)	I-131		60	38 (0/8) (<8/<55)	23 (0/2) (<4/<42)	51 (0/2) (<47/<55)	D-QUAD 4 INDICATOR J.D. CARMICHAEL 1.6 MILES NNW OF SITE	0	
	CS-134		60	11 (0/8) (<3/<18)	7 (0/2) (<1/<13)	12 (0/2) (<6/<18)	D-QUAD 1 INDICATOR CHRIS LOCKNAR 2.8 MILES NE OF SITE	0	
	CS-137		80	13 (0/8) (<3/<21)	9 (0/2) (<2/<17)	15 (0/2) (<8/<21)	D-QUAD 1 INDICATOR CHRIS LOCKNAR 2.8 MILES NE OF SITE	0	
	BALA140		N/A	30 (0/8) (<5/<55)	10 (0/2) (<2/<18)	49 (0/2) (<42/<55)	D-QUAD 4 INDICATOR J.D. CARMICHAEL 1.6 MILES NNW OF SITE	0	
DIRECT RADIATION (MILLI-ROENTGEN/QTR.)	TLD-QUARTERLY	92	N/A	21 (90/90) (16/27)	20 (2/2) (19/20)	27 (1/1) (27)	D-110-4 INDICATOR* 0.9 MILES SSW	0	

A - 24

* D-201-2 also read 27 mrem.

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 4TH QUARTER SUMMARY FOR
DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY: DRESDEN		DOCKET NUMBER: 50-010, 50-237 & 50-249		REPORTING PERIOD: 4TH QUARTER 2006		LOCATION WITH HIGHEST ANNUAL MEAN		
LOCATION OF FACILITY: MORRIS, IL								
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	MEAN (F) RANGE	STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
SURFACE WATER (PCI/LITER)	GR-B	12	4	6.5 (3/3) (4.7/ 8.5)	5.5 (9/9) (3.7/ 7.9)	6.5 (3/3) (4.7/ 8.5)	D-51 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0
	H-3	4	2000	236 (1/1) (236)	444 (1/3) (<181/968)	968 (1/1) (968)	D-57 CONTROL KANKAKEE RIVER AT WILL ROAD(CONTROL) 2.0 MILES SE OF SITE	0
	GAMMA MN-54	12	15	4 (0/3) (<2/<8)	3 (0/9) (<1/<8)	4 (0/3) (<2/<8)	D-57 CONTROL KANKAKEE RIVER AT WILL ROAD(CONTROL) 2.0 MILES SE OF SITE	0
	CO-58		15	5 (0/3) (<2/<10)	3 (0/9) (<1/<8)	5 (0/3) (<2/<10)	D-51 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0
	FE-59		30	10 (0/3) (<5/<21)	6 (0/9) (<2/<20)	10 (0/3) (<5/<21)	D-51 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0
	CO-60		15	4 (0/3) (<2/<8)	2 (0/9) (<1/<6)	4 (0/3) (<2/<8)	D-51 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0
	ZN-65		30	9 (0/3) (<3/<17)	5 (0/9) (<1/<13)	9 (0/3) (<3/<17)	D-51 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0
	NB-95		15	5 (0/3) (<2/<10)	3 (0/9) (<1/<10)	5 (0/3) (<2/<10)	D-57 CONTROL KANKAKEE RIVER AT WILL ROAD(CONTROL) 2.0 MILES SE OF SITE	0

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 4TH QUARTER SUMMARY FOR
DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY: DRESDEN		DOCKET NUMBER: 50-010, 50-237 & 50-249				REPORTING PERIOD: 4TH QUARTER 2006			
LOCATION OF FACILITY: MORRIS, IL				INDICATOR	CONTROL	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 NONROUTINE REPORTED MEASUREMENTS	
SURFACE WATER (PCI/LITER)	ZR-95		30	9 (0/3) (<3/<18)	5 (0/9) (<1/<16)	9 (0/3) (<3/<18)	D-51 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0	
	I-131		15	11 (0/3) (<8/<15)	11 (0/9) (<7/<14)	11 (0/3) (<9/<14)	D-52 CONTROL DESPLAINES RIVER - UPSTREAM 1.1 MILES ESE OF SITE	0	
	CS-134		15	4 (0/3) (<2/<7)	2 (0/9) (<1/<7)	4 (0/3) (<2/<7)	D-57 CONTROL KANKAKEE RIVER AT WILL ROAD(CONTROL) 2.0 MILES SE OF SITE	0	
	CS-137		18	4 (0/3) (<2/<7)	3 (0/9) (<1/<8)	4 (0/3) (<2/<8)	D-57 CONTROL KANKAKEE RIVER AT WILL ROAD(CONTROL) 2.0 MILES SE OF SITE	0	
	BA-140		60	19 (0/3) (<11/<26)	19 (0/9) (<9/<30)	20 (0/3) (<12/<30)	D-52 CONTROL DESPLAINES RIVER - UPSTREAM 1.1 MILES ESE OF SITE	0	
	LA-140		15	7 (0/3) (<4/<11)	6 (0/9) (<3/<12)	8 (0/3) (<4/<12)	D-57 CONTROL KANKAKEE RIVER AT WILL ROAD(CONTROL) 2.0 MILES SE OF SITE	0	
	GROUND WATER (PCI/LITER)	H-3	4	2000	472 (3/4) (<131/728)	N/A	585 (3/3) (340/728)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0
GAMMA MN-54		4	15	2 (0/4) (<0/<4)	N/A	2 (0/3) (<0/<4)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0	

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 4TH QUARTER SUMMARY FOR
DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY: DRESDEN		DOCKET NUMBER: 50-010, 50-237 & 50-249				REPORTING PERIOD: 4TH QUARTER 2006			
LOCATION OF FACILITY: MORRIS, IL				INDICATOR	CONTROL	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 NONROUTINE REPORTED MEASUREMENTS	
GROUND WATER (PCI/LITER)	CO-58		15	2 (0/4) (<0/<5)	N/A	2 (0/3) (<0/<5)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0	
	FE-59		30	4 (0/4) (<1/<9)	N/A	5 (0/3) (<1/<9)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0	
	CO-60		15	2 (0/4) (<0/<4)	N/A	2 (0/3) (<0/<4)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0	
	ZN-65		30	4 (0/4) (<1/<10)	N/A	5 (0/3) (<1/<10)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0	
	NB-95		15	2 (0/4) (<0/<6)	N/A	3 (0/3) (<0/<6)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0	
	ZR-95		30	3 (0/4) (<1/<8)	N/A	4 (0/3) (<1/<8)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0	
	I-131		15	9 (0/4) (<1/<14)	N/A	11 (0/1) (<11)	D-35 INDICATOR DRESDEN LOCK AND DAM 0.8 MILES NW OF SITE	0	
	CS-134		15	2 (0/4) (<0/<4)	N/A	2 (0/3) (<0/<4)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0	

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DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY: DRESDEN		DOCKET NUMBER: 50-010, 50-237 & 50-249				REPORTING PERIOD: 4TH QUARTER 2006			
LOCATION OF FACILITY: MORRIS, IL				INDICATOR	CONTROL	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 NONROUTINE REPORTED MEASUREMENTS	
GROUND WATER (PCI/LITER)	CS-137		18	2 (0/4) (<0/<4)	N/A	2 (0/3) (<0/<4)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0	
	BA-140		60	15 (0/4) (<3/<22)	N/A	15 (0/1) (<15)	D-35 INDICATOR DRESDEN LOCK AND DAM 0.8 MILES NW OF SITE	0	
	LA-140		15	5 (0/4) (<1/<9)	N/A	5 (0/3) (<1/<9)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0	
FISH (PCI/KG WET)	GAMMA MN-54	4	130	77 (0/2) (<75/<80)	51 (0/2) (<38/<64)	77 (0/2) (<75/<80)	D-28 INDICATOR DRESDEN POOL OF ILL. RIVER 0.9 MILES NW OF SITE	0	
	CO-58		130	82 (0/2) (<70/<95)	65 (0/2) (<65/<66)	82 (0/2) (<70/<95)	D-28 INDICATOR DRESDEN POOL OF ILL. RIVER 0.9 MILES NW OF SITE	0	
	FE-59		260	208 (0/2) (<201/<215)	169 (0/2) (<149/<189)	208 (0/2) (<201/<215)	D-28 INDICATOR DRESDEN POOL OF ILL. RIVER 0.9 MILES NW OF SITE	0	
	CO-60		130	53 (0/2) (<49/<56)	50 (0/2) (<46/<53)	53 (0/2) (<49/<56)	D-28 INDICATOR DRESDEN POOL OF ILL. RIVER 0.9 MILES NW OF SITE	0	
	ZN-65		260	155 (0/2) (<125/<184)	139 (0/2) (<101/<176)	155 (0/2) (<125/<184)	D-28 INDICATOR DRESDEN POOL OF ILL. RIVER 0.9 MILES NW OF SITE	0	

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FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 4TH QUARTER SUMMARY FOR
DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY: DRESDEN				DOCKET NUMBER: 50-010, 50-237 & 50-249				
LOCATION OF FACILITY: MORRIS, IL				REPORTING PERIOD: 4TH QUARTER 2006				
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	CONTROL	LOCATION WITH HIGHEST ANNUAL MEAN		NUMBER OF NONROUTINE REPORTED MEASUREMENTS
				LOCATIONS MEAN (F) RANGE	LOCATION MEAN (F) RANGE	MEAN (F) RANGE	STATIONS # NAME DISTANCE AND DIRECTION	
FISH (PCI/KG WET)	ZRNB-95		N/A	93 (0/2) (<89/<97)	71 (0/2) (<55/<87)	93 (0/2) (<89/<97)	D-28 INDICATOR DRESDEN POOL OF ILL. RIVER 0.9 MILES NW OF SITE	0
	CS-134		130	69 (0/2) (<68/<69)	56 (0/2) (<48/<64)	69 (0/2) (<68/<69)	D-28 INDICATOR DRESDEN POOL OF ILL. RIVER 0.9 MILES NW OF SITE	0
	CS-137		150	72 (0/2) (<70/<73)	58 (0/2) (<47/<68)	72 (0/2) (<70/<73)	D-28 INDICATOR DRESDEN POOL OF ILL. RIVER 0.9 MILES NW OF SITE	0
	BALA140		N/A	377 (0/2) (<356/<397)	337 (0/2) (<293/<381)	377 (0/2) (<356/<397)	D-28 INDICATOR DRESDEN POOL OF ILL. RIVER 0.9 MILES NW OF SITE	0
SEDIMENT (PCI/KG DRY)	GAMMA MN-54	1	N/A	45 (0/1) (<45)	N/A	45 (0/1) (<45)	D-27 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0
	CO-58		N/A	36 (0/1) (<36)	N/A	36 (0/1) (<36)	D-27 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0
	FE-59		N/A	108 (0/1) (<108)	N/A	108 (0/1) (<108)	D-27 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0
	CO-60		N/A	40 (0/1) (<40)	N/A	40 (0/1) (<40)	D-27 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 4TH QUARTER SUMMARY FOR
DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY: DRESDEN		DOCKET NUMBER: 50-010, 50-237 & 50-249		REPORTING PERIOD: 4TH QUARTER 2006		LOCATION WITH HIGHEST ANNUAL MEAN		
LOCATION OF FACILITY: MORRIS, IL								
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	MEAN (F) RANGE	STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
SEDIMENT (PCI/KG DRY)	ZN-65		N/A	90 (0/1) (<90)	N/A	90 (0/1) (<90)	D-27 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0
	ZRNB-95		N/A	54 (0/1) (<54)	N/A	54 (0/1) (<54)	D-27 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0
	CS-134		150	38 (0/1) (<38)	N/A	38 (0/1) (<38)	D-27 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0
	CS-137		180	86 (1/1) (86)	N/A	86 (1/1) (86)	D-27 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0
	BALA140		N/A	102 (0/1) (<102)	N/A	102 (0/1) (<102)	D-27 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0
AIR PARTICULATE (E-3 PCI/CU.METER)	GR-B	182	10	22 (169/169) (10/39)	22 (13/13) (16/32)	25 (13/13) (14/39)	D-08 INDICATOR PRAIRIE PARK 3.8 MILES SW OF SITE	0
	GAMMA MN-54	14	N/A	2.3 (0/13) (< 1.1/< 3.3)	1.1 (0/1) (< 1.1)	3.3 (0/1) (< 3.3)	D-13 INDICATOR MINOOKA 4.4 MILES N OF SITE	0
	CO-58		N/A	2.7 (0/13) (< 1.4/< 4.0)	2.2 (0/1) (< 2.2)	4.0 (0/1) (< 4.0)	D-45 INDICATOR MCKINLEY WOODS ROAD 1.7 MILES ENE OF SITE	0

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 4TH QUARTER SUMMARY FOR
DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY: DRESDEN		DOCKET NUMBER: 50-010, 50-237 & 50-249						
LOCATION OF FACILITY: MORRIS, IL		REPORTING PERIOD: 4TH QUARTER 2006						
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	CONTROL	LOCATION WITH HIGHEST ANNUAL MEAN		NUMBER OF NONROUTINE REPORTED MEASUREMENTS
				LOCATIONS MEAN (F) RANGE	LOCATION MEAN (F) RANGE	MEAN (F) RANGE	STATIONS # NAME DISTANCE AND DIRECTION	
AIR PARTICULATE (E-3 PCI/CU.METER)	FE-59		N/A	7.3 (0/13) (< 4.5/< 9.8)	4.5 (0/1) (< 4.5)	9.8 (0/1) (< 9.8)	D-56 INDICATOR WILDFEATHER 1.7 MILES SE OF SITE	0
	CO-60		N/A	2.4 (0/13) (< 1.1/< 3.8)	1.4 (0/1) (< 1.4)	3.8 (0/1) (< 3.8)	D-55 INDICATOR RIDGE ROAD 4.3 MILES N OF SITE	0
	ZN-65		N/A	5.0 (0/13) (< 2.6/< 7.8)	3.0 (0/1) (< 3.0)	7.8 (0/1) (< 7.8)	D-08 INDICATOR PRAIRIE PARK 3.8 MILES SW OF SITE	0
	ZRNB-95		N/A	2.8 (0/13) (< 1.3/< 3.7)	1.6 (0/1) (< 1.6)	3.7 (0/1) (< 3.7)	D-08 INDICATOR PRAIRIE PARK 3.8 MILES SW OF SITE	0
	CS-134		50	2.5 (0/13) (< 1.2/< 3.2)	1.4 (0/1) (< 1.4)	3.2 (0/1) (< 3.2)	D-13 INDICATOR MINOOKA 4.4 MILES N OF SITE	0
	CS-137		60	2.4 (0/13) (< 1.1/< 3.1)	1.3 (0/1) (< 1.3)	3.1 (0/1) (< 3.1)	D-07 INDICATOR CLAY PRODUCTS 2.6 MILES S OF SITE	0
	BALA140		N/A	13.2 (0/13) (< 7.8/<23.7)	14.7 (0/1) (<14.7)	23.7 (0/1) (<23.7)	D-13 INDICATOR MINOOKA 4.4 MILES N OF SITE	0
AIR IODINE (E-3 PCI/CU.METER)	GAMMA I-131	182	70	44 (0/169) (<12/<69)	49 (0/13) (<27/<66)	49 (0/13) (<27/<66)	D-12 CONTROL LISBON 10.5 MILES NW OF SITE	0

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 4TH QUARTER SUMMARY FOR
DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY:		DRESDEN			DOCKET NUMBER:		50-010, 50-237 & 50-249		
LOCATION OF FACILITY:		MORRIS, IL			REPORTING PERIOD:		4TH QUARTER 2006		
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	CONTROL	LOCATION WITH HIGHEST ANNUAL MEAN			NUMBER OF NONROUTINE REPORTED MEASUREMENTS
				LOCATIONS MEAN (F) RANGE	LOCATION MEAN (F) RANGE	MEAN (F) RANGE	STATIONS # NAME DISTANCE AND DIRECTION		
MILK (PCI/LITER)	I-131	4	1	N/A	0.5 (0/4) (<0.3/<0.7)	0.5 (0/4) (<0.3/<0.7)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0	
	GAMMA MN-54	4	N/A	N/A	6 (0/4) (<5/<6)	6 (0/4) (<5/<6)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0	
	CO-58		N/A	N/A	6 (0/4) (<5/<7)	6 (0/4) (<5/<7)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0	
	FE-59		N/A	N/A	15 (0/4) (<14/<17)	15 (0/4) (<14/<17)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0	
	CO-60		N/A	N/A	6 (0/4) (<5/<7)	6 (0/4) (<5/<7)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0	
	ZN-65		N/A	N/A	13 (0/4) (<10/<16)	13 (0/4) (<10/<16)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0	
	ZRNB-95		N/A	N/A	6 (0/4) (<6/<7)	6 (0/4) (<6/<7)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0	
	CS-134		15	N/A	5 (0/4) (<5/<6)	5 (0/4) (<5/<6)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0	

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 4TH QUARTER SUMMARY FOR
DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY: DRESDEN		DOCKET NUMBER: 50-010, 50-237 & 50-249						
LOCATION OF FACILITY: MORRIS, IL		REPORTING PERIOD: 4TH QUARTER 2006						
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 NONROUTINE REPORTED MEASUREMENTS
MILK (PCI/LITER)	CS-137	-	18	N/A	6 (0/4) (<5/<6)	6 (0/4) (<5/<6)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0
	BA-140		60	N/A	43 (0/4) (<40/<49)	43 (0/4) (<40/<49)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0
	LA-140		15	N/A	11 (0/4) (<8/<14)	11 (0/4) (<8/<14)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0
DIRECT RADIATION (MILLI-ROENTGEN/QTR.)	TLD-QUARTERLY	92	N/A	25 (90/90) (19/32)	22 (2/2) (20/23)	32 (1/1) (32)	D-201-2 INDICATOR 4.8 MILES N	0

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM ANNUAL SUMMARY FOR
DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY:		DRESDEN			DOCKET NUMBER:		50-010, 50-237 & 50-249		
LOCATION OF FACILITY:		MORRIS, IL			REPORTING PERIOD:		ANNUAL 2006		
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	CONTROL	LOCATION WITH HIGHEST ANNUAL MEAN			
				LOCATIONS MEAN (F) RANGE	LOCATION MEAN (F) RANGE	MEAN (F) RANGE	STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTINE REPORTED MEASUREMENTS	
SURFACE WATER (PCI/LITER)	GR-B	42	4	7.0 (12/12) (4.7/9.8)	5.4 (29/30) (<3.0/8.2)	7.0 (12/12) (4.7/9.8)	D-51 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0	
	H-3	13	2000	199 (1/4) (<185/236)	272 (1/9) (<181/968)	968 (1/1) (968)	D-57 CONTROL KANKAKEE RIVER AT WILL ROAD(CONTROL) 2.0 MILES SE OF SITE	0	
	GAMMA MN-54	42	15	3 (0/12) (<1/<8)	2 (0/30) (<1/<8)	3 (0/6) (<1/<8)	D-57 CONTROL KANKAKEE RIVER AT WILL ROAD(CONTROL) 2.0 MILES SE OF SITE	0	
	CO-58		15	3 (0/12) (<1/<10)	3 (0/30) (<1/<8)	3 (0/12) (<1/<10)	D-51 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0	
	FE-59		30	7 (0/12) (<3/<21)	6 (0/30) (<2/<20)	8 (0/6) (<2/<20)	D-57 CONTROL KANKAKEE RIVER AT WILL ROAD(CONTROL) 2.0 MILES SE OF SITE	0	
	CO-60		15	3 (0/12) (<1/<8)	2 (0/30) (<1/<6)	3 (0/12) (<1/<8)	D-51 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0	
	ZN-65		30	6 (0/12) (<2/<17)	5 (0/30) (<1/<13)	6 (0/12) (<2/<17)	D-51 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0	
	NB-95		15	3 (0/12) (<1/<10)	3 (0/30) (<1/<10)	4 (0/6) (<1/<10)	D-57 CONTROL KANKAKEE RIVER AT WILL ROAD(CONTROL) 2.0 MILES SE OF SITE	0	

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM ANNUAL SUMMARY FOR
DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY: DRESDEN				DOCKET NUMBER: 50-010, 50-237 & 50-249				
LOCATION OF FACILITY: MORRIS, IL				REPORTING PERIOD: ANNUAL 2006				
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	CONTROL	LOCATION WITH HIGHEST ANNUAL MEAN		
				LOCATIONS MEAN (F) RANGE	LOCATION MEAN (F) RANGE	MEAN (F) RANGE	STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
SURFACE WATER (PCI/LITER)	ZR-95		30	6 (0/12) (<2/<18)	5 (0/30) (<1/<16)	6 (0/6) (<2/<16)	D-57 CONTROL KANKAKEE RIVER AT WILL ROAD(CONTROL) 2.0 MILES SE OF SITE	0
	I-131		15	12 (0/12) (<8/<15)	13 (0/30) (<7/<15)	13 (0/12) (<9/<15)	D-52 CONTROL DESPLAINES RIVER - UPSTREAM 1.1 MILES ESE OF SITE	0
	CS-134		15	3 (0/12) (<1/<7)	2 (0/30) (<1/<7)	3 (0/12) (<1/<7)	D-51 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0
	CS-137		18	3 (0/12) (<1/<7)	3 (0/30) (<1/<8)	3 (0/6) (<1/<8)	D-57 CONTROL KANKAKEE RIVER AT WILL ROAD(CONTROL) 2.0 MILES SE OF SITE	0
	BA-140		60	24 (0/12) (<11/<41)	22 (0/30) (<9/<34)	25 (0/12) (<12/<34)	D-52 CONTROL DESPLAINES RIVER - UPSTREAM 1.1 MILES ESE OF SITE	0
	LA-140		15	8 (0/12) (<4/<12)	7 (0/30) (<3/<12)	8 (0/12) (<4/<11)	D-52 CONTROL DESPLAINES RIVER - UPSTREAM 1.1 MILES ESE OF SITE	0
GROUND WATER (PCI/LITER)	H-3	15	2000	520 (11/15) (<131/729)	N/A	651 (11/11) (340/729)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0
	GAMMA MN-54	15	15	4 (0/15) (<0/<9)	N/A	4 (0/11) (<0/<8)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM ANNUAL SUMMARY FOR
DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY: DRESDEN				DOCKET NUMBER: 50-010, 50-237 & 50-249				
LOCATION OF FACILITY: MORRIS, IL				REPORTING PERIOD: ANNUAL 2006				
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 NONROUTINE REPORTED MEASUREMENTS
GROUND WATER (PCI/LITER)	CO-58		15	4 (0/15) (<0/<9)	N/A	5 (0/11) (<0/<9)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0
	FE-59		30	9 (0/15) (<1/<18)	N/A	9 (0/11) (<1/<18)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0
	CO-60		15	4 (0/15) (<0/<9)	N/A	5 (0/11) (<0/<8)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0
	ZN-65		30	10 (0/15) (<1/<23)	N/A	10 (0/11) (<1/<23)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0
	NB-95		15	5 (0/15) (<0/<10)	N/A	5 (0/11) (<0/<10)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0
	ZR-95		30	8 (0/15) (<1/<18)	N/A	8 (0/11) (<1/<18)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0
	I-131		15	11 (0/15) (<1/<14)	N/A	13 (0/4) (<11/<14)	D-35 INDICATOR DRESDEN LOCK AND DAM 0.8 MILES NW OF SITE	0
	CS-134		15	5 (0/15) (<0/<13)	N/A	5 (0/11) (<0/<13)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0

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DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY: DRESDEN		DOCKET NUMBER: 50-010, 50-237 & 50-249		REPORTING PERIOD: ANNUAL 2006		LOCATION WITH HIGHEST ANNUAL MEAN		
LOCATION OF FACILITY: MORRIS, IL								
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	MEAN (F) RANGE	STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GROUND WATER (PCI/LITER)	CS-137		18	5 (0/15) (<0/<9)	N/A	5 (0/11) (<0/<9)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0
	BA-140		60	27 (0/15) (<3/<48)	N/A	27 (0/11) (<3/<48)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0
	LA-140		15	9 (0/15) (<1/<15)	N/A	9 (0/11) (<1/<15)	D-23 INDICATOR THORSEN WELL 0.7 MILES S OF SITE	0
FISH (PCI/KG WET)	GAMMA MN-54	8	130	69 (0/4) (<62/<80)	51 (0/4) (<38/<64)	69 (0/4) (<62/<80)	D-28 INDICATOR DRESDEN POOL OF ILL. RIVER 0.9 MILES NW OF SITE	0
	CO-58		130	84 (0/4) (<70/<95)	68 (0/4) (<65/<71)	84 (0/4) (<70/<95)	D-28 INDICATOR DRESDEN POOL OF ILL. RIVER 0.9 MILES NW OF SITE	0
	FE-59		260	218 (0/4) (<201/<237)	173 (0/4) (<149/<189)	218 (0/4) (<201/<237)	D-28 INDICATOR DRESDEN POOL OF ILL. RIVER 0.9 MILES NW OF SITE	0
	CO-60		130	55 (0/4) (<49/<59)	52 (0/4) (<46/<60)	55 (0/4) (<49/<59)	D-28 INDICATOR DRESDEN POOL OF ILL. RIVER 0.9 MILES NW OF SITE	0
	ZN-65		260	153 (0/4) (<125/<184)	132 (0/4) (<101/<176)	153 (0/4) (<125/<184)	D-28 INDICATOR DRESDEN POOL OF ILL. RIVER 0.9 MILES NW OF SITE	0

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM ANNUAL SUMMARY FOR
DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY: DRESDEN				DOCKET NUMBER: 50-010, 50-237 & 50-249				
LOCATION OF FACILITY: MORRIS, IL				REPORTING PERIOD: ANNUAL 2006				
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	CONTROL	LOCATION WITH HIGHEST ANNUAL MEAN		
				LOCATIONS MEAN (F) RANGE	LOCATION MEAN (F) RANGE	MEAN (F) RANGE	STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
FISH (PCI/KG WET)	ZRNB-95		N/A	89 (0/4) (<79/<97)	73 (0/4) (<55/<87)	89 (0/4) (<79/<97)	D-28 INDICATOR DRESDEN POOL OF ILL. RIVER 0.9 MILES NW OF SITE	0
	CS-134		130	66 (0/4) (<57/<69)	54 (0/4) (<47/<64)	66 (0/4) (<57/<69)	D-28 INDICATOR DRESDEN POOL OF ILL. RIVER 0.9 MILES NW OF SITE	0
	CS-137		150	69 (0/4) (<64/<73)	56 (0/4) (<47/<68)	69 (0/4) (<64/<73)	D-28 INDICATOR DRESDEN POOL OF ILL. RIVER 0.9 MILES NW OF SITE	0
	BALA140		N/A	518 (0/4) (<356/<739)	442 (0/4) (<293/<573)	518 (0/4) (<356/<739)	D-28 INDICATOR DRESDEN POOL OF ILL. RIVER 0.9 MILES NW OF SITE	0
SEDIMENT (PCI/KG DRY)	GAMMA MN-54	2	N/A	71 (0/2) (<45/<97)	N/A	71 (0/2) (<45/<97)	D-27 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0
	CO-58		N/A	69 (0/2) (<36/<101)	N/A	69 (0/2) (<36/<101)	D-27 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0
	FE-59		N/A	162 (0/2) (<108/<216)	N/A	162 (0/2) (<108/<216)	D-27 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0
	CO-60		N/A	70 (0/2) (<40/<99)	N/A	70 (0/2) (<40/<99)	D-27 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0

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DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY: DRESDEN		DOCKET NUMBER: 50-010, 50-237 & 50-249						
LOCATION OF FACILITY: MORRIS, IL		REPORTING PERIOD: ANNUAL 2006						
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	CONTROL	LOCATION WITH HIGHEST ANNUAL MEAN		
				LOCATIONS MEAN (F) RANGE	LOCATION MEAN (F) RANGE	MEAN (F) RANGE	STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
SEDIMENT (PCI/KG DRY)	ZN-65		N/A	197 (0/2) (<90/<305)	N/A	197 (0/2) (<90/<305)	D-27 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0
	ZRNB-95		N/A	95 (0/2) (<54/<136)	N/A	95 (0/2) (<54/<136)	D-27 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0
	CS-134		150	82 (0/2) (<38/<126)	N/A	82 (0/2) (<38/<126)	D-27 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0
	CS-137		180	114 (2/2) (86/142)	N/A	114 (2/2) (86/142)	D-27 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0
	BALA140		N/A	174 (0/2) (<102/<246)	N/A	174 (0/2) (<102/<246)	D-27 INDICATOR DRESDEN LOCK AND DAM - DOWNSTREAM 0.8 MILES NW OF SITE	0
AIR PARTICULATE (E-3 PCI/CU.METER)	GR-B	699	10	19 (644/647) (<5/39)	19 (52/52) (6/35)	22 (23/23) (10/34)	D-56 INDICATOR WILDFEATHER 1.7 MILES SE OF SITE	0
	GAMMA MN-54	54	N/A	3.6 (0/50) (< 1.1/< 8.1)	3.5 (0/4) (< 1.1/< 6.7)	4.5 (0/2) (< 2.6/< 6.5)	D-56 INDICATOR WILDFEATHER 1.7 MILES SE OF SITE	0
	CO-58		N/A	5.1 (0/50) (< 1.4/<11.3)	5.6 (0/4) (< 1.6/<13.1)	6.1 (0/2) (< 3.6/< 8.7)	D-56 INDICATOR WILDFEATHER 1.7 MILES SE OF SITE	0

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM ANNUAL SUMMARY FOR
DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY: DRESDEN				DOCKET NUMBER: 50-010, 50-237 & 50-249					
LOCATION OF FACILITY: MORRIS, IL				REPORTING PERIOD: ANNUAL 2006					
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	CONTROL	LOCATION WITH HIGHEST ANNUAL MEAN		NUMBER OF NONROUTINE REPORTED MEASUREMENTS	
				LOCATIONS MEAN (F) RANGE	LOCATION MEAN (F) RANGE	MEAN (F) RANGE	STATIONS # NAME DISTANCE AND DIRECTION		
AIR PARTICULATE (E-3 PCI/CU.METER)	FE-59		N/A	16.8 (0/50) (< 4.5/<37.6)	15 (0/4) (< 4.5/<34.1)	23.1 (0/2) (< 9.8/<36.4)	D-56 INDICATOR WILDFEATHER 1.7 MILES SE OF SITE	0	
	CO-60		N/A	3.4 (0/50) (< 1.1/< 8.0)	2.3 (0/4) (< 1.4/< 3.2)	4.2 (0/2) (< 3.4/< 4.9)	D-56 INDICATOR WILDFEATHER 1.7 MILES SE OF SITE	0	
	ZN-65		N/A	8.5 (0/50) (< 2.6/<20.2)	7.3 (0/4) (< 3.0/<14.8)	10.9 (0/4) (< 5.2/<20.2)	D-10 INDICATOR GOOSE LAKE VILLAGE 3.5 MILES SSW OF SITE	0	
	ZRNB-95		N/A	6.2 (0/50) (< 1.3/<13.7)	5.4 (0/4) (< 1.6/< 9.1)	7.3 (0/2) (< 3.6/<11)	D-56 INDICATOR WILDFEATHER 1.7 MILES SE OF SITE	0	
	CS-134		50	3.5 (0/50) (< 1.2/< 7.6)	2.9 (0/4) (< 1.4/< 5.5)	4.5 (0/4) (< 2.4/< 7.6)	D-10 INDICATOR GOOSE LAKE VILLAGE 3.5 MILES SSW OF SITE	0	
	CS-137		60	3.2 (0/50) (< 1.1/< 7.6)	2.9 (0/4) (< 1.3/< 4.8)	4.3 (0/4) (< 2.6/< 7.6)	D-10 INDICATOR GOOSE LAKE VILLAGE 3.5 MILES SSW OF SITE	0	
	BALA140		N/A	176.7 (0/50) (< 7.8/<481)	184.4 (0/4) (<14.7/<356)	228.6 (0/4) (<11.4/<458)	D-14 INDICATOR CHANNAHON 3.7 MILES NE OF SITE	0	
AIR IODINE (E-3 PCI/CU.METER)	GAMMA I-131	699	70	45 (0/647) (<10/<167)	46 (0/52) (<18/<67)	47 (0/52) (<18/<69)	D-13 INDICATOR MINOOKA 4.4 MILES N OF SITE	0	

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM ANNUAL SUMMARY FOR
DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY: DRESDEN		DOCKET NUMBER: 50-010, 50-237 & 50-249						
LOCATION OF FACILITY: MORRIS, IL		REPORTING PERIOD: ANNUAL 2006						
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	CONTROL	LOCATION WITH HIGHEST ANNUAL MEAN		NUMBER OF NONROUTINE REPORTED MEASUREMENTS
				LOCATIONS MEAN (F) RANGE	LOCATION MEAN (F) RANGE	MEAN (F) RANGE	STATIONS # NAME DISTANCE AND DIRECTION	
MILK (PCI/LITER)	I-131	19	1	N/A	0.7 (0/19) (<0.3/<2.9)	0.7 (0/19) (<0.3/<2.9)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0
	GAMMA MN-54	19	N/A	N/A	7 (0/19) (<5/<10)	7 (0/19) (<5/<10)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0
	CO-58		N/A	N/A	7 (0/19) (<5/<9)	7 (0/19) (<5/<9)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0
	FE-59		N/A	N/A	17 (0/19) (<12/<23)	17 (0/19) (<12/<23)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0
	CO-60		N/A	N/A	7 (0/19) (<5/<12)	7 (0/19) (<5/<12)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0
	ZN-65		N/A	N/A	17 (0/19) (<10/<25)	17 (0/19) (<10/<25)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0
	ZRNB-95		N/A	N/A	8 (0/19) (<5/<11)	8 (0/19) (<5/<11)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0
	CS-134		15	N/A	7 (0/19) (<4/<13)	7 (0/19) (<4/<13)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE	0

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM ANNUAL SUMMARY FOR
DRESDEN NUCLEAR POWER STATION, 2006**

NAME OF FACILITY:		DRESDEN			DOCKET NUMBER:		50-010, 50-237 & 50-249			
LOCATION OF FACILITY:		MORRIS, IL			REPORTING PERIOD:		ANNUAL 2006			
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	CONTROL	LOCATION WITH HIGHEST ANNUAL MEAN			NUMBER OF NONROUTINE REPORTED MEASUREMENTS	
				LOCATIONS MEAN (F) RANGE	LOCATION MEAN (F) RANGE	MEAN (F) RANGE	STATIONS # NAME DISTANCE AND DIRECTION			
MILK (PCI/LITER)	CS-137		18	N/A	7 (0/19) (<5/<11)	7 (0/19) (<5/<11)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE			0
	BA-140		60	N/A	39 (0/19) (<27/<51)	39 (0/19) (<27/<51)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE			0
	LA-140		15	N/A	11 (0/19) (<8/<15)	11 (0/19) (<8/<15)	D-25 CONTROL BIROS FARM 11.3 MILES SW OF SITE			0
VEGETATION (PCI/KG WET)	GAMMA MN-54	10	N/A	13 (0/8) (<3/<23)	7 (0/2) (<2/<13)	17 (0/2) (<15/<19)	D-QUAD 4 INDICATOR J.D. CARMICHAEL 1.6 MILES NNW OF SITE			0
	CO-58		N/A	14 (0/8) (<3/<23)	7 (0/2) (<2/<13)	16 (0/2) (<9/<23)	D-QUAD 4 INDICATOR J.D. CARMICHAEL 1.6 MILES NNW OF SITE			0
	FE-59		N/A	29 (0/8) (<8/<50)	20 (0/2) (<4/<35)	31 (0/2) (<28/<34)	D-QUAD 3 INDICATOR JIM BLOOM 3.9 MILES SSW OF SITE			0
	CO-60		N/A	13 (0/8) (<3/<23)	7 (0/2) (<2/<13)	18 (0/2) (<14/<23)	D-QUAD 4 INDICATOR J.D. CARMICHAEL 1.6 MILES NNW OF SITE			0
	ZN-65		N/A	30 (0/8) (<8/<47)	17 (0/2) (<4/<30)	33 (0/2) (<19/<47)	D-QUAD 1 INDICATOR CHRIS LOCKNAR 2.8 MILES NE OF SITE			0

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NAME OF FACILITY: DRESDEN		DOCKET NUMBER: 50-010, 50-237 & 50-249						
LOCATION OF FACILITY: MORRIS, IL		REPORTING PERIOD: ANNUAL 2006						
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	CONTROL	LOCATION WITH HIGHEST ANNUAL MEAN		NUMBER OF NONROUTINE REPORTED MEASUREMENTS
				LOCATIONS MEAN (F) RANGE	LOCATION MEAN (F) RANGE	MEAN (F) RANGE	STATIONS # NAME DISTANCE AND DIRECTION	
VEGETATION (PCI/KG WET)	ZRNB-95		N/A	14 (0/8) (<3/<24)	8 (0/2) (<2/<15)	16 (0/2) (<9/<24)	D-QUAD 1 INDICATOR CHRIS LOCKNAR 2.8 MILES NE OF SITE	0
	I-131		60	38 (0/8) (<8/<55)	23 (0/2) (<4/<42)	51 (0/2) (<47/<55)	D-QUAD 4 INDICATOR J.D. CARMICHAEL 1.6 MILES NNW OF SITE	0
	CS-134		60	11 (0/8) (<3/<18)	7 (0/2) (<1/<13)	12 (0/2) (<6/<18)	D-QUAD 1 INDICATOR CHRIS LOCKNAR 2.8 MILES NE OF SITE	0
	CS-137		80	13 (0/8) (<3/<21)	9 (0/2) (<2/<17)	15 (0/2) (<8/<21)	D-QUAD 1 INDICATOR CHRIS LOCKNAR 2.8 MILES NE OF SITE	0
	BALA140		N/A	30 (0/8) (<5/<55)	10 (0/2) (<2/<18)	49 (0/2) (<42/<55)	D-QUAD 4 INDICATOR J.D. CARMICHAEL 1.6 MILES NNW OF SITE	0
DIRECT RADIATION (MILLI-ROENTGEN/QTR.)	TLD-QUARTERLY	368	N/A	25 (360/360) (16/33)	23 (8/8) (19/27)	30 (4/4) (26/33)	D-201-1 INDICATOR 4.8 MILES N	0

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* D-201-2 also read 30 mrem but the range was (27/32).

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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, 2006

Location	Location Description	Distance & Direction From Site
A. <u>Surface Water</u>		
D-51	Dresden Lock and Dam, Downstream (indicator)	0.8 miles NW
D-52	DesPlaines River, Upstream (control)	1.1 miles ESE
D-54	Kankakee River, Upstream (control)	8.7 miles SE
D-57	Kankakee River at Will Road (control)	2.0 miles SE
B. <u>Ground/Well Water</u>		
D-23	Thorsen Well (indicator)	0.7 miles S
D-35	Dresden Lock and Dam (indicator)	0.8 miles NW
C. <u>Milk - bi-weekly / monthly</u>		
D-25	Biros Farm (control)	11.3 miles SW
D. <u>Air Particulates / Air Iodine</u>		
D-01	Onsite 1 (indicator)	0.8 miles NW
D-02	Onsite 2 (indicator)	0.3 miles NNE
D-03	Onsite 3 (indicator)	0.4 miles S
D-04	Collins Road (indicator)	0.8 miles W
D-07	Clay Products (indicator)	2.6 miles S
D-08	Prairie Park (indicator)	3.8 miles SW
D-10	Goose Lake Village (indicator)	3.5 miles SSW
D-12	Lisbon (control)	10.5 miles NW
D-13	Minooka (indicator)	4.4 miles N
D-14	Channahon (indicator)	3.7 miles NE
D-45	McKinley Woods Road (indicator)	1.7 miles ENE
D-53	Grundy County Road (indicator)	2.1 miles SSE
D-55	Ridge Road (indicator)	4.3 miles N
D-56	Wildfeather (indicator)	1.7 miles SE
E. <u>Fish</u>		
D-28	Dresden Pool of Illinois River, Downstream (indicator)	0.9 miles NW
D-46	DesPlaines River, Upstream (control)	1.2 miles ESE
F. <u>Sediment</u>		
D-27	Dresden Lock and Dam, Downstream (indicator)	0.8 miles NW
G. <u>Vegetation</u>		
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

TABLE B-1: Radiological Environmental Monitoring Program - Sampling Locations, Distance and Direction, Dresden Nuclear Power Station, 2006

Location	Location Description	Distance & Direction From Site
<u>H. Environmental Dosimetry - TLD</u>		
<u>Inner Ring</u>		
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		1.7 miles ENE
D-105-1 and -2		1.5 miles E
D-106-1 and -2		1.1 miles ESE
D-107-1 and -2		1.4 miles SE
D-108-1 and -2		1.9 miles SSE
D-109-1 and -2		0.8 miles S
D-110-3 and -4		0.9 miles SSW
D-111-1 and -2		0.6 miles SW
D-112a-1 and -2		0.7 miles WSW
D-113-1 and -2		0.9 miles W
D-114-1 and -2		0.9 miles WNW
D-115-1 and -2		0.8 miles NW
D-116-1 and -2		1.0 miles NNW
<u>Outer Ring</u>		
D-201-1 and -2		4.8 miles N
D-202-1 and -2		5.1 miles NNE
D-203-1 and -2		4.7 miles NE
D-204-1 and -2		5.0 miles ENE
D-205-1 and -2		4.0 miles E
D-206 -1 and -2		3.5 miles ESE
D-207-1 and -2		4.2 miles SE
D-208-1 and -2		4.9 miles SSE
D-209-1 and -2		4.1 miles S
D-210-1 and -2		4.9 miles SSW
D-211-1 and -2		4.8 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		5.0 miles WNW
D-215-1 and -2		4.8 miles NW
D-216-1 and -2		4.9 miles NNW
<u>Other</u>		
D-01-1 and -2	Onsite 1	0.8 miles NW
D-02-1 and -2	Onsite 2	0.3 miles NNE
D-03-1 and -2	Onsite 3	0.4 miles S
D-04-1 and -2	Collins Road	0.8 miles W
D-07-1 and -2	Clay Products	2.6 miles S
D-08-1 and -2	Prairie Park	3.8 miles SW
D-10-1 and -2	Goose Lake Village	3.5 miles SSW
D-13-1 and -2	Minooka	4.4 miles N
D-14-1 and -2	Channahon	3.7 miles NE
D-45-1 and -2	McKinley Woods Road	1.7 miles ENE
D-53-1 and -2	Grundy County Road	2.1 miles SSE
D-55-1 and -2	Ridge Road	4.3 miles N
D-56-1 and -2	Wildfeather	1.7 miles SE

TABLE B-1: Radiological Environmental Monitoring Program - Sampling Locations, Distance and Direction, Dresden Nuclear Power Station, 2006

Location	Location Description	Distance & Direction From Site
<u>Control</u>		
D-12-1 and -2	Lisbon	10.5 miles NW

TABLE B-2: Radiological Environmental Monitoring Program – Summary of Sample Collection and Analytical Methods, Dresden Nuclear Power Station, 2006

Sample Medium	Analysis	Sampling Method	Collection Procedure Number	Sample Size	Analytical Procedure Number
Surface Water	Gamma Spectroscopy	Monthly composite sample or 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
Surface Water	Gross Beta	Monthly composite sample or 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
Surface Water	Tritium	Quarterly composite of monthly composite 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
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
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
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
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

TABLE B-2: Radiological Environmental Monitoring Program – Summary of Sample Collection and Analytical Methods, Dresden Nuclear Power Station, 2006

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
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
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
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
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
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

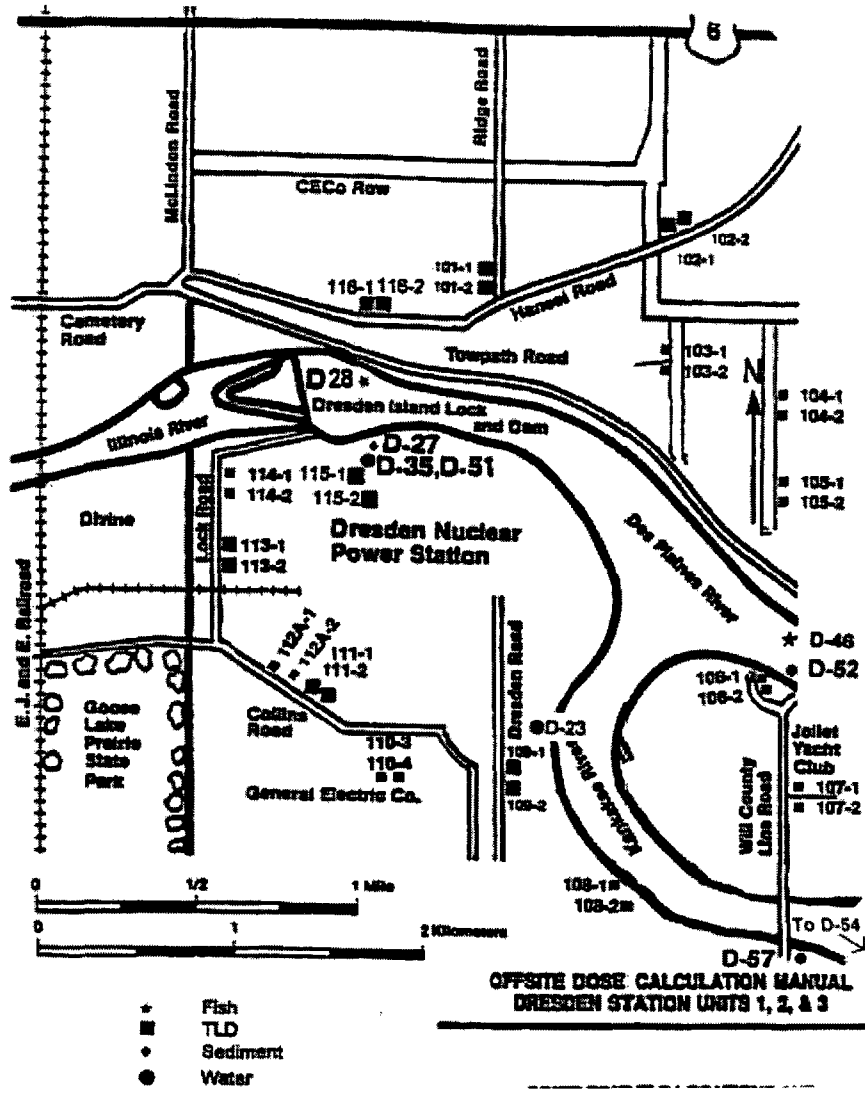


Figure B-1
Dresden Station Inner Ring TLD Locations, Fish, Water, and Sediment Locations, 2006

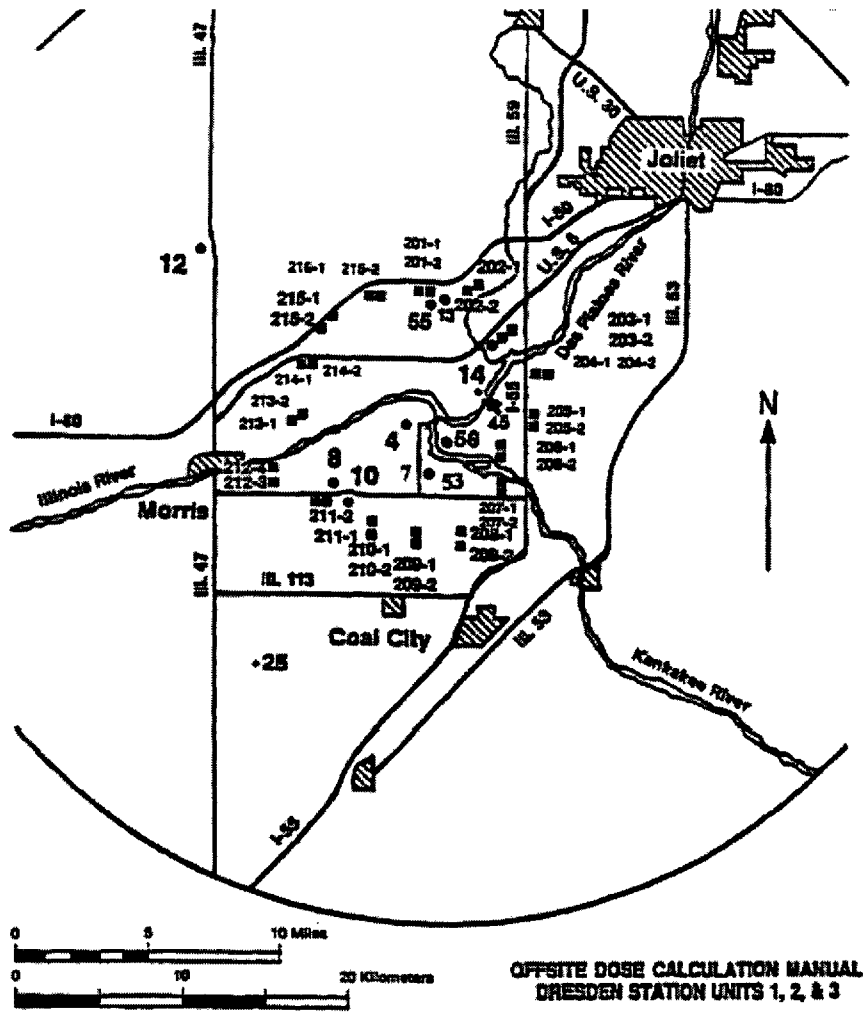


Figure B-2
Dresden Station Fixed Air Sampling and TLD Sites, Outer Ring TLD Locations and Milk Location, 2006

APPENDIX C

DATA TABLES AND FIGURES PRIMARY LABORATORY

TABLE C-1.1 CONCENTRATIONS OF GROSS BETA IN SURFACE WATER SAMPLES COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2006

RESULTS IN UNITS OF PCI/LITER \pm 2 SIGMA

COLLECTION PERIOD	D-51	D-52	D-54	D-57
JAN	6.8 \pm 2.2	3.9 \pm 2.0	4.4 \pm 1.9	(1)
FEB	8.6 \pm 2.3	5.1 \pm 1.9	4.4 \pm 1.8	
MAR	6.4 \pm 2.1	8.0 \pm 2.3	4.2 \pm 1.9	
APR	5.3 \pm 2.2	4.8 \pm 2.1	5.2 \pm 2.1	
MAY	6.0 \pm 2.3	4.0 \pm 2.1	< 3.0	
JUN	7.7 \pm 2.3	4.3 \pm 2.0	5.4 \pm 2.2	
JUL	9.8 \pm 2.6	6.8 \pm 2.3	5.1 \pm 2.3	5.5 \pm 2.1
AUG	6.7 \pm 2.0	8.2 \pm 2.1	6.5 \pm 2.0	6.4 \pm 2.2
SEP	6.8 \pm 2.1	5.1 \pm 2.0	7.7 \pm 2.2	5.9 \pm 2.1
OCT	8.5 \pm 1.9	5.9 \pm 1.7	6.2 \pm 1.8	7.6 \pm 1.9
NOV	6.3 \pm 2.1	7.9 \pm 2.3	5.2 \pm 2.0	4.6 \pm 2.0
DEC	4.7 \pm 2.0	4.5 \pm 2.1	3.7 \pm 1.9	3.9 \pm 2.0
MEAN	7.0 \pm 2.9	5.7 \pm 3.2	5.1 \pm 2.6	5.7 \pm 2.6

TABLE C-1.2 CONCENTRATIONS OF TRITIUM IN SURFACE WATER SAMPLES COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2006

RESULTS IN UNITS OF PCI/LITER \pm 2 SIGMA

COLLECTION PERIOD	D-51	D-52	D-54	D-57
JAN-MAR	< 190	< 192	< 188	(1)
APR-JUN	< 185	< 183	< 183	
JUL-SEP	< 185	< 185	< 184	
OCT-DEC	236 \pm 122	< 181	< 184	968 \pm 170
MEAN	199 \pm 50	185 \pm 10	185 \pm 4	968

(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-I.3 CONCENTRATIONS OF GAMMA EMITTERS IN SURFACE WATER SAMPLES COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2006

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	< 4	< 4	< 8	< 4	< 8	< 4	< 7	< 14.7	< 4	< 4	< 30	< 10
FEB	< 4	< 4	< 10	< 4	< 11	< 5	< 8	< 13	< 5	< 4	< 30	< 11
MAR	< 3	< 3	< 6	< 3	< 6	< 3	< 5	< 12	< 3	< 3	< 23	< 7
APR	< 3	< 3	< 7	< 3	< 7	< 3	< 6	< 14.8	< 3	< 3	< 27	< 9
MAY	< 2	< 2	< 6	< 2	< 4	< 2	< 4	< 11	< 2	< 2	< 41	< 12
JUN	< 3	< 3	< 6	< 3	< 6	< 3	< 5	< 14	< 3	< 3	< 25	< 8
JUL	< 1	< 1	< 4	< 2	< 3	< 2	< 3	< 13	< 1	< 1	< 18	< 6
AUG	< 1	< 1	< 3	< 1	< 2	< 1	< 2	< 14	< 1	< 1	< 17	< 5
SEP	< 2	< 3	< 6	< 2	< 5	< 3	< 5	< 10	< 2	< 3	< 21	< 8
OCT	< 8	< 10	< 21	< 8	< 17	< 10	< 18	< 8	< 7	< 7	< 11	< 4
NOV	< 3	< 3	< 6	< 4	< 6	< 3	< 6	< 14.8	< 2	< 3	< 26	< 11
DEC	< 2	< 2	< 5	< 2	< 3	< 2	< 3	< 12	< 2	< 2	< 20	< 6
MEAN	3 ± 4	3 ± 4	7 ± 10	3 ± 4	6 ± 8	3 ± 5	6 ± 8	12 ± 4	3 ± 4	3 ± 3	24 ± 15	8 ± 5
D-52 JAN	< 4	< 4	< 8	< 4	< 8	< 4	< 7	< 14.8	< 4	< 4	< 30	< 11
FEB	< 4	< 5	< 10	< 4	< 11	< 4	< 8	< 14	< 5	< 5	< 31	< 10
MAR	< 3	< 3	< 7	< 3	< 6	< 3	< 6	< 14	< 3	< 3	< 27	< 9
APR	< 3	< 3	< 7	< 3	< 6	< 3	< 6	< 14.6	< 3	< 3	< 28	< 9
MAY	< 2	< 2	< 5	< 1	< 3	< 2	< 3	< 12	< 2	< 2	< 34	< 10
JUN	< 3	< 3	< 7	< 3	< 7	< 3	< 6	< 14.9	< 3	< 3	< 29	< 9
JUL	< 1	< 2	< 4	< 1	< 3	< 2	< 3	< 14.9	< 1	< 1	< 20	< 7
AUG	< 1	< 1	< 3	< 1	< 2	< 1	< 2	< 14.8	< 1	< 1	< 17	< 6
SEP	< 3	< 3	< 7	< 4	< 6	< 3	< 6	< 13	< 3	< 3	< 28	< 8
OCT	< 1	< 1	< 2	< 1	< 2	< 1	< 2	< 9	< 1	< 1	< 12	< 4
NOV	< 3	< 3	< 6	< 3	< 6	< 3	< 6	< 14	< 3	< 3	< 30	< 8
DEC	< 1	< 2	< 4	< 1	< 3	< 2	< 3	< 12	< 1	< 2	< 18	< 6
MEAN	2 ± 2	3 ± 2	6 ± 5	2 ± 2	5 ± 5	3 ± 2	5 ± 4	13 ± 4	2 ± 3	3 ± 3	25 ± 13	8 ± 4

C-2

TABLE C-I.3 CONCENTRATIONS OF GAMMA EMITTERS IN SURFACE WATER SAMPLES COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2006

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	< 3	< 4	< 8	< 4	< 8	< 4	< 7	< 14.8	< 4	< 3	< 28	< 10
FEB	< 4	< 4	< 9	< 4	< 10	< 4	< 8	< 14	< 4	< 4	< 28	< 9
MAR	< 2	< 3	< 6	< 3	< 6	< 3	< 5	< 13	< 3	< 3	< 25	< 8
APR	< 2	< 3	< 6	< 2	< 5	< 3	< 5	< 11	< 2	< 2	< 21	< 7
MAY	< 1	< 1	< 2	< 1	< 2	< 1	< 2	< 14.7	< 1	< 1	< 18	< 5
JUN	< 2	< 2	< 5	< 2	< 5	< 2	< 4	< 9	< 2	< 2	< 18	< 6
JUL	< 1	< 1	< 3	< 1	< 2	< 1	< 3	< 12	< 1	< 1	< 18	< 6
AUG	< 1	< 2	< 4	< 1	< 3	< 2	< 3	< 14	< 1	< 1	< 20	< 7
SEP	< 2	< 2	< 4	< 2	< 3	< 2	< 3	< 8	< 2	< 2	< 16	< 4
OCT	< 1	< 1	< 2	< 1	< 1	< 1	< 1	< 7	< 1	< 1	< 9	< 3
NOV	< 3	< 3	< 6	< 4	< 5	< 3	< 6	< 9	< 3	< 3	< 21	< 7
DEC	< 2	< 2	< 6	< 2	< 4	< 3	< 5	< 12	< 2	< 2	< 25	< 8
MEAN	2 ± 2	2 ± 2	5 ± 5	2 ± 2	4 ± 5	2 ± 2	4 ± 4	12 ± 6	2 ± 2	2 ± 2	21 ± 11	7 ± 4
D-57 JAN	(1)											
FEB												
MAR												
APR												
MAY												
JUN												
JUL	< 1	< 2	< 4	< 1	< 3	< 2	< 3	< 14.7	< 1	< 1	< 19	< 6
AUG	< 1	< 1	< 2	< 1	< 2	< 1	< 2	< 14.8	< 1	< 1	< 18	< 5
SEP	< 3	< 4	< 9	< 3	< 7	< 4	< 7	< 14	< 3	< 4	< 30	< 9
OCT	< 8	< 8	< 20	< 6	< 13	< 10	< 16	< 8	< 7	< 8	< 11	< 4
NOV	< 3	< 3	< 6	< 3	< 6	< 4	< 7	< 13	< 3	< 3	< 29	< 12
DEC	< 2	< 2	< 4	< 2	< 3	< 2	< 3	< 12	< 2	< 2	< 19	< 7
MEAN	3 ± 5	3 ± 5	8 ± 13	3 ± 4	6 ± 9	4 ± 7	6 ± 11	13 ± 5	3 ± 4	3 ± 5	21 ± 14	7 ± 6

(1) SEE PROGRAM CHANGES SECTION FOR EXPLANATION

C-3

**TABLE C-II.1 CONCENTRATIONS OF TRITIUM IN GROUND WATER SAMPLES
COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2006**

RESULTS IN UNITS OF PCI/LITER ± 2 SIGMA

COLLECTION PERIOD	D-23	D-35
JAN	680 ± 121	< 161
FEB	(1)	
MAR	722 ± 123	
APR	681 ± 135	< 171
MAY	693 ± 125	
JUN	677 ± 148	
JUL	507 ± 135	< 174
AUG	712 ± 148	
SEP	729 ± 151	
OCT	688 ± 93	< 131
NOV	728 ± 142	
DEC	340 ± 118	
MEAN	651 ± 240	159 ± 39

519.60

(1) SEE PROGRAM CHANGES SECTION FOR EXPLANATION

**TABLE C-II.2 CONCENTRATIONS OF GAMMA EMITTERS IN GROUND WATER SAMPLES
COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2006**

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	< 8	< 9	< 17	< 8	< 23	< 10	< 18	< 13	< 13	< 9	< 41	< 12.5
	FEB	(1)											
	MAR	< 7	< 6	< 14	< 7	< 17	< 8	< 11	< 11	< 9	< 7	< 30	< 10.5
	APR	< 5	< 6	< 12	< 5	< 12	< 6	< 10	< 13	< 5	< 6	< 32	< 11.1
	MAY	< 8	< 8	< 18	< 8	< 21	< 9	< 15	< 13	< 11	< 9	< 37	< 12.3
	JUN	< 5	< 6	< 12	< 5	< 12	< 6	< 10	< 6	< 5	< 5	< 48	< 14.6
	JUL	< 1	< 1	< 3	< 1	< 2	< 1	< 2	< 13	< 1	< 1	< 18	< 5.89
	AUG	< 6	< 6	< 11	< 7	< 12	< 6	< 9	< 14	< 4	< 7	< 32	< 10.9
	SEP	< 2	< 2	< 4	< 2	< 3	< 2	< 3	< 5	< 2	< 2	< 11	< 3.84
	OCT	< 1	< 2	< 4	< 1	< 3	< 2	< 3	< 14	< 1	< 1	< 20	< 6.57
	NOV	< 0.4	< 0.4	< 1	< 0.4	< 1	< 0.5	< 1	< 1	< 0.4	< 0.4	< 3	< 0.95
	DEC	< 4	< 5	< 9	< 4	< 10	< 6	< 8	< 11	< 4	< 4	< 22	< 8.52
		MEAN	4 ± 6	5 ± 6	9 ± 12	5 ± 6	10 ± 15	5 ± 7	8 ± 11	10 ± 9	5 ± 8	5 ± 6	27 ± 27
D-35	JAN	< 9	< 7	< 18	< 9	< 23	< 9	< 14	< 13	< 11	< 9	< 41	< 14.1
	APR	< 5	< 6	< 11	< 6	< 13	< 5	< 9	< 13	< 6	< 6	< 30	< 10.3
	JUL	< 1	< 1	< 3	< 1	< 2	< 1	< 3	< 14	< 1	< 1	< 19	< 6.49
	OCT	< 1	< 1	< 3	< 1	< 2	< 1	< 2	< 11	< 1	< 1	< 15	< 4.46
		MEAN	4 ± 7	4 ± 6	9 ± 14	4 ± 8	10 ± 20	4 ± 7	7 ± 11	13 ± 2	5 ± 9	4 ± 8	26 ± 24

C-5

(1) SEE PROGRAM CHANGES SECTION FOR EXPLANATION

TABLE C-III.1

**CONCENTRATIONS OF GAMMA EMITTERS IN FISH SAMPLES
COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2006**

RESULTS IN UNITS OF PCI/KG WET \pm 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										
Channel Catfish	05/15/06	< 62	< 84	< 237	< 59	< 163	< 79	< 57	< 67	< 739
Largemouth Bass	05/15/06	< 62	< 88	< 217	< 57	< 141	< 91	< 69	< 64	< 580
Largemouth Bass	(10/02/06	< 75	< 95	< 215	< 56	< 184	< 97	< 68	< 70	< 356
Smallmouth Buffalo	10/02/06	< 80	< 70	< 201	< 49	< 125	< 89	< 69	< 73	< 397
MEAN		69 \pm 18	84 \pm 22	218 \pm 30	55 \pm 9	153 \pm 51	89 \pm 15	66 \pm 12	69 \pm 8	518 \pm 353
D-46										
Channel Catfish	05/15/06	< 47	< 71	< 176	< 60	< 126	< 75	< 47	< 55	< 521
Freshwater Drum	05/15/06	< 54	< 71	< 176	< 50	< 123	< 77	< 56	< 54	< 573
Common Carp	10/02/06	< 38	< 65	< 189	< 53	< 101	< 55	< 48	< 47	< 293
Largemouth Bass	(; 10/02/06	< 64	< 66	< 149	< 46	< 176	< 87	< 64	< 68	< 381
MEAN		51 \pm 23	68 \pm 7	173 \pm 34	52 \pm 12	132 \pm 63	73 \pm 27	54 \pm 16	56 \pm 18	442 \pm 256

**TABLE C-IV.1 CONCENTRATIONS OF GAMMA EMITTERS IN SEDIMENT SAMPLES
COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2006**

RESULTS IN UNITS OF PCI/KG DRY \pm 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	05/05/06	< 97	< 101	< 216	< 99	< 305	< 136	< 126	142 \pm 77	< 246
	10/27/06	< 45	< 36.4	< 108	< 40	< 90	< 53.7	< 38.1	86 \pm 49	< 102
	MEAN	71 \pm 73	69 \pm 91	162 \pm 153	70 \pm 84	197 \pm 304	95 \pm 116	82 \pm 124	114 \pm 80	174 \pm 204

TABLE C-V.1 CONCENTRATIONS OF GROSS BETA IN AIR PARTICULATE SAMPLES COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2006

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

WEEK	GROUP I			GROUP II				
	D-01	D-02	D-03	D-04	D-07	D-45	D-53	D-56
1	14 ± 4	14 ± 4	21 ± 4	16 ± 4	17 ± 4	17 ± 4	16 ± 4	(1)
2	22 ± 4	22 ± 4	21 ± 4	22 ± 5	25 ± 5	19 ± 4	17 ± 4	
3	21 ± 4	21 ± 4	19 ± 4	18 ± 4	26 ± 5	22 ± 4	23 ± 5	
4	23 ± 4	21 ± 4	19 ± 4	20 ± 4	21 ± 4	22 ± 4	19 ± 4	
5	16 ± 4	16 ± 4	18 ± 4	20 ± 4	19 ± 4	22 ± 5	16 ± 4	
6	12 ± 4	12 ± 4	15 ± 4	14 ± 4	13 ± 4	12 ± 4	11 ± 4	
7	15 ± 4	17 ± 4	15 ± 4	19 ± 4	18 ± 4	17 ± 4	14 ± 4	
8	24 ± 5	26 ± 5	26 ± 5	24 ± 5	26 ± 5	25 ± 5	23 ± 5	
9	20 ± 4	20 ± 4	21 ± 4	19 ± 4	21 ± 4	22 ± 4	20 ± 4	
10	12 ± 4	14 ± 4	13 ± 4	15 ± 4	15 ± 4	15 ± 4	16 ± 4	
11	19 ± 4	17 ± 4	18 ± 4	19 ± 4	18 ± 4	19 ± 4	18 ± 4	
12	12 ± 4	16 ± 4	13 ± 4	15 ± 4	14 ± 4	10 ± 4	13 ± 4	
13	11 ± 4	15 ± 4	11 ± 3	13 ± 4	13 ± 4	14 ± 4	13 ± 4	
14	18 ± 4	16 ± 4	12 ± 4	15 ± 4	16 ± 4	16 ± 4	14 ± 4	
15	18 ± 4	17 ± 4	20 ± 4	19 ± 5	21 ± 5	21 ± 5	18 ± 4	
16	18 ± 4	14 ± 4	16 ± 4	16 ± 4	14 ± 4	18 ± 4	18 ± 4	
17	11 ± 4	14 ± 4	17 ± 4	17 ± 4	16 ± 4	15 ± 4	15 ± 4	
18	15 ± 4	13 ± 4	17 ± 4	12 ± 4	15 ± 4	12 ± 4	14 ± 4	
19	14 ± 4	14 ± 4	15 ± 4	13 ± 4	13 ± 4	11 ± 4	15 ± 4	
20	7 ± 3	< 5	< 5	< 5	6 ± 3	7 ± 3	6 ± 3	
21	12 ± 4	11 ± 4	12 ± 4	14 ± 4	15 ± 4	15 ± 4	13 ± 4	
22	15 ± 4	17 ± 4	15 ± 4	22 ± 5	22 ± 5	19 ± 4	16 ± 4	
23	13 ± 4	14 ± 4	12 ± 4	14 ± 4	19 ± 4	17 ± 4	18 ± 4	
24	14 ± 4	12 ± 4	12 ± 4	18 ± 4	17 ± 4	16 ± 4	14 ± 4	
25	15 ± 4	15 ± 4	14 ± 4	16 ± 4	16 ± 4	20 ± 5	13 ± 4	
26	14 ± 4	9 ± 4	8 ± 4	11 ± 4	11 ± 4	10 ± 4	11 ± 4	
27	22 ± 5	25 ± 5	22 ± 5	25 ± 5	20 ± 5	23 ± 5	24 ± 5	
28	16 ± 4	16 ± 4	15 ± 4	14 ± 4	14 ± 4	17 ± 4	15 ± 4	
29	22 ± 4	20 ± 4	24 ± 5	20 ± 4	30 ± 5	27 ± 5	22 ± 5	
30	19 ± 4	15 ± 4	17 ± 4	19 ± 4	19 ± 5	22 ± 5	16 ± 4	10 ± 4
31	17 ± 4	20 ± 4	22 ± 5	26 ± 5	24 ± 5	20 ± 4	19 ± 5	24 ± 5
32	21 ± 4	15 ± 4	20 ± 4	27 ± 5	25 ± 4	15 ± 4	23 ± 4	23 ± 4
33	26 ± 5	23 ± 5	22 ± 5	28 ± 5	29 ± 5	28 ± 5	27 ± 5	28 ± 5
34	35 ± 5	27 ± 5	34 ± 5	30 ± 5	32 ± 5	31 ± 5	28 ± 5	33 ± 5
35	20 ± 5	14 ± 4	17 ± 4	21 ± 5	21 ± 5	24 ± 5	23 ± 5	16 ± 4
36	17 ± 4	16 ± 4	18 ± 4	20 ± 4	18 ± 4	20 ± 4	21 ± 4	24 ± 5
37	12 ± 4	16 ± 4	16 ± 4	19 ± 4	15 ± 4	19 ± 4	19 ± 4	19 ± 4
38	18 ± 4	18 ± 4	22 ± 5	19 ± 4	20 ± 5	19 ± 4	18 ± 4	23 ± 5
39	12 ± 4	18 ± 4	18 ± 4	17 ± 4	15 ± 4	18 ± 4	18 ± 4	17 ± 4
40	20 ± 4	17 ± 4	22 ± 4	20 ± 4	23 ± 4	24 ± 4	21 ± 4	18 ± 4
41	11 ± 4	11 ± 4	11 ± 4	12 ± 4	16 ± 4	16 ± 4	15 ± 4	15 ± 4
42	19 ± 4	16 ± 4	15 ± 4	20 ± 4	21 ± 4	17 ± 4	19 ± 4	19 ± 4
43	17 ± 4	18 ± 4	17 ± 4	20 ± 4	17 ± 4	17 ± 4	18 ± 4	15 ± 4
44	20 ± 4	20 ± 4	17 ± 4	18 ± 4	18 ± 4	16 ± 4	19 ± 4	17 ± 4
45	30 ± 5	34 ± 5	28 ± 5	30 ± 5	36 ± 6	29 ± 5	27 ± 5	29 ± 5
46	17 ± 4	24 ± 5	23 ± 5	17 ± 4	18 ± 4	23 ± 5	20 ± 4	21 ± 4
47	25 ± 5	27 ± 5	24 ± 5	26 ± 5	29 ± 5	31 ± 5	26 ± 5	27 ± 5
48	18 ± 4	21 ± 4	21 ± 4	18 ± 4	21 ± 4	19 ± 4	17 ± 4	23 ± 4
49	21 ± 5	30 ± 5	26 ± 5	36 ± 5	32 ± 5	28 ± 5	28 ± 5	34 ± 5
50	26 ± 6	27 ± 6	21 ± 5	28 ± 6	26 ± 6	23 ± 6	25 ± 6	22 ± 5
51	16 ± 4	21 ± 5	17 ± 4	19 ± 4	21 ± 5	19 ± 4	10 ± 4	22 ± 5
52	29 ± 4	33 ± 5	30 ± 4	35 ± 5	32 ± 5	33 ± 5	29 ± 5	28 ± 4
MEAN	18 ± 11	18 ± 12	18 ± 11	19 ± 12	20 ± 12	19 ± 11	18 ± 10	22 ± 12

(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.1 CONCENTRATIONS OF GROSS BETA IN AIR PARTICULATE SAMPLES COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2006

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

WEEK	GROUP III					GROUP IV
	D-08	D-10	D-13	D-14	D-55 (1)	D-12
1	18 ± 4	17 ± 4	19 ± 4	19 ± 4	20 ± 4	22 ± 4
2	21 ± 4	21 ± 4	25 ± 5	23 ± 5	25 ± 5	24 ± 5
3	22 ± 4	25 ± 5	24 ± 4	24 ± 4	20 ± 4	22 ± 4
4	19 ± 4	19 ± 4	19 ± 4	21 ± 4	18 ± 4	21 ± 4
5	18 ± 4	18 ± 4	15 ± 4	20 ± 4	18 ± 4	16 ± 4
6	14 ± 4	13 ± 4	11 ± 4	15 ± 4	15 ± 4	12 ± 4
7	14 ± 4	17 ± 4	15 ± 4	15 ± 4	11 ± 4	13 ± 4
8	24 ± 5	23 ± 5	27 ± 5	24 ± 5	22 ± 5	28 ± 5
9	23 ± 4	17 ± 4	28 ± 5	22 ± 4	21 ± 4	19 ± 4
10	14 ± 4	16 ± 4	12 ± 4	17 ± 4	13 ± 4	14 ± 4
11	17 ± 4	21 ± 4	19 ± 4	9 ± 4	16 ± 4	18 ± 4
12	14 ± 4	16 ± 4	18 ± 4	13 ± 4	13 ± 4	16 ± 4
13	14 ± 4	13 ± 4	15 ± 4	12 ± 4	12 ± 4	10 ± 3
14	17 ± 4	15 ± 4	19 ± 4	15 ± 4	16 ± 4	17 ± 4
15	14 ± 4	21 ± 5	21 ± 5	21 ± 5	19 ± 4	17 ± 4
16	18 ± 4	14 ± 4	15 ± 4	15 ± 4	15 ± 4	14 ± 4
17	11 ± 4	16 ± 4	17 ± 4	15 ± 4	12 ± 4	12 ± 4
18	14 ± 4	12 ± 4	14 ± 4	13 ± 4	14 ± 4	16 ± 4
19	15 ± 4	13 ± 4	14 ± 4	14 ± 4	10 ± 4	17 ± 4
20	6 ± 3	6 ± 3	9 ± 4	8 ± 4	7 ± 3	6 ± 3
21	14 ± 4	15 ± 4	16 ± 4	15 ± 4	15 ± 4	12 ± 4
22	18 ± 4	17 ± 4	18 ± 4	18 ± 4	18 ± 4	17 ± 4
23	17 ± 4	15 ± 4	12 ± 4	15 ± 4	15 ± 4	14 ± 4
24	11 ± 3	15 ± 4	12 ± 3	13 ± 4	12 ± 4	14 ± 4
25	14 ± 4	15 ± 4	14 ± 4	19 ± 4	18 ± 4	18 ± 4
26	8 ± 4	7 ± 4	11 ± 4	12 ± 4	14 ± 4	15 ± 4
27	27 ± 5	21 ± 4	24 ± 5	25 ± 5	27 ± 5	25 ± 5
28	16 ± 4	17 ± 4	17 ± 4	18 ± 4	15 ± 4	18 ± 4
29	23 ± 5	25 ± 5	23 ± 5	31 ± 5	27 ± 5	28 ± 5
30	23 ± 5	18 ± 4	19 ± 4	27 ± 5	18 ± 4	18 ± 4
31	19 ± 4	25 ± 5	25 ± 5	26 ± 5	25 ± 5	24 ± 5
32	22 ± 4	26 ± 4	28 ± 5	23 ± 4	29 ± 5	25 ± 4
33	22 ± 4	26 ± 5	27 ± 5	24 ± 5	24 ± 5	25 ± 5
34	28 ± 5	29 ± 5	37 ± 6	30 ± 5	29 ± 5	35 ± 5
35	18 ± 4	21 ± 5	22 ± 5	20 ± 5	21 ± 5	22 ± 5
36	23 ± 5	22 ± 4	21 ± 4	20 ± 4	23 ± 5	17 ± 4
37	15 ± 4	21 ± 5	15 ± 4	17 ± 4	17 ± 4	20 ± 4
38	19 ± 4	18 ± 4	20 ± 5	18 ± 4	18 ± 4	22 ± 5
39	18 ± 4	16 ± 4	18 ± 4	17 ± 4	19 ± 4	16 ± 4
40	19 ± 4	20 ± 4	22 ± 4	20 ± 4	22 ± 4	22 ± 4
41	14 ± 4	15 ± 4	17 ± 4	13 ± 4	14 ± 4	16 ± 4
42	21 ± 4	16 ± 4	20 ± 4	19 ± 4	15 ± 4	24 ± 4
43	20 ± 5	17 ± 4	16 ± 4	14 ± 4	19 ± 5	21 ± 5
44	23 ± 5	20 ± 4	18 ± 4	21 ± 5	19 ± 4	18 ± 4
45	30 ± 5	28 ± 5	23 ± 5	29 ± 5	34 ± 5	29 ± 5
46	25 ± 5	18 ± 4	22 ± 5	21 ± 5	21 ± 4	17 ± 4
47	29 ± 5	27 ± 5	31 ± 5	32 ± 5	27 ± 5	25 ± 5
48	21 ± 4	22 ± 4	22 ± 4	21 ± 4	19 ± 4	20 ± 4
49	33 ± 5	31 ± 5	20 ± 5	28 ± 5	34 ± 5	26 ± 5
50	39 ± 5	23 ± 5	28 ± 6	24 ± 5	17 ± 5	19 ± 5
51	22 ± 5	22 ± 5	19 ± 4	24 ± 5	21 ± 5	21 ± 5
52	28 ± 4	28 ± 4	35 ± 5	31 ± 5	36 ± 5	32 ± 5
MEAN	19 ± 12	19 ± 10	20 ± 12	20 ± 12	19 ± 12	19 ± 11

(1) SEE PROGRAM CHANGES SECTION FOR EXPLANATION

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, 2006

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
12/30/05 - 02/03/06	14	23	19 ± 6	12/30/05 - 02/03/06	16	26	20 ± 6	12/30/05 - 02/03/06	15	25	20 ± 6	12/30/05 - 02/03/06	16	24	21 ± 6
02/03/06 - 03/03/06	12	26	18 ± 10	02/03/06 - 03/03/06	11	26	19 ± 9	02/03/06 - 03/03/06	11	28	19 ± 11	02/03/06 - 03/03/06	12	28	18 ± 15
03/03/06 - 03/31/06	11	19	14 ± 5	03/03/06 - 03/31/06	10	19	15 ± 5	03/03/06 - 03/31/06	9	21	15 ± 5	03/03/06 - 03/31/06	10	18	14 ± 7
03/31/06 - 04/28/06	11	20	16 ± 5	03/31/06 - 04/28/06	14	21	17 ± 4	03/31/06 - 04/28/06	11	21	16 ± 6	03/31/06 - 04/28/06	12	17	15 ± 5
04/28/06 - 06/02/06	< 5	17	12 ± 8	04/28/06 - 06/02/06	< 5	22	13 ± 9	04/28/06 - 06/02/06	6	18	13 ± 7	04/28/06 - 06/02/06	6	17	14 ± 9
06/02/06 - 06/30/06	8	15	13 ± 5	06/02/06 - 06/30/06	10	20	15 ± 6	06/02/06 - 06/30/06	7	19	13 ± 6	06/02/06 - 06/30/06	14	18	15 ± 4
06/30/06 - 07/28/06	15	25	19 ± 8	06/30/06 - 07/28/06	10	30	19 ± 11	06/30/06 - 07/28/06	15	31	22 ± 9	06/30/06 - 07/28/06	18	28	22 ± 10
07/28/06 - 09/01/06	14	35	22 ± 12	07/28/06 - 09/01/06	15	33	25 ± 10	07/28/06 - 09/01/06	18	37	25 ± 8	07/28/06 - 09/01/06	22	35	26 ± 10
09/01/06 - 09/29/06	12	22	17 ± 6	09/01/06 - 09/29/06	15	24	19 ± 5	09/01/06 - 09/29/06	15	23	19 ± 5	09/01/06 - 09/29/06	16	22	19 ± 5
09/29/06 - 11/03/06	11	22	17 ± 7	09/29/06 - 11/03/06	12	24	18 ± 5	09/29/06 - 11/03/06	13	23	18 ± 6	09/29/06 - 11/03/06	16	24	20 ± 6
11/03/06 - 12/01/06	17	34	24 ± 10	11/03/06 - 12/01/06	17	36	24 ± 10	11/03/06 - 12/01/06	18	34	25 ± 9	11/03/06 - 12/01/06	17	29	23 ± 10
12/01/06 - 12/30/06	16	33	25 ± 11	12/01/06 - 12/30/06	10	36	26 ± 13	12/01/06 - 12/30/06	17	39	27 ± 13	12/01/06 - 12/30/06	19	32	25 ± 12
12/30/05 - 12/30/06	< 5	35	18 ± 8	12/30/05 - 12/30/06	< 5	36	19 ± 8	12/30/05 - 12/30/06	6	39	19 ± 9	12/30/05 - 12/30/06	6	35	19 ± 8

TABLE C-V.3

CONCENTRATIONS OF GAMMA EMITTERS IN AIR PARTICULATE SAMPLES
COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2006

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	12/30/05 - 03/31/06	< 6	< 9	< 30	< 7	< 14	< 7	< 6	< 5	< 383
	03/31/06 - 06/30/06	< 2	< 2	< 10	< 3	< 5	< 3	< 2	< 2	< 91
	06/30/06 - 09/29/06	< 3	< 3	< 11	< 2	< 7	< 4	< 2	< 2	< 121
	09/29/06 - 12/30/06	< 1	< 1	< 5	< 2	< 4	< 1	< 1	< 1	< 8
	MEAN	3 ± 4	4 ± 7	14 ± 22	3 ± 5	7 ± 9	4 ± 5	3 ± 5	2 ± 4	151 ± 324
D-02	12/30/05 - 03/31/06	< 6	< 8	< 30	< 2	< 14	< 10	< 6	< 5	< 246
	03/31/06 - 06/30/06	< 3	< 5	< 13	< 4	< 6	< 4	< 3	< 3	< 56
	06/30/06 - 09/29/06	< 3	< 5	< 13	< 3	< 5	< 8	< 3	< 2	< 250
	09/29/06 - 12/30/06	< 2	< 3	< 5	< 1	< 4	< 2	< 2	< 2	< 16
	MEAN	3 ± 4	5 ± 5	15 ± 22	2 ± 2	7 ± 9	6 ± 7	3 ± 4	3 ± 3	142 ± 247
D-03	12/30/05 - 03/31/06	< 4	< 4	< 35	< 6	< 16	< 8	< 6	< 6	< 481
	03/31/06 - 06/30/06	< 5	< 6	< 13	< 3	< 9	< 5	< 2	< 4	< 15
	06/30/06 - 09/29/06	< 6	< 9	< 26	< 5	< 12	< 8	< 5	< 5	< 306
	09/29/06 - 12/30/06	< 2	< 2	< 7	< 2	< 6	< 3	< 2	< 2	< 10
	MEAN	4 ± 3	5 ± 6	20 ± 26	4 ± 3	10 ± 9	6 ± 5	4 ± 4	4 ± 3	203 ± 462
D-04	12/30/05 - 03/31/06	< 8	< 5	< 27	< 3	< 17	< 12	< 7	< 5	< 217
	03/31/06 - 06/30/06	< 3	< 4	< 10	< 4	< 8	< 5	< 2	< 2	< 88
	06/30/06 - 09/29/06	< 3	< 6	< 21	< 3	< 7	< 4	< 2	< 3	< 201
	09/29/06 - 12/30/06	< 3	< 2	< 7	< 2	< 5	< 3	< 3	< 3	< 10
	MEAN	4 ± 5	4 ± 3	16 ± 18	3 ± 1	9 ± 11	6 ± 8	3 ± 5	3 ± 3	129 ± 196

C-11

TABLE C-V.3

CONCENTRATIONS OF GAMMA EMITTERS IN AIR PARTICULATE SAMPLES
COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2006

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	12/30/05 - 03/31/06	< 7	< 11	< 38	< 8	< 11	< 13	< 6	< 5	< 434
	03/31/06 - 06/30/06	< 2	< 4	< 8	< 4	< 4	< 4	< 1	< 1	< 80
	06/30/06 - 09/29/06	< 3	< 3	< 14	< 1	< 4	< 4	< 2	< 2	< 258
	09/29/06 - 12/30/06	< 3	< 3	< 7	< 3	< 6	< 3	< 3	< 3	< 15
	MEAN	4 ± 5	6 ± 8	17 ± 29	4 ± 6	6 ± 7	6 ± 9	3 ± 4	3 ± 3	197 ± 377
D-08	12/30/05 - 03/31/06	< 6	< 7	< 27	< 6	< 11	< 10	< 7	< 5	< 307
	03/31/06 - 06/30/06	< 4	< 6	< 19	< 3	< 11	< 7	< 4	< 4	< 164
	06/30/06 - 09/29/06	< 2	< 4	< 17	< 2	< 6	< 4	< 2	< 2	< 153
	09/29/06 - 12/30/06	< 3	< 2	< 8	< 2	< 8	< 4	< 3	< 3	< 11
	MEAN	4 ± 3	5 ± 5	18 ± 15	3 ± 3	9 ± 6	6 ± 6	4 ± 4	3 ± 3	159 ± 242
D-10	12/30/05 - 03/31/06	< 6	< 9	< 27	< 6	< 20	< 11	< 8	< 8	< 290
	03/31/06 - 06/30/06	< 5	< 6	< 15	< 3	< 9	< 7	< 4	< 4	< 54
	06/30/06 - 09/29/06	< 3	< 5	< 20	< 3	< 9	< 6	< 4	< 3	< 293
	09/29/06 - 12/30/06	< 3	< 3	< 10	< 1	< 5	< 2	< 2	< 3	< 8
	MEAN	4 ± 3	6 ± 5	18 ± 14	3 ± 4	11 ± 13	7 ± 7	4 ± 4	4 ± 5	161 ± 303
D-12	12/30/05 - 03/31/06	< 7	< 13	< 34	< 3	< 15	< 9	< 6	< 5	< 356
	03/31/06 - 06/30/06	< 3	< 2	< 8	< 3	< 5	< 4	< 2	< 2	< 88
	06/30/06 - 09/29/06	< 3	< 5	< 14	< 2	< 6	< 7	< 3	< 3	< 279
	09/29/06 - 12/29/06	< 1	< 2	< 4	< 1	< 3	< 2	< 1	< 1	< 15
	MEAN	3 ± 5	6 ± 11	15 ± 27	2 ± 2	7 ± 10	5 ± 6	3 ± 4	3 ± 3	184 ± 319

C-12

TABLE C-V.3

**CONCENTRATIONS OF GAMMA EMITTERS IN AIR PARTICULATE SAMPLES
COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2006**

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

STC	COLLECTION PERIOD	MN-54	CO-58	FE-59	CO-60	ZN-65	ZRNB-95	CS-134	CS-137	BALA140
D-13	12/30/05 - 03/31/06	< 6	< 8	< 26	< 5	< 15	< 14	< 6	< 5	< 430
	03/31/06 - 06/30/06	< 4	< 4	< 13	< 2	< 6	< 4	< 3	< 3	< 97
	06/30/06 - 09/29/06	< 3	< 3	< 17	< 3	< 6	< 6	< 1	< 2	< 294
	09/29/06 - 12/29/06	< 3	< 4	< 9	< 3	< 6	< 3	< 3	< 3	< 24
	MEAN	4 \pm 3	5 \pm 5	16 \pm 15	3 \pm 2	8 \pm 9	7 \pm 10	3 \pm 3	3 \pm 2	211 \pm 370
D-14	12/30/05 - 03/31/06	< 6	< 7	< 30	< 4	< 17	< 12	< 6	< 5	< 351
	03/31/06 - 06/30/06	< 3	< 5	< 9	< 3	< 6	< 7	< 3	< 3	< 94
	06/30/06 - 09/29/06	< 2	< 3	< 16	< 2	< 8	< 4	< 1	< 2	< 390
	09/29/06 - 12/29/06	< 1	< 2	< 4	< 1	< 3	< 2	< 1	< 2	< 11
	MEAN	3 \pm 4	4 \pm 5	15 \pm 22	3 \pm 3	8 \pm 13	6 \pm 9	3 \pm 5	3 \pm 3	212 \pm 374
D-45	12/30/05 - 03/31/06	< 5	< 10	< 36	< 5	< 15	< 11	< 7	< 5	< 306
	03/31/06 - 06/30/06	< 2	< 4	< 10	< 3	< 6	< 4	< 2	< 2	< 88
	06/30/06 - 09/29/06	< 2	< 2	< 9	< 4	< 4	< 6	< 2	< 2	< 183
	09/29/06 - 12/29/06	< 3	< 4	< 6	< 2	< 4	< 3	< 3	< 3	< 17
	MEAN	3 \pm 3	5 \pm 7	15 \pm 27	3 \pm 2	7 \pm 10	6 \pm 8	3 \pm 5	3 \pm 3	149 \pm 250
D-53	12/30/05 - 03/31/06	< 7	< 9	< 24	< 5	< 19	< 12	< 6	< 5	< 385
	03/31/06 - 06/30/06	< 4	< 5	< 21	< 3	< 8	< 6	< 3	< 2	< 89
	06/30/06 - 09/29/06	< 2	< 5	< 18	< 3	< 4	< 7	< 2	< 3	< 203
	09/29/06 - 12/30/06	< 3	< 2	< 7	< 2	< 4	< 3	< 2	< 2	< 11
	MEAN	4 \pm 4	6 \pm 6	18 \pm 14	3 \pm 2	9 \pm 14	7 \pm 8	3 \pm 4	3 \pm 2	172 \pm 325

C-13

TABLE C-V.3

CONCENTRATIONS OF GAMMA EMITTERS IN AIR PARTICULATE SAMPLES
COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2006

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-55	12/30/05 - 03/31/06	< 6	< 11	< 30	< 6	< 12	< 12	< 6	< 6	< 425
(1)	03/31/06 - 06/30/06	< 3	< 4	< 14	< 4	< 7	< 5	< 3	< 2	< 140
	06/30/06 - 09/29/06	< 2	< 5	< 12	< 2	< 9	< 5	< 2	< 2	< 265
	09/29/06 - 12/29/06	< 2	< 4	< 9	< 4	< 7	< 3	< 3	< 3	< 16
	MEAN	3 ± 4	6 ± 7	17 ± 19	4 ± 3	9 ± 5	6 ± 7	3 ± 3	3 ± 4	212 ± 350
D-56	(1)									
	07/25/06 - 09/29/06	< 4	< 6	< 11	< 2	< 8	< 6	< 3	< 3	< 366
	09/29/06 - 12/30/06	< 3	< 4	< 10	< 3	< 5	< 4	< 3	< 3	< 14
	MEAN	3 ± 2	5 ± 4	10 ± 2	3 ± 2	6 ± 4	5 ± 4	3 ± 1	3 ± 1	190 ± 498

C-14

(1) SEE PROGRAM CHANGES SECTION FOR EXPLANATION

TABLE C-VI.1 CONCENTRATIONS OF I-131 IN AIR IODINE SAMPLES COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2006

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

WEEK	GROUP I				GROUP II				
	D-01	D-02	D-03	D-04	D-07	D-45	D-53	D-56	
1	< 36.3	< 36.3	< 35.9	< 36.2	< 27	< 27	< 27		(1)
2	< 21.5	< 39.3	< 39.2	< 40.5	< 40	< 47	< 45		
3	< 26	< 26.1	< 26	< 26.1	< 34	< 36	< 37		
4	< 35.9	< 23.4	< 35.9	< 36.4	< 36	< 41	< 40		
5	< 43	< 44.6	< 43.1	< 43.5	< 29	< 40	< 39		
6	< 39.4	< 29.9	< 39.6	< 39.4	< 40	< 43	< 42		
7	< 42.2	< 42.4	< 42.1	< 42.4	< 28	< 40	< 39		
8	< 40.9	< 42.4	< 28.2	< 42.3	< 43	< 43	< 42		
9	< 39.2	< 39.4	< 39.3	< 39.3	< 47	< 43	< 42		
10	< 23.3	< 24.3	< 23.4	< 17.6	< 24	< 29	< 28		
11	< 33.8	< 34	< 33.9	< 35.1	< 26	< 39	< 38		
12	< 28.9	< 29.4	< 29.3	< 29	< 16	< 34	< 32		
13	< 32	< 32.2	< 31.9	< 32.1	< 25	< 43	< 40		
14	< 45	< 44.9	< 44.8	< 45.1	< 39	< 40	< 40		
15	< 55.6	< 57	< 53.7	< 55.8	< 61	< 61	< 60		
16	< 38.9	< 36	< 36.8	< 39	< 44	< 51	< 49		
17	< 35.7	< 35.4	< 35.3	< 35.7	< 24	< 31	< 29		
18	< 65.4	< 65.7	< 65.6	< 65.5	< 62	< 61	< 61		
19	< 54.5	< 56.8	< 53	< 54.5	< 61	< 57	< 56		
20	< 40.6	< 40.7	< 40.7	< 40.7	< 40	< 40	< 40		
21	< 45.1	< 43.9	< 45.4	< 43.8	< 63	< 69	< 67		
22	< 40.3	< 40.4	< 40.3	< 40.3	< 26	< 63	< 61		
23	< 65.5	< 65.9	< 65.8	< 65.5	< 66	< 63	< 62		
24	< 69.5	< 69.5	< 69.7	< 69.5	< 52	< 64	< 63		
25	< 51.6	< 51.8	< 51.7	< 51.6	< 32	< 46	< 44		
26	< 65.3	< 66	< 66.1	< 65.4	< 36	< 37	< 36		
27	< 55.2	< 54.4	< 55	< 55.2	< 42	< 60	< 59		
28	< 68.9	< 68.3	< 68.1	< 68.9	< 38	< 62	< 63		
29	< 44.9	< 45.9	< 45.7	< 45.2	< 37	< 35	< 37		
30	< 54.7	< 54.9	< 53.1	< 54.8	< 48	< 66	< 66	< 167	(2)
31	< 42	< 42.2	< 42.2	< 42.2	< 22	< 16	< 17	< 16	
32	< 56.4	< 56.7	< 56.5	< 56.4	< 45	< 45	< 44	< 44	
33	< 21	< 20.6	< 21.8	< 20.9	< 16	< 40	< 41	< 41	
34	< 31	< 31.6	< 31.2	< 31.2	< 26	< 34	< 31	< 31	
35	< 28.4	< 28.5	< 28.4	< 28.4	< 23	< 61	< 59	< 59	
36	< 67	< 67.2	< 67.1	< 67	< 37	< 48	< 46	< 46	
37	< 62.5	< 62.8	< 62.7	< 62.4	< 50	< 69	< 66	< 67	
38	< 36.9	< 67.3	< 67.2	< 67.2	< 69	< 35	< 34	< 33	
39	< 31	< 56.8	< 56.8	< 56.5	< 55	< 56	< 55	< 56	
40	< 52	< 65.2	< 65	< 65.3	< 66	< 43	< 43	< 44	
41	< 67.6	< 37.4	< 67.8	< 67.7	< 66	< 34	< 34	< 34	
42	< 32.8	< 61.2	< 60.9	< 59.6	< 60	< 55	< 56	< 57	
43	< 60.3	< 60.5	< 59.7	< 59.6	< 36	< 63	< 59	< 59	
44	< 62.2	< 60.5	< 33.2	< 64.4	< 62	< 53	< 52	< 53	
45	< 68.2	< 68.6	< 68.5	< 68.2	< 56	< 39	< 42	< 42	
46	< 51.8	< 61.5	< 51.8	< 51.7	< 49	< 49	< 46	< 45	
47	< 30.4	< 30.5	< 30.5	< 24.2	< 31	< 32	< 31	< 30	
48	< 11.6	< 24.4	< 25.2	< 24.3	< 22	< 27	< 26	< 25	
49	< 44	< 44.2	< 44.1	< 44	< 23	< 47	< 56	< 45	
50	< 49.8	< 49.8	< 49.8	< 49.7	< 37	< 40	< 36	< 36	
51	< 20.5	< 27.5	< 27.5	< 27.4	< 28	< 45	< 27	< 27	
52	< 26.9	< 26.6	< 26.5	< 26.9	< 15	< 28	< 23	< 23	
MEAN	44 ± 30	46 ± 30	46 ± 29	47 ± 30	40 ± 30	45 ± 25	44 ± 25	47 ± 58	

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

TABLE C-VI.1 CONCENTRATIONS OF I-131 IN AIR IODINE SAMPLES COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2006

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

WEEK	GROUP III					GROUP IV
	D-08	D-10	D-13	D-14	D-55	D-12
1	< 30	< 30	< 30	< 27	< 27 (1)	< 31
2	< 33	< 33	< 34	< 47	< 47	< 33
3	< 34	< 34	< 34	< 35	< 24	< 34
4	< 34	< 34	< 33	< 39	< 41	< 34
5	< 37	< 37	< 38	< 40	< 40	< 37
6	< 48	< 50	< 50	< 43	< 43	< 50
7	< 36	< 36	< 36	< 40	< 40	< 36
8	< 26	< 25	< 26	< 42	< 43	< 25
9	< 48	< 48	< 31	< 43	< 43	< 53
10	< 29	< 30	< 31	< 28	< 28	< 31
11	< 47	< 47	< 47	< 41	< 39	< 47
12	< 26	< 26	< 27	< 34	< 34	< 26
13	< 41	< 41	< 42	< 43	< 43	< 42
14	< 26	< 39	< 39	< 40	< 40	< 39
15	< 62	< 62	< 61	< 61	< 34	< 62
16	< 44	< 32	< 46	< 51	< 51	< 46
17	< 42	< 42	< 40	< 31	< 31	< 39
18	< 62	< 62	< 61	< 61	< 61	< 34
19	< 61	< 61	< 61	< 55	< 57	< 41
20	< 40	< 40	< 40	< 40	< 22	< 40
21	< 63	< 63	< 69	< 69	< 40	< 63
22	< 62	< 62	< 62	< 63	< 60	< 62
23	< 66	< 66	< 63	< 63	< 35	< 66
24	< 66	< 65	< 66	< 62	< 64	< 66
25	< 32	< 32	< 47	< 44	< 36	< 32
26	< 52	< 55	< 53	< 37	< 37	< 52
27	< 56	< 54	< 55	< 60	< 59	< 56
28	< 62	< 62	< 63	< 62	< 62	< 63
29	< 57	< 57	< 57	< 35	< 35	< 57
30	< 60	< 60	< 60	< 42	< 66	< 60
31	< 18	< 18	< 18	< 10	< 16	< 18
32	< 66	< 66	< 66	< 36	< 45	< 66
33	< 28	< 36	< 35	< 34	< 40	< 36
34	< 56	< 56	< 60	< 48	< 34	< 57
35	< 56	< 44	< 56	< 56	< 61	< 56
36	< 67	< 67	< 67	< 55	< 46	< 67
37	< 64	< 64	< 65	< 69	< 69	< 36
38	< 39	< 31	< 39	< 39	< 35	< 39
39	< 24	< 30	< 30	< 30	< 55	< 30
40	< 36	< 55	< 52	< 50	< 43	< 52
41	< 67	< 50	< 64	< 65	< 34	< 64
42	< 23	< 42	< 43	< 43	< 56	< 43
43	< 64	< 65	< 67	< 52	< 64	< 64
44	< 36	< 64	< 65	< 67	< 54	< 65
45	< 64	< 64	< 63	< 31	< 40	< 63
46	< 53	< 49	< 50	< 51	< 49	< 50
47	< 15	< 27	< 28	< 28	< 32	< 28
48	< 14	< 26	< 26	< 26	< 27	< 27
49	< 65	< 65	< 66	< 30	< 45	< 66
50	< 18	< 36	< 36	< 25	< 37	< 36
51	< 25	< 45	< 28	< 45	< 28	< 46
52	< 25	< 25	< 32	< 18	< 28	< 31
MEAN	44 ± 33	46 ± 29	47 ± 29	44 ± 28	43 ± 25	46 ± 28

(1) SEE PROGRAM CHANGES SECTION FOR EXPLANATION

TABLE C-VII.1 CONCENTRATIONS OF I-131 IN MILK SAMPLES COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2006

RESULTS IN UNITS OF PCI/LITER \pm 2 SIGMA

COLLECTION PERIOD	CONTROL FARM
	D-25
01/05/06	< 0.6
02/02/06	< 0.4
03/02/06	< 0.6
04/06/06	< 0.3
05/05/06	< 0.7
05/19/06	< 0.6
06/02/06	< 0.7
06/16/06	< 0.95
06/30/06	< 2.9 (1)
07/14/06	< 0.6
07/28/06	< 0.8
08/10/06	< 0.3
08/25/06	< 0.7
09/08/06	< 0.3
09/22/06	< 0.5
10/06/06	< 0.3
10/19/06	< 0.7
11/03/06	< 0.7
12/07/06	< 0.3
MEAN	0.7 \pm 1.1

(1) SEE PROGRAM EXCEPTIONS SECTION FOR EXPLANATION

**TABLE C-VII.2 CONCENTRATIONS OF GAMMA EMITTERS IN MILK SAMPLES
COLLECTED THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2006**

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	01/05/06	< 8	< 9	< 19	< 9	< 24	< 9	< 11	< 9	< 38	< 10
	02/02/06	< 8	< 9	< 20	< 9	< 23	< 9	< 10	< 9	< 44	< 10
	03/02/06	< 6	< 7	< 16	< 7	< 17	< 7	< 7	< 7	< 33	< 8
	04/06/06	< 8	< 9	< 17	< 8	< 25	< 10	< 13	< 8	< 41	< 13
	05/05/06	< 8	< 8	< 20	< 9	< 21	< 10	< 8	< 8	< 51	< 14.7
	05/19/06	< 8	< 9	< 21	< 9	< 24	< 9	< 9	< 10	< 43	< 13
	06/02/06	< 7	< 8	< 19	< 8	< 18	< 8	< 8	< 8	< 44	< 14
	06/16/06	< 10	< 9	< 23	< 12	< 22	< 11	< 10	< 11	< 38	< 13
	06/30/06	< 5	< 5	< 12	< 6	< 12	< 5	< 5	< 5	< 27	< 9
	07/14/06	< 6	< 8	< 17	< 7	< 17	< 7	< 7	< 7	< 44	< 14
	07/28/06	< 6	< 7	< 18	< 6	< 19	< 8	< 8	< 7	< 37	< 12
	08/10/06	< 7	< 6	< 15	< 7	< 15	< 6	< 6	< 5	< 36	< 9
	08/25/06	< 6	< 6	< 13	< 7	< 12	< 7	< 5	< 5	< 33	< 13
	09/08/06	< 6	< 6	< 16	< 5	< 17	< 7	< 4	< 5	< 39	< 13
	09/22/06	< 7	< 7	< 15	< 7	< 15	< 9	< 7	< 8	< 29	< 8
	10/06/06	< 5	< 6	< 16	< 6	< 10	< 7	< 5	< 5	< 49	< 12
	10/19/06	< 5	< 7	< 14	< 6	< 14	< 6	< 5	< 6	< 40	< 14
	11/03/06	< 6	< 5	< 14	< 5	< 12	< 6	< 5	< 6	< 43	< 11
	12/07/06	< 6	< 6	< 17	< 7	< 16	< 6	< 6	< 6	< 41	< 8
	MEAN	7 ± 3	7 ± 3	17 ± 6	7 ± 4	17 ± 9	8 ± 3	7 ± 5	7 ± 4	39 ± 12	11 ± 5

TABLE C-VIII.1 CONCENTRATIONS OF GAMMA EMITTERS IN VEGETATION SAMPLES COLLECTED IN THE VICINITY OF DRESDEN NUCLEAR POWER STATION, 2006

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 Beets	09/16/06	< 23	< 21	< 44	< 14	< 47	< 24	< 45	< 18	< 21	< 32
D-QUAD 1 Swiss Chard	09/16/06	< 8	< 8	< 16	< 8	< 19	< 9	< 19	< 6	< 8	< 15
	MEAN	15 ± 21	14 ± 19	30 ± 40	11 ± 9	33 ± 39	16 ± 21	32 ± 37	12 ± 17	15 ± 18	23 ± 23
D-QUAD 2 Carrot greens	09/23/06	< 3	< 3	< 8	< 3	< 8	< 3	< 8	< 3	< 3	< 5
D-QUAD 2 Carrots	09/23/06	< 17	< 18	< 50	< 16	< 43	< 17	< 55	< 15	< 16	< 46
	MEAN	10 ± 19	11 ± 21	29 ± 59	10 ± 18	26 ± 50	10 ± 19	31 ± 66	9 ± 17	10 ± 19	26 ± 58
D-QUAD 3 Broccoli	09/16/06	< 11	< 11	< 28	< 10	< 26	< 9	< 25	< 10	< 9	< 20
D-QUAD 3 Potatoes	09/23/06	< 14	< 17	< 34	< 19	< 37	< 18	< 53	< 14	< 15	< 28
	MEAN	12 ± 4	14 ± 8	31 ± 9	14 ± 12	32 ± 16	13 ± 12	39 ± 40	12 ± 7	12 ± 8	24 ± 11
D-QUAD 4 Cabbage	09/16/06	< 19	< 23	< 36	< 23	< 41	< 20	< 55	< 18	< 20	< 42
D-QUAD 4 Onions	09/16/06	< 15	< 9	< 12	< 14	< 19	< 10	< 47	< 5	< 9	< 55
	MEAN	17 ± 6	16 ± 19	24 ± 34	18 ± 12	30 ± 31	15 ± 15	51 ± 11	12 ± 19	15 ± 15	49 ± 19
D-Control Sweet potato greens	09/23/06	< 2	< 2	< 4	< 2	< 4	< 2	< 4	< 1	< 2	< 2
D-Control Sweet potatoes	09/23/06	< 13	< 13	< 35	< 13	< 30	< 15	< 42	< 13	< 17	< 18
	MEAN	7 ± 17	7 ± 16	20 ± 43	7 ± 16	17 ± 36	8 ± 19	23 ± 53	7 ± 16	9 ± 21	10 ± 21

TABLE C-IX.1 QUARTERLY TLD RESULTS FOR DRESDEN NUCLEAR POWER STATION, 2006

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	23.8 ± 5.3	24	25	20	26
D-01-2	24.5 ± 6.2	27	25	20	26
D-02-1	25.8 ± 5.0	29	25	23	26
D-02-2	27.8 ± 8.1	30	31	22	28
D-03-1	21.8 ± 4.7	25	22	20	20
D-03-2	23.3 ± 14	22	33	17	21
D-04-1	25.3 ± 3.4	27	25	23	26
D-04-2	24.8 ± 5.7	28	25	21	25
D-07-1	23.8 ± 6.0	27	23	20	25
D-07-2	22.8 ± 5.3	25	23	19	24
D-08-1	24.3 ± 3.8	27	24	23	23
D-08-2	25.3 ± 3.4	27	25	23	26
D-10-1	26.0 ± 4.3	27	26	23	28
D-10-2	25.0 ± 4.3	24	28	23	25
D-12-1	23.0 ± 5.9	22	27	20	23
D-12-2	22.0 ± 5.9	25	24	19	20
D-13-1	23.0 ± 3.7	25	22	21	24
D-13-2	21.3 ± 5.5	24	23	18	20
D-14-1	23.5 ± 5.3	25	26	20	23
D-14-2	23.8 ± 4.1	26	24	21	24
D-45-1	25.0 ± 5.9	25	26	21	28
D-45-2	26.8 ± 1.0	27	27	26	27
D-53-1	20.0 ± 5.4	21	21	16	22
D-53-2	19.5 ± 4.8	21	21	16	20
D-55-1	25.8 ± 7.2	29	25	21	28
D-55-2	24.5 ± 2.0	24	26	24	24
D-56-1	20.3 ± 6.0	24	21	17	19
D-56-2	22.0 ± 4.9	25	22	19	22
D-101-1	25.8 ± 5.7	28	25	22	28
D-101-2	24.5 ± 5.3	26	27	21	24
D-102-1	26.0 ± 1.6	26	26	25	27
D-102-2	27.5 ± 4.8	29	29	24	28
D-103-1	24.8 ± 4.4	28	24	23	24
D-103-2	24.5 ± 4.2	27	25	22	24
D-104-1	26.0 ± 5.9	29	26	22	27
D-104-2	24.5 ± 6.6	28	25	20	25
D-105-1	25.0 ± 6.9	28	26	20	26
D-105-2	24.8 ± 5.0	28	24	22	25
D-106-1	23.0 ± 8.5	27	24	17	24
D-106-2	20.8 ± 4.4	22	23	18	20
D-107-1	21.8 ± 3.8	23	23	19	22
D-107-2	21.0 ± 5.9	24	21	17	22
D-108-1	25.8 ± 4.4	28	25	23	27
D-108-2	23.0 ± 5.4	25	24	19	24
D-109-1	26.8 ± 1.9	28	26	26	27
D-109-2	25.5 ± 6.6	29	26	21	26
D-110-3	28.3 ± 4.4	31	27	26	29
D-110-4	29.0 ± 4.3	32	28	27	29
D-111-1	26.8 ± 4.1	29	25	25	28
D-111-2	27.0 ± 5.9	30	28	23	27
D-112A-1	24.3 ± 6.0	28	23	21	25
D-112A-2	24.5 ± 6.2	29	24	22	23
D-113-1	22.0 ± 7.1	25	24	17	22
D-113-2	23.3 ± 4.4	26	24	22	21
D-114-1	24.0 ± 6.3	27	26	20	23
D-114-2	22.3 ± 4.4	24	23	19	23

TABLE C-IX.1 QUARTERLY TLD RESULTS FOR DRESDEN NUCLEAR POWER STATION, 2006

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-115-1	25.0 ± 3.3	27	25	23	25
D-115-2	26.0 ± 5.7	28	28	22	26
D-116-1	26.0 ± 5.9	30	25	23	26
D-116-2	26.3 ± 5.0	29	26	23	27
D-201-1	29.8 ± 6.0	31	33	26	29
D-201-2	29.8 ± 5.3	32	28	27	32
D-202-1	25.5 ± 4.2	28	25	23	26
D-202-2	24.5 ± 4.2	27	24	22	25
D-203-1	24.5 ± 5.3	27	24	21	26
D-203-2	22.8 ± 6.8	26	24	18	23
D-204-1	25.0 ± 5.9	28	25	21	26
D-204-2	24.0 ± 5.2	27	23	21	25
D-205-1	26.3 ± 7.2	29	27	21	28
D-205-2	25.3 ± 6.0	29	24	22	26
D-206-1	25.0 ± 5.2	28	24	22	26
D-206-2	25.0 ± 4.9	28	25	22	25
D-207-1	22.8 ± 4.4	25	22	20	24
D-207-2	23.3 ± 4.1	26	23	21	23
D-208-1	21.8 ± 5.0	25	22	19	21
D-208-2	21.0 ± 3.7	23	22	19	20
D-209-1	21.3 ± 3.4	23	22	19	21
D-209-2	21.8 ± 4.1	24	22	19	22
D-210-1	24.3 ± 4.7	26	26	21	24
D-210-2	25.5 ± 6.2	28	27	21	26
D-211-1	26.8 ± 6.0	28	30	23	26
D-211-2	26.0 ± 5.4	27	28	22	27
D-212-3	23.0 ± 3.3	25	23	21	23
D-212-4	22.8 ± 5.3	25	23	19	24
D-213-1	21.0 ± 6.7	22	23	16	23
D-213-2	21.0 ± 5.9	24	22	17	21
D-214-1	28.5 ± 5.0	31	29	25	29
D-214-2	28.3 ± 5.0	31	28	25	29
D-215-1	28.3 ± 5.5	31	27	25	30
D-215-2	27.3 ± 5.0	30	27	24	28
D-216-1	25.3 ± 4.4	28	24	23	26
D-216-2	27.5 ± 5.3	30	27	24	29

TABLE C-IX.2 MEAN QUARTERLY TLD RESULTS FOR THE INNER RING, OUTER RING, OTHER AND CONTROL LOCATIONS FOR DRESDEN NUCLEAR POWER STATION, 2006

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

STATION CODE	INNER RING	OUTER RING	OTHER	CONTROL
JAN-MAR	27.4 \pm 4.5	27.3 \pm 5.3	25.6 \pm 4.6	23.5 \pm 4.2
APR-JUN	25.2 \pm 3.5	25.1 \pm 5.5	24.8 \pm 5.7	25.5 \pm 4.2
JUL-SEP	21.7 \pm 5.3	21.5 \pm 5.2	20.7 \pm 5.1	19.5 \pm 1.4
OCT-DEC	25.1 \pm 4.7	25.4 \pm 5.8	24.2 \pm 5.5	21.5 \pm 4.2

TABLE C-IX.3 SUMMARY OF THE AMBIENT DOSIMETRY PROGRAM FOR DRESDEN NUCLEAR POWER STATION, 2006

RESULTS IN UNITS OF MILLI-ROENTGEN/QUARTER

LOCATION	SAMPLES ANALYZED	PERIOD MINIMUM	PERIOD MAXIMUM	PERIOD MEAN \pm 2 S. D.
INNER RING	128	17	32	24.9 \pm 6.1
OUTER RING	128	16	33	24.8 \pm 6.8
OTHER	104	16	33	23.8 \pm 6.4
CONTROL	8	19	27	22.5 \pm 5.6

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, D-55-1, D-55-2, D-56-1, D-56-2

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, 2006

SURFACE WATER (TRITIUM LIQUID SCINTILLATION)

COLLECTION PERIOD	D-51	D-52	D-54	D-57
JAN-MAR	01/06/06 - 03/31/06	01/06/06 - 03/31/06	01/05/06 - 03/30/06	(1)
APR-JUN	04/07/06 - 06/30/06	04/07/06 - 06/30/06	04/06/06 - 06/29/06	
JUL-SEP	07/07/06 - 09/29/06	07/07/06 - 09/29/06	07/06/06 - 09/28/06	
OCT-DEC	10/06/06 - 12/29/06	10/06/06 - 12/29/06	10/05/06 - 12/28/06	09/29/06 - 12/30/06

SURFACE WATER (GROSS BETA & GAMMA SPECTROSCOPY)

COLLECTION PERIOD	D-51	D-52	D-54	D-57
JAN	01/06/06 - 01/27/06	01/06/06 - 01/27/06	01/05/06 - 01/26/06	(1)
FEB	02/03/06 - 02/24/06	02/03/06 - 02/24/06	02/02/06 - 02/23/06	
MAR	03/03/06 - 03/31/06	03/03/06 - 03/31/06	03/02/06 - 03/30/06	
APR	04/07/06 - 04/28/06	04/07/06 - 04/28/06	04/06/06 - 04/27/06	
MAY	05/05/06 - 05/26/06	05/05/06 - 05/26/06	05/04/06 - 05/25/06	
JUN	06/02/06 - 06/30/06	06/02/06 - 06/30/06	06/01/06 - 06/29/06	
JUL	07/07/06 - 07/28/06	07/07/06 - 07/28/06	07/06/06 - 07/27/06	07/24/06 - 07/28/06
AUG	08/04/06 - 08/25/06	08/04/06 - 08/25/06	08/03/06 - 08/31/06	08/04/06 - 08/25/06
SEP	09/01/06 - 09/29/06	09/01/06 - 09/29/06	09/07/06 - 09/28/06	09/01/06 - 09/29/06
OCT	10/06/06 - 10/27/06	10/06/06 - 10/27/06	10/05/06 - 10/26/06	09/29/06 - 10/27/06
NOV	11/03/06 - 11/24/06	11/03/06 - 11/24/06	11/02/06 - 11/30/06	10/27/06 - 11/24/06
DEC	12/01/06 - 12/29/06	12/01/06 - 12/29/06	12/07/06 - 12/28/06	11/24/06 - 12/30/06

GROUND WATER (TRITIUM & GAMMA SPECTROSCOPY)

COLLECTION PERIOD	D-23	D-35
JAN	01/13/06 - 01/13/06	01/13/06 - 01/13/06
FEB	(1)	
MAR	03/17/06 - 03/17/06	
APR	04/14/06 - 04/14/06	04/14/06 - 04/14/06
MAY	05/12/06 - 05/12/06	
JUN	06/09/06 - 06/09/06	
JUL	07/14/06 - 07/14/06	07/14/06 - 07/14/06
AUG	08/11/06 - 08/11/06	
SEP	09/08/06 - 09/08/06	
OCT	10/13/06 - 10/13/06	10/13/06 - 10/13/06
NOV	11/10/06 - 11/10/06	
DEC	12/08/06 - 12/08/06	

(1) 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, 2006

AIR PARTICULATE (GAMMA SPECTROSCOPY)

COLLECTION PERIOD	D-01	D-02	D-03	D-04	D-07
JAN-MAR	12/30/05 - 03/31/06	12/30/05 - 03/31/06	12/30/05 - 03/31/06	12/30/05 - 03/31/06	12/30/05 - 03/31/06
APR-JUN	03/31/06 - 06/30/06	03/31/06 - 06/30/06	03/31/06 - 06/30/06	03/31/06 - 06/30/06	03/31/06 - 06/30/06
JUL-SEP	06/30/06 - 09/29/06	06/30/06 - 09/29/06	06/30/06 - 09/29/06	06/30/06 - 09/29/06	06/30/06 - 09/29/06
OCT-DEC	09/29/06 - 12/30/06	09/29/06 - 12/30/06	09/29/06 - 12/30/06	09/29/06 - 12/30/06	09/29/06 - 12/30/06

AIR PARTICULATE (GAMMA SPECTROSCOPY)

COLLECTION PERIOD	D-08	D-10	D-12	D-13	D-14
JAN-MAR	12/30/05 - 03/31/06	12/30/05 - 03/31/06	12/30/05 - 03/31/06	12/30/05 - 03/31/06	12/30/05 - 03/31/06
APR-JUN	03/31/06 - 06/30/06	03/31/06 - 06/30/06	03/31/06 - 06/30/06	03/31/06 - 06/30/06	03/31/06 - 06/30/06
JUL-SEP	06/30/06 - 09/29/06	06/30/06 - 09/29/06	06/30/06 - 09/29/06	06/30/06 - 09/29/06	06/30/06 - 09/29/06
OCT-DEC	09/29/06 - 12/30/06	09/29/06 - 12/30/06	09/29/06 - 12/29/06	09/29/06 - 12/29/06	09/29/06 - 12/29/06

AIR PARTICULATE (GAMMA SPECTROSCOPY)

COLLECTION PERIOD	D-45	D-53	D-55 (1)	D-56
JAN-MAR	12/30/05 - 03/31/06	12/30/05 - 03/31/06	12/30/05 - 03/31/06	
APR-JUN	03/31/06 - 06/30/06	03/31/06 - 06/30/06	03/31/06 - 06/30/06	(1)
JUL-SEP	06/30/06 - 09/29/06	06/30/06 - 09/29/06	06/30/06 - 09/29/06	07/25/06 - 09/29/06
OCT-DEC	09/29/06 - 12/29/06	09/29/06 - 12/30/06	09/29/06 - 12/29/06	09/29/06 - 12/30/06

(1) 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, 2006AIR PARTICULATE (GROSS BETA & I-131)

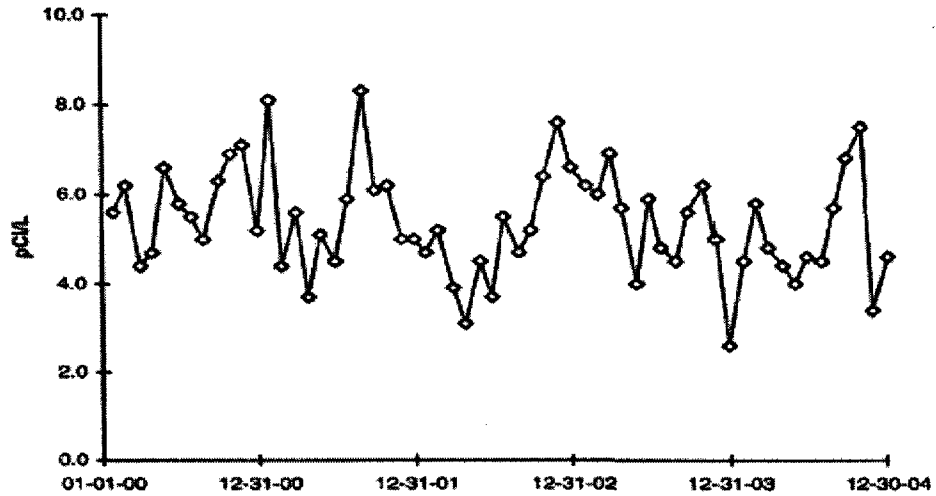
COLLECTION PERIOD	D-45	D-53	D-55 (1)	D-56
1	12/30/05 - 01/06/06	12/30/05 - 01/06/06	12/30/05 - 01/06/06	(1)
2	01/06/06 - 01/13/06	01/06/06 - 01/13/06	01/06/06 - 01/13/06	
3	01/13/06 - 01/20/06	01/13/06 - 01/20/06	01/13/06 - 01/20/06	
4	01/20/06 - 01/27/06	01/20/06 - 01/27/06	01/20/06 - 01/27/06	
5	01/27/06 - 02/03/06	01/27/06 - 02/03/06	01/27/06 - 02/03/06	
6	02/03/06 - 02/10/06	02/03/06 - 02/10/06	02/03/06 - 02/10/06	
7	02/10/06 - 02/17/06	02/10/06 - 02/17/06	02/10/06 - 02/17/06	
8	02/17/06 - 02/24/06	02/17/06 - 02/24/06	02/17/06 - 02/24/06	
9	02/24/06 - 03/03/06	02/24/06 - 03/03/06	02/24/06 - 03/03/06	
10	03/03/06 - 03/10/06	03/03/06 - 03/10/06	03/03/06 - 03/10/06	
11	03/10/06 - 03/17/06	03/10/06 - 03/17/06	03/10/06 - 03/17/06	
12	03/17/06 - 03/24/06	03/17/06 - 03/24/06	03/17/06 - 03/24/06	
13	03/24/06 - 03/31/06	03/24/06 - 03/31/06	03/24/06 - 03/31/06	
14	03/31/06 - 04/07/06	03/31/06 - 04/07/06	03/31/06 - 04/07/06	
15	04/07/06 - 04/14/06	04/07/06 - 04/14/06	04/07/06 - 04/14/06	
16	04/14/06 - 04/21/06	04/14/06 - 04/21/06	04/14/06 - 04/21/06	
17	04/21/06 - 04/28/06	04/21/06 - 04/28/06	04/21/06 - 04/28/06	
18	04/28/06 - 05/05/06	04/28/06 - 05/05/06	04/28/06 - 05/05/06	
19	05/05/06 - 05/12/06	05/05/06 - 05/12/06	05/05/06 - 05/12/06	
20	05/12/06 - 05/19/06	05/12/06 - 05/19/06	05/12/06 - 05/19/06	
21	05/19/06 - 05/26/06	05/19/06 - 05/26/06	05/19/06 - 05/26/06	
22	05/26/06 - 06/02/06	05/26/06 - 06/02/06	05/26/06 - 06/02/06	
23	06/02/06 - 06/09/06	06/02/06 - 06/09/06	06/02/06 - 06/09/06	
24	06/09/06 - 06/16/06	06/09/06 - 06/16/06	06/09/06 - 06/16/06	
25	06/16/06 - 06/23/06	06/16/06 - 06/23/06	06/16/06 - 06/23/06	
26	06/23/06 - 06/30/06	06/23/06 - 06/30/06	06/23/06 - 06/30/06	
27	06/30/06 - 07/07/06	06/30/06 - 07/07/06	06/30/06 - 07/07/06	
28	07/07/06 - 07/14/06	07/07/06 - 07/14/06	07/07/06 - 07/14/06	
29	07/14/06 - 07/21/06	07/14/06 - 07/21/06	07/14/06 - 07/21/06	
30	07/21/06 - 07/28/06	07/21/06 - 07/28/06	07/21/06 - 07/28/06	07/25/06 - 07/28/06
31	07/28/06 - 08/04/06	07/28/06 - 08/04/06	07/28/06 - 08/04/06	07/28/06 - 08/04/06
32	08/04/06 - 08/11/06	08/04/06 - 08/11/06	08/04/06 - 08/11/06	08/04/06 - 08/11/06
33	08/11/06 - 08/18/06	08/11/06 - 08/18/06	08/11/06 - 08/18/06	08/11/06 - 08/18/06
34	08/18/06 - 08/25/06	08/18/06 - 08/25/06	08/18/06 - 08/25/06	08/18/06 - 08/25/06
35	08/25/06 - 09/01/06	08/25/06 - 09/01/06	08/25/06 - 09/01/06	08/25/06 - 09/01/06
36	09/01/06 - 09/08/06	09/01/06 - 09/08/06	09/01/06 - 09/08/06	09/01/06 - 09/08/06
37	09/08/06 - 09/15/06	09/08/06 - 09/15/06	09/08/06 - 09/15/06	09/08/06 - 09/15/06
38	09/15/06 - 09/22/06	09/15/06 - 09/22/06	09/15/06 - 09/22/06	09/15/06 - 09/22/06
39	09/22/06 - 09/29/06	09/22/06 - 09/29/06	09/22/06 - 09/29/06	09/22/06 - 09/29/06
40	09/29/06 - 10/06/06	09/29/06 - 10/06/06	09/29/06 - 10/06/06	09/29/06 - 10/06/06
41	10/06/06 - 10/13/06	10/06/06 - 10/13/06	10/06/06 - 10/13/06	10/06/06 - 10/13/06
42	10/13/06 - 10/20/06	10/13/06 - 10/20/06	10/13/06 - 10/20/06	10/13/06 - 10/20/06
43	10/20/06 - 10/27/06	10/20/06 - 10/27/06	10/20/06 - 10/27/06	10/20/06 - 10/27/06
44	10/27/06 - 11/03/06	10/27/06 - 11/03/06	10/27/06 - 11/03/06	10/27/06 - 11/03/06
45	11/03/06 - 11/10/06	11/03/06 - 11/10/06	11/03/06 - 11/10/06	11/03/06 - 11/10/06
46	11/10/06 - 11/17/06	11/10/06 - 11/17/06	11/10/06 - 11/17/06	11/10/06 - 11/17/06
47	11/17/06 - 11/24/06	11/17/06 - 11/24/06	11/17/06 - 11/24/06	11/17/06 - 11/24/06
48	11/24/06 - 12/01/06	11/24/06 - 12/01/06	11/24/06 - 12/01/06	11/24/06 - 12/01/06
49	12/01/06 - 12/08/06	12/01/06 - 12/08/06	12/01/06 - 12/08/06	12/01/06 - 12/08/06
50	12/08/06 - 12/15/06	12/08/06 - 12/15/06	12/08/06 - 12/15/06	12/08/06 - 12/15/06
51	12/15/06 - 12/22/06	12/15/06 - 12/22/06	12/15/06 - 12/22/06	12/15/06 - 12/22/06
52	12/22/06 - 12/29/06	12/22/06 - 12/30/06	12/22/06 - 12/29/06	12/22/06 - 12/30/06

(1) SEE PROGRAM CHANGES SECTION FOR EXPLANATION

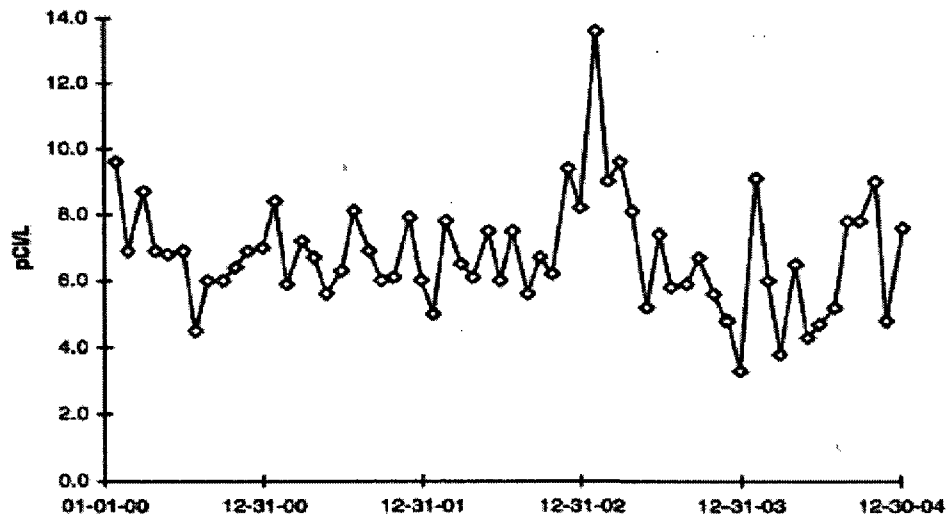
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FIGURE C-1
SURFACE WATER - GROSS BETA - STATIONS D-51 and
D-52 (C) COLLECTED IN THE VICINITY OF DNPS, 2000 - 2004

D-51 Dresden Lock & Dam

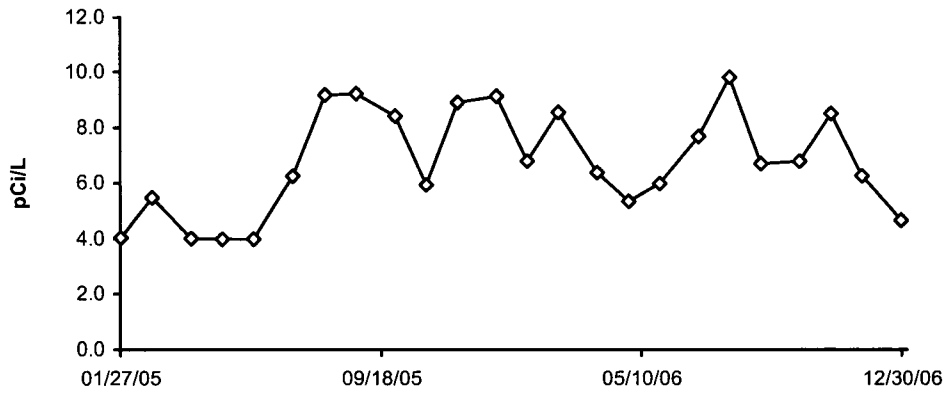


D-52 (C) DesPlaines River

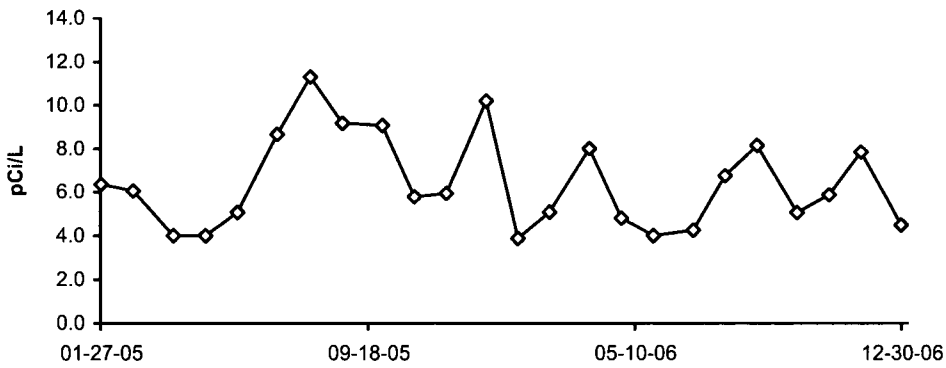


**FIGURE C-1 (cont.)
SURFACE WATER - GROSS BETA - STATIONS D-51 and
D-52 (C) COLLECTED IN THE VICINITY OF DNPS, 2005 - 2006**

D-51 Dresden Lock & Dam



D-52 (C) DesPlaines River



DUE TO VENDOR CHANGE IN 2005, < VALUES ARE LLD VALUES JANUARY THROUGH JUNE 2005 AND MDC VALUES AFTER JULY 2005

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

D-54 (C) Kankakee River

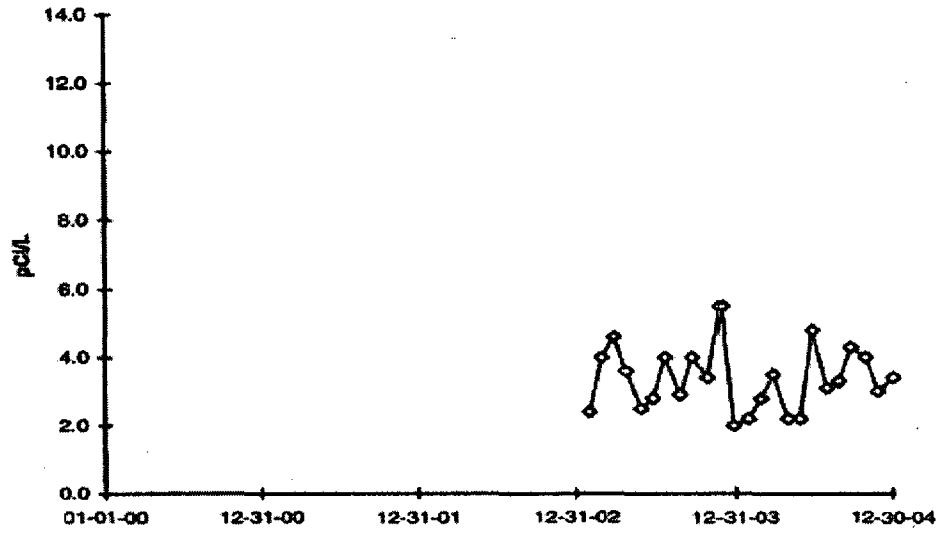
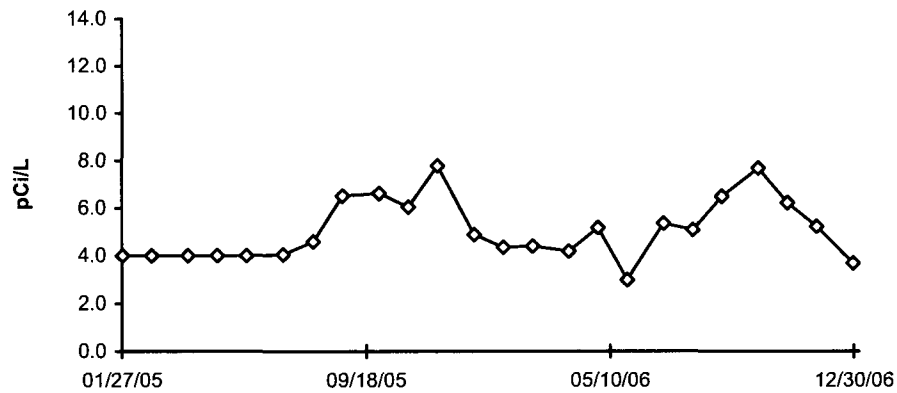
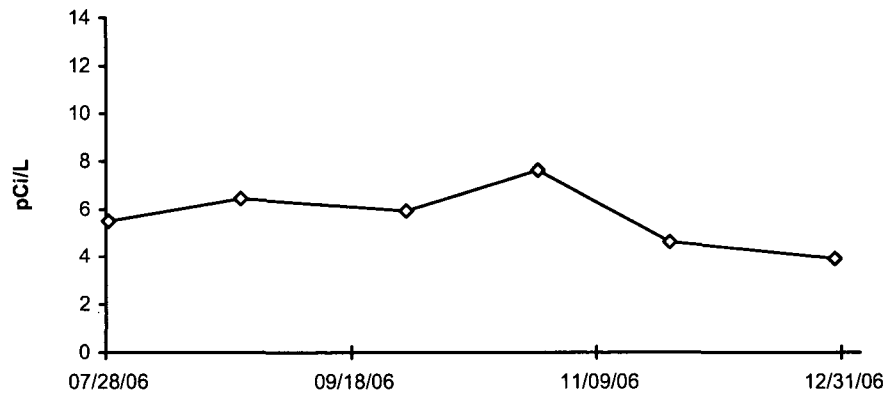


FIGURE C-2 (cont.)
SURFACE WATER - GROSS BETA - STATION D-54 (C)
COLLECTED IN THE VICINITY OF DNPS, 2005 - 2006

D-54 (C) Kankakee River



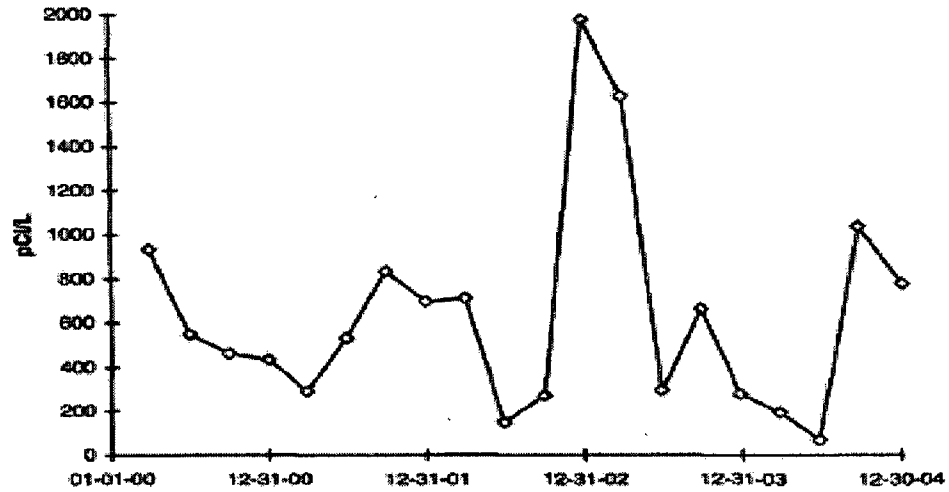
D-57 (C) Kankakee River



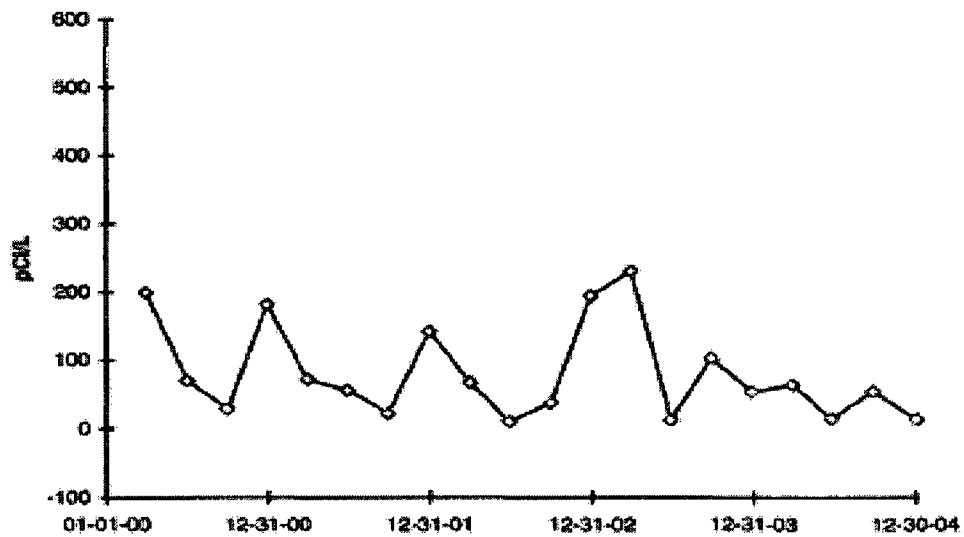
DUE TO VENDOR CHANGE IN 2005, < VALUES ARE LLD VALUES JANUARY THROUGH JUNE 2005 AND MDC VALUES AFTER JULY 2005

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

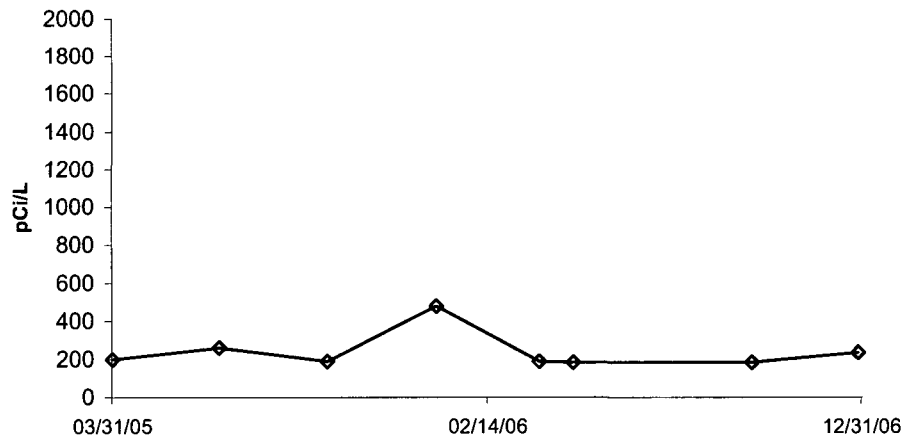


D-52 (C) Des Plaines River

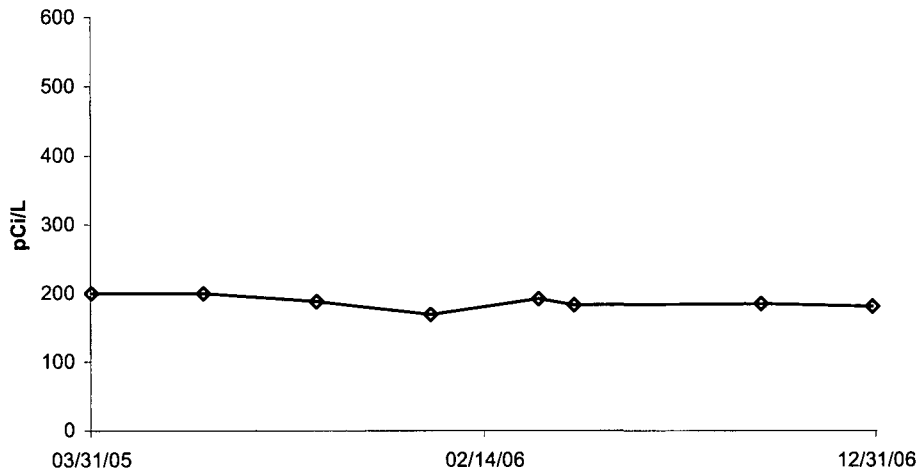


**FIGURE C-3 (cont.)
SURFACE WATER - TRITIUM - STATIONS D-51 and
D-52 (C) COLLECTED IN THE VICINITY OF DNPS, 2005 - 2006**

D-51 Dresden Lock & Dam



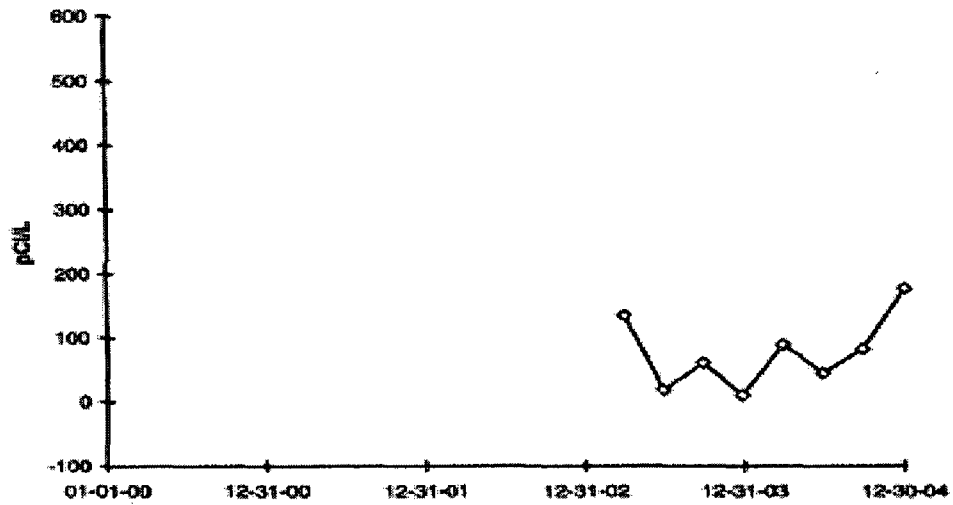
D-52 (C) Des Plaines River



DUE TO VENDOR CHANGE IN 2005, < VALUES ARE LLD VALUES JANUARY THROUGH JUNE 2005 AND MDC VALUES AFTER JULY 2005

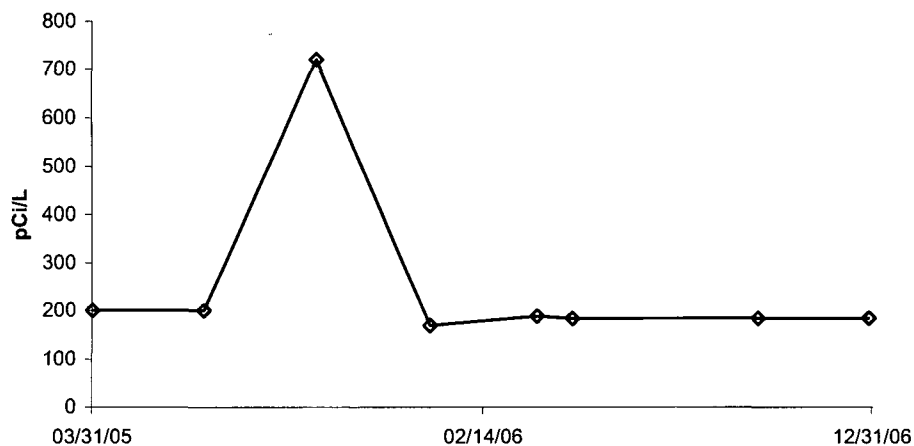
FIGURE C-4
SURFACE WATER - TRITIUM - STATION D-54 (C)
COLLECTED IN THE VICINITY OF DNPS, 2002 - 2004

D-54 (C) Kankakee River



**FIGURE C-4 (cont.)
SURFACE WATER - TRITIUM - STATION D-54 (C) AND
D-57 (C) COLLECTED IN THE VICINITY OF DNPS, 2005 - 2006**

D-54 (C) Kankakee River



Location shared with Braidwood Station (BD-10).

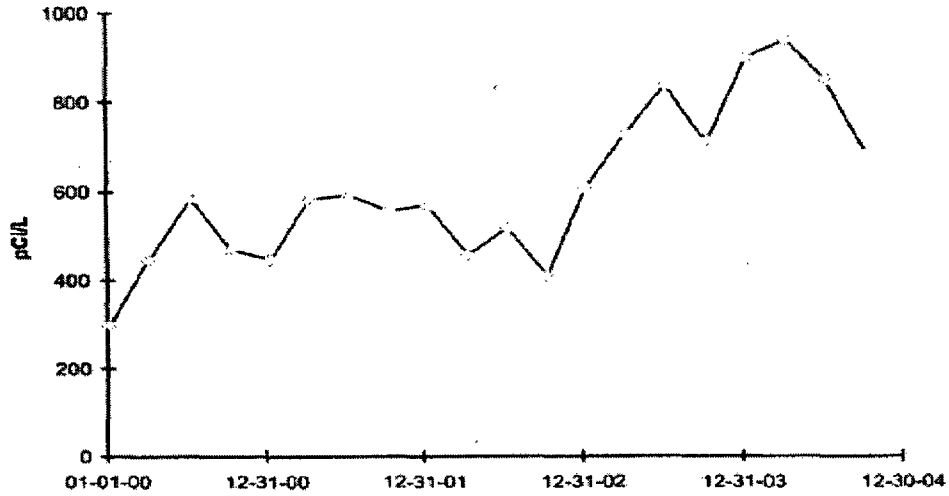
D-57 (C) Kankakee River



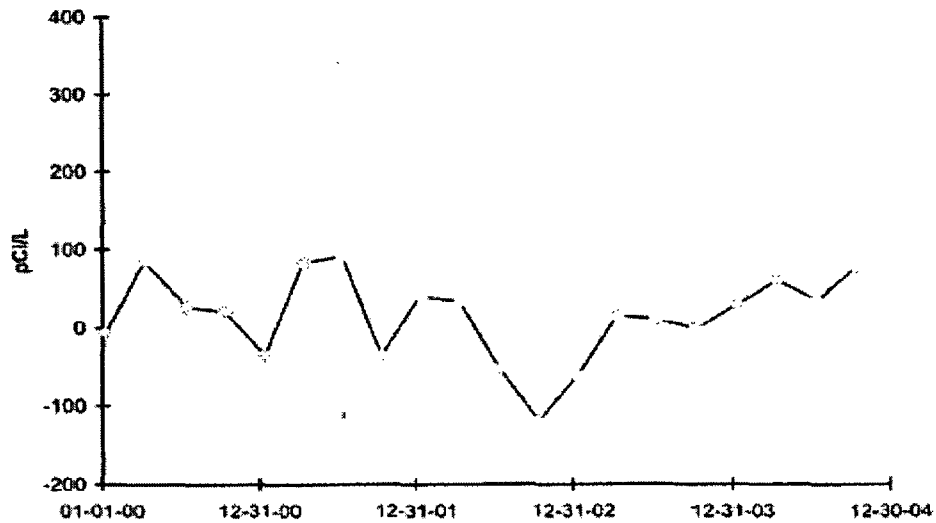
D-57 NEW STATION 07/24/06
DUE TO VENDOR CHANGE IN 2005, < VALUES ARE LLD VALUES JANUARY THROUGH JUNE 2005 AND MDC VALUES
AFTER JULY 2005

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

D-23 Thorsen

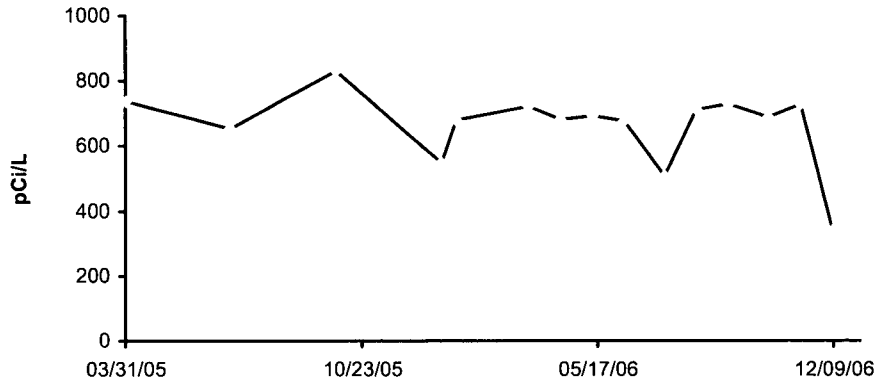


D-35 Dresden Lock and Dam

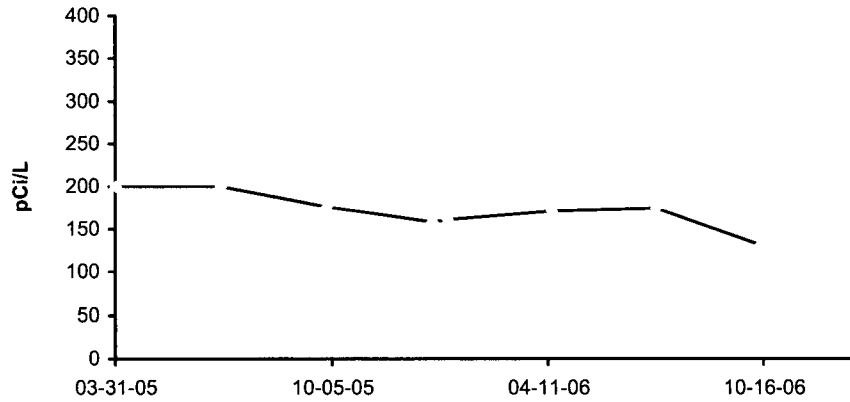


**FIGURE C-5 (cont.)
GROUND WATER - TRITIUM - STATIONS D-23 and
D-35 COLLECTED IN THE VICINITY OF DNPS, 2005 - 2006**

D-23 Thorsen



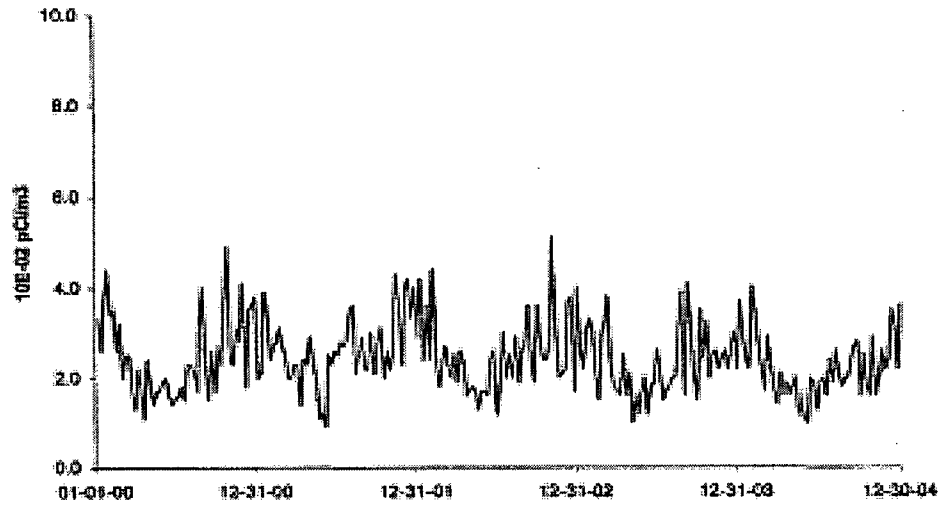
D-35 Dresden Lock and Dam



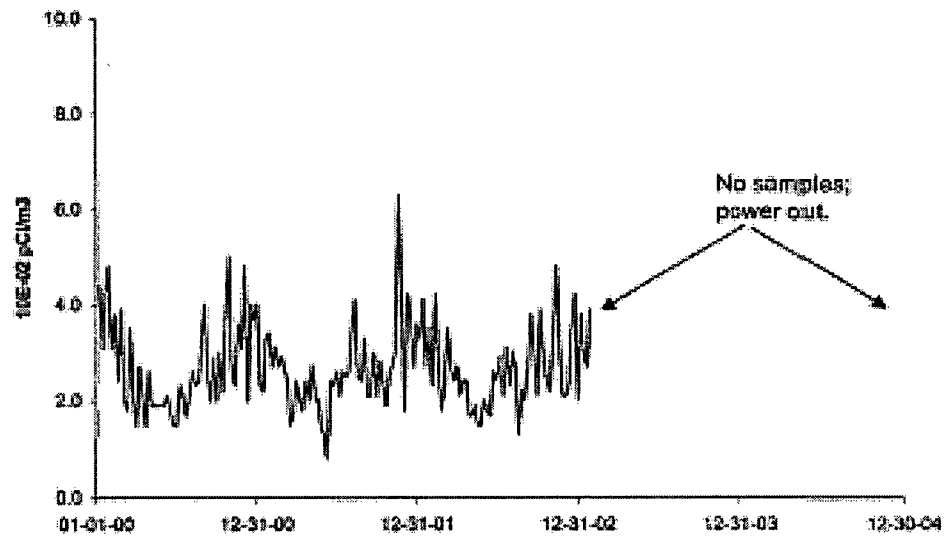
DUE TO VENDOR CHANGE IN 2005, < VALUES ARE LLD VALUES JANUARY THROUGH JUNE 2005 AND MDC VALUES AFTER JULY 2005

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

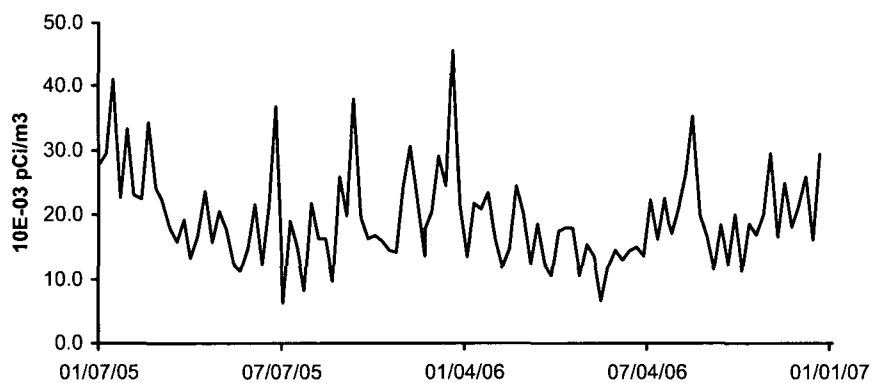


D-02 Onsite Station 2

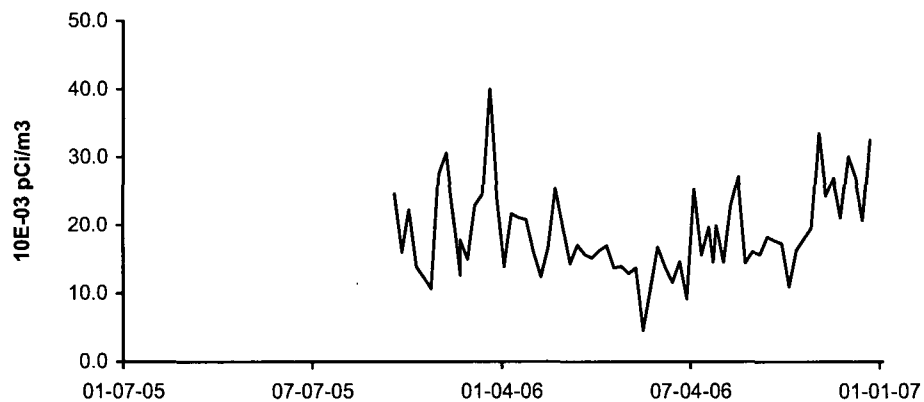


**FIGURE C-6 (cont.)
AIR PARTICULATES - GROSS BETA - STATIONS D-01 and
D-02 COLLECTED IN THE VICINITY OF DNPS, 2005 - 2006**

D-01 Onsite Station 1



D-02 Onsite Station 2

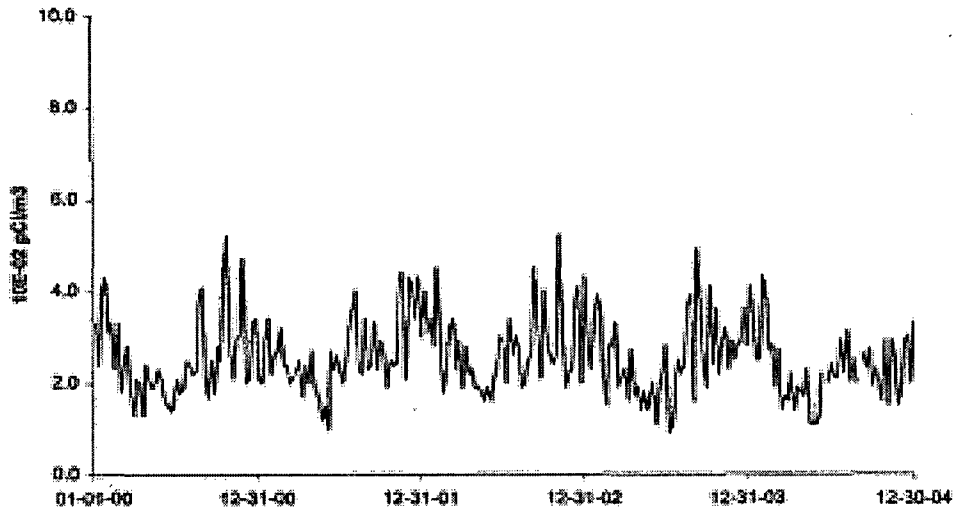


D-02 No samples; power was restored on 09-16-05.

DUE TO VENDOR CHANGE IN 2005, 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

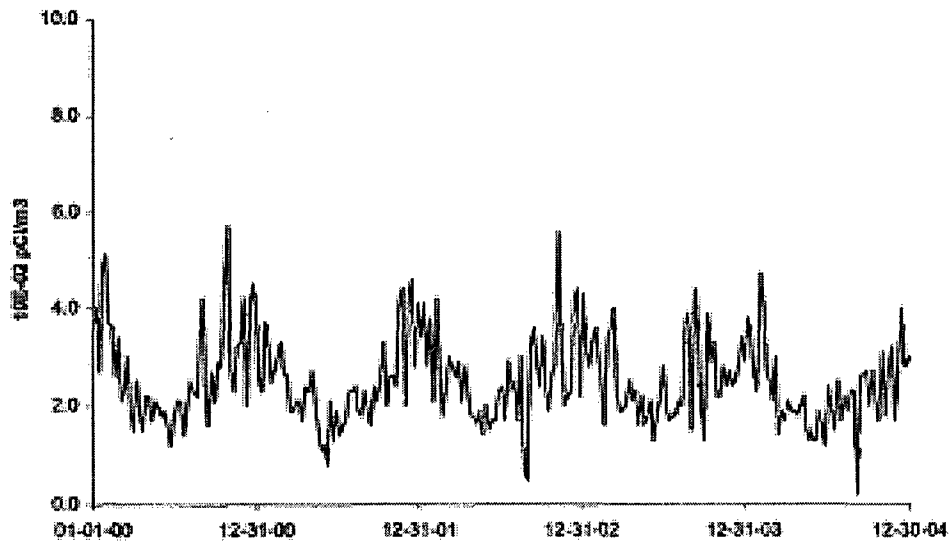
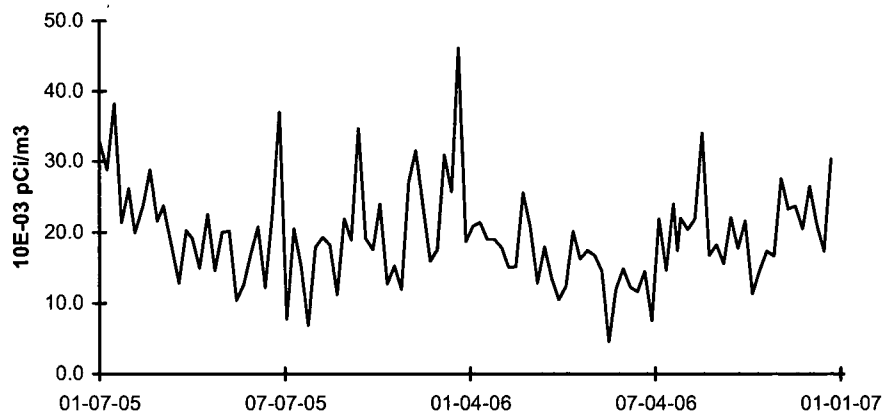
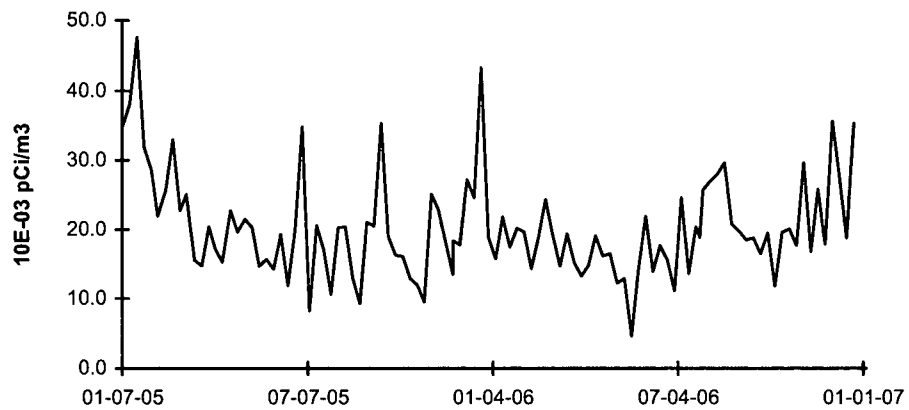


FIGURE C-7 (cont.)
AIR PARTICULATES - GROSS BETA - STATIONS D-03 and
D-04 COLLECTED IN THE VICINITY OF DNPS, 2005 - 2006

D-03 Onsite Station 3



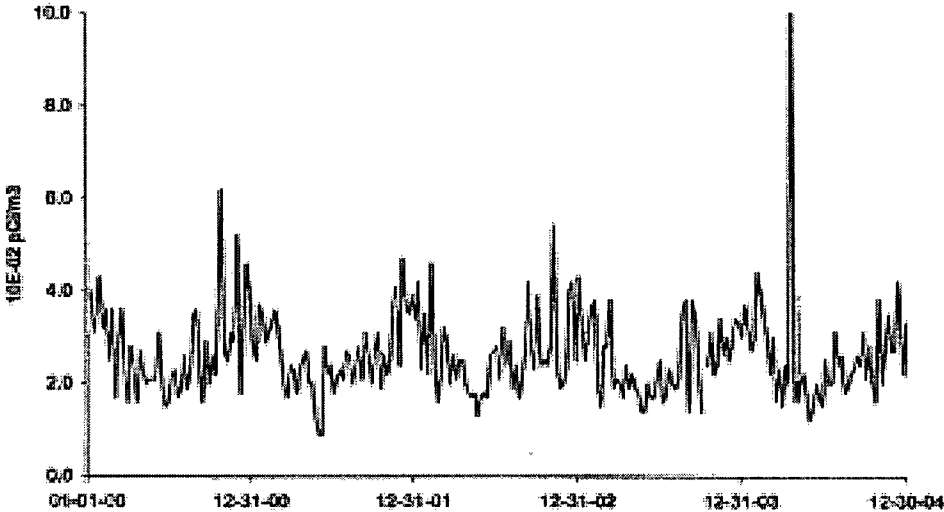
D-04 Collins Road



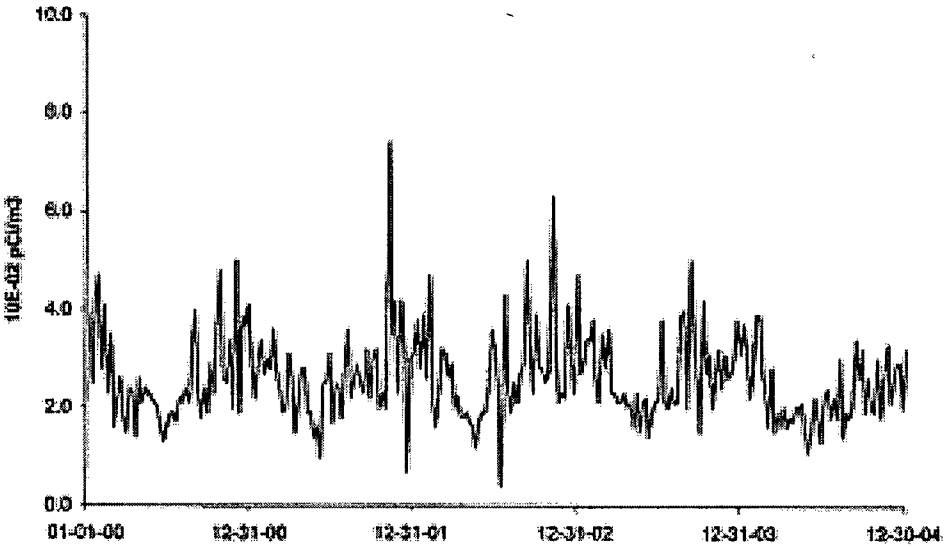
DUE TO VENDOR CHANGE IN 2005, THE REPORTED UNITS CHANGED FROM E-02 PCI/M3 TO E-03 PCI/M3

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

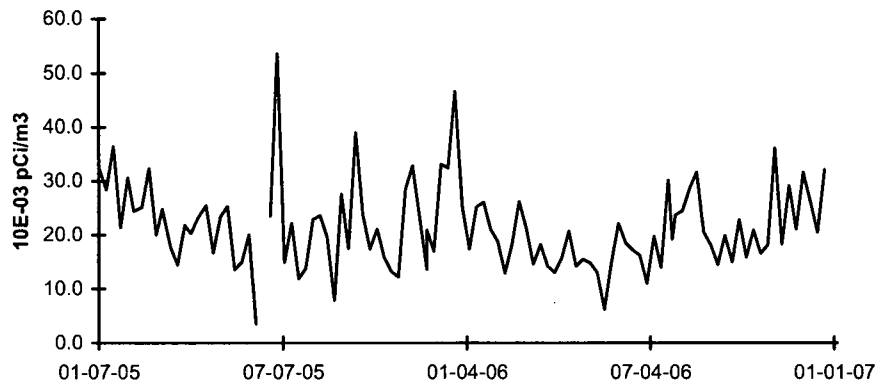


D-12 (C) Lisbon



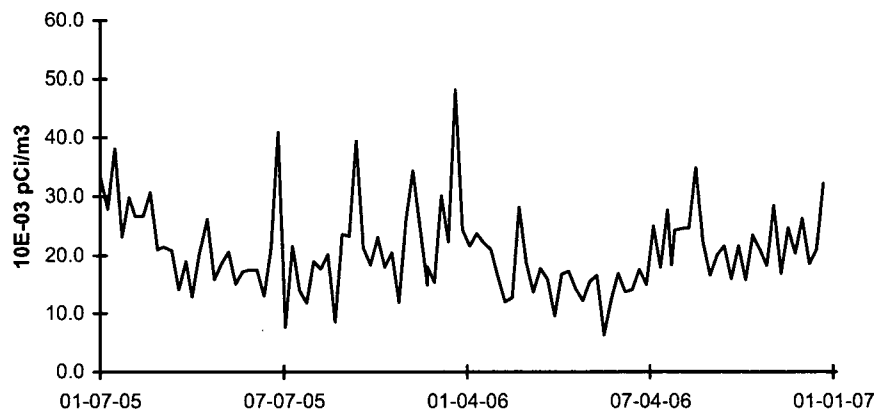
**FIGURE C-8 (cont.)
AIR PARTICULATES - GROSS BETA - STATIONS D-07 and
D-12 (C) COLLECTED IN THE VICINITY OF DNPS, 2005 - 2006**

D-07 Clay Products



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

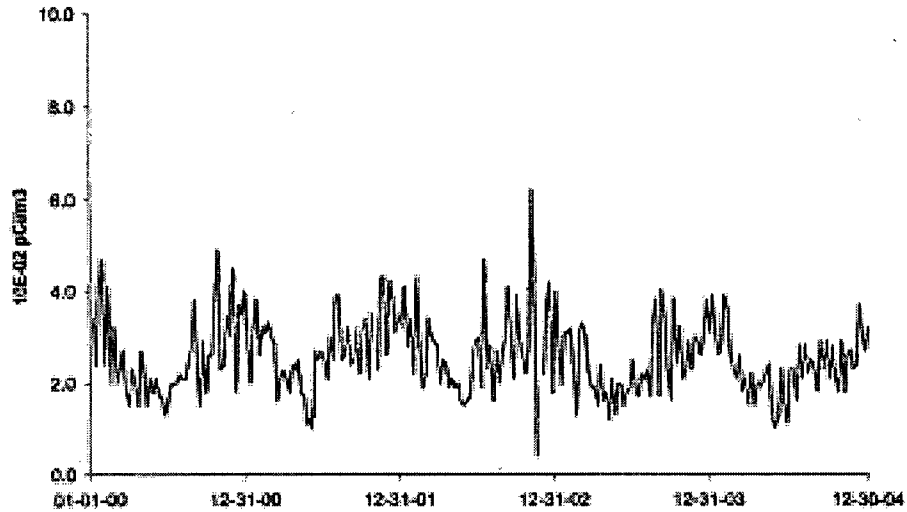
D-12 (C) Lisbon



DUE TO VENDOR CHANGE IN 2005, 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

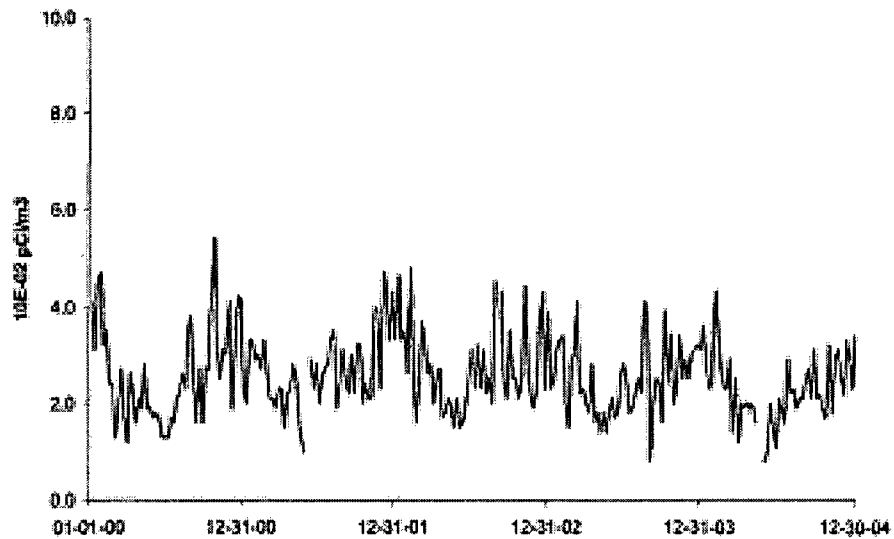
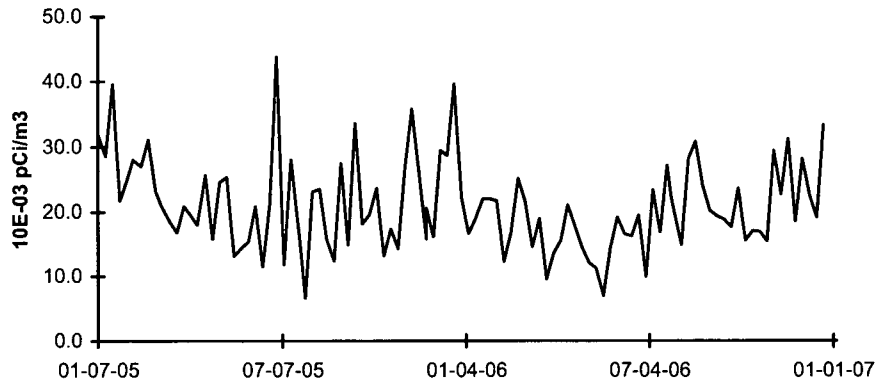
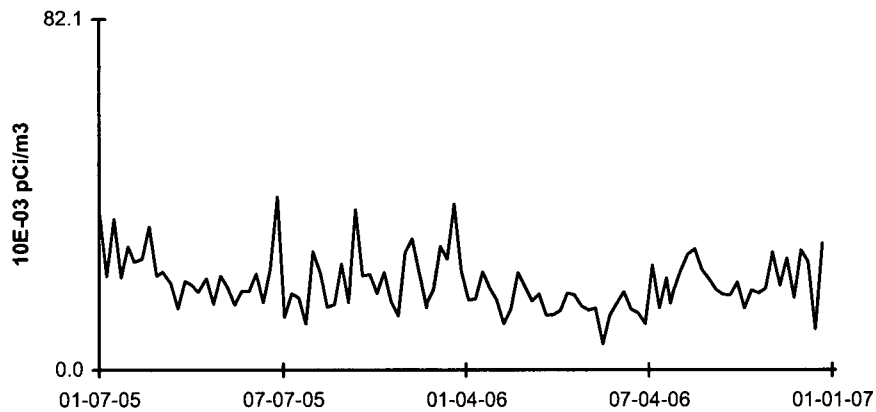


FIGURE C-9 (cont.)
AIR PARTICULATES - GROSS BETA - STATIONS D-45 and
D-53 COLLECTED IN THE VICINITY OF DNPS, 2005 - 2006

D-45 McKinley Woods Road



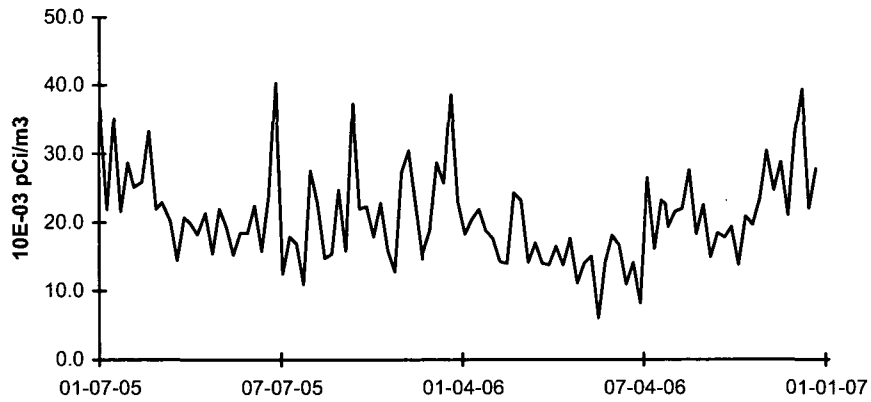
D-53 Grundy County Road



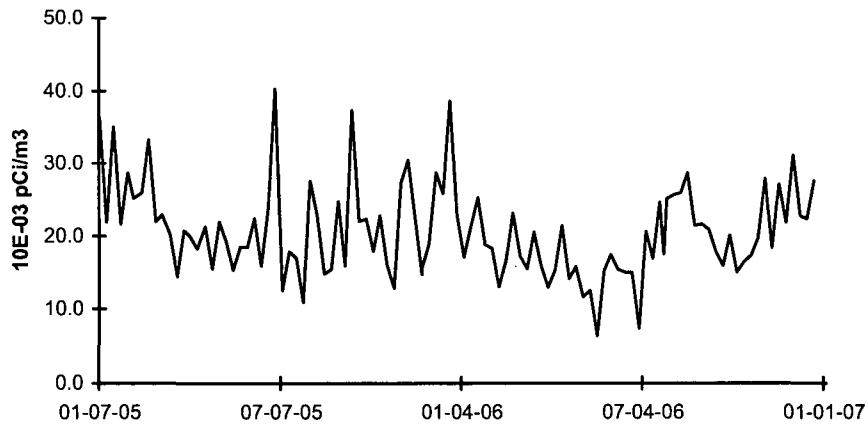
DUE TO VENDOR CHANGE, THE REPORTED UNITS CHANGED FROM E-02 PCI/M3 TO E-03 PCI/M3

FIGURE C-10
AIR PARTICULATES - GROSS BETA - STATIONS D-08 and
D-10 COLLECTED IN THE VICINITY OF DNPS, 2005 - 2006

D-08 Prairie Park



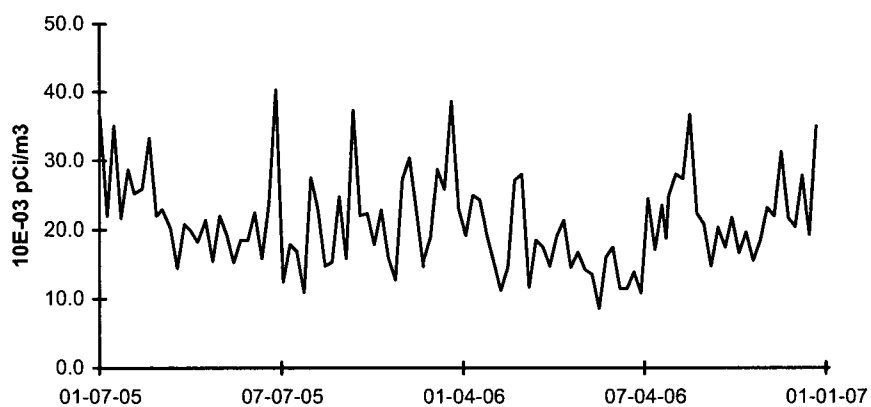
D-10 Goose Lake Village



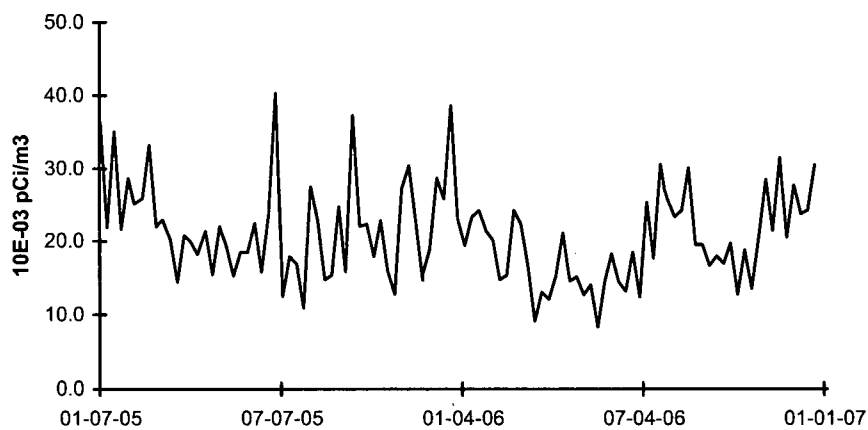
DUE TO VENDOR CHANGE IN 2005, THE REPORTED UNITS CHANGED FROM E-02 PCI/M3 TO E-03 PCI/M3

FIGURE C-11
AIR PARTICULATES - GROSS BETA - STATIONS D-13 and
D-14 COLLECTED IN THE VICINITY OF DNPS, 2005 - 2006

D-13 Minooka



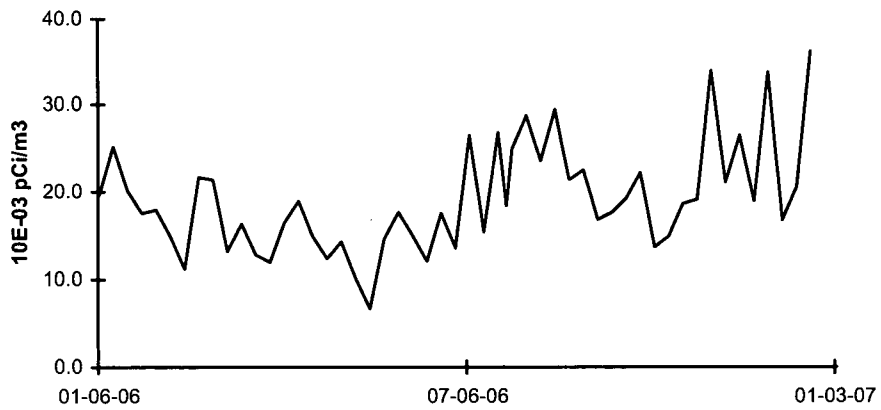
D-14 Channahon



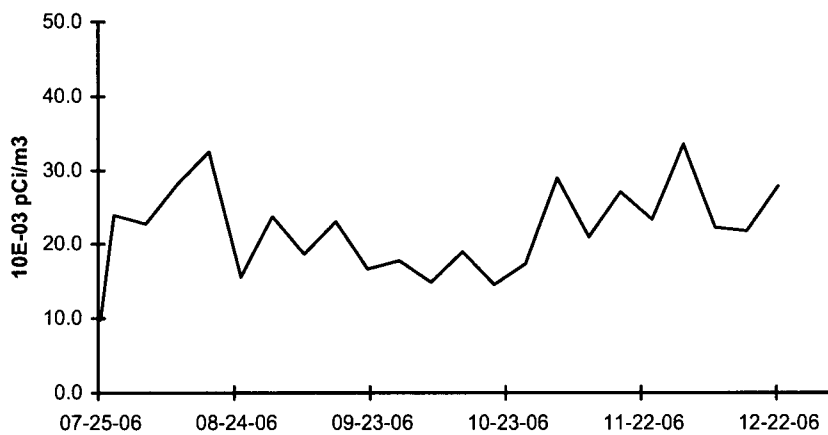
DUE TO VENDOR CHANGE IN 2005, THE REPORTED UNITS CHANGED FROM E-02 PCI/M3 TO E-03 PCI/M3

FIGURE C-12
AIR PARTICULATES - GROSS BETA - STATIONS D-55 and
D-56 COLLECTED IN THE VICINITY OF DNPS, 2006

D-55 Ridge Road



D-56 Wildfeather



D-55 NEW STATION 01/06/06

D-56 NEW STATION 07/25/06

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APPENDIX D

INTER-LABORATORY COMPARISON PROGRAM

TABLE D-1

**ANALYTICS ENVIRONMENTAL RADIOACTIVITY CROSS CHECK PROGRAM
TELEDYNE BROWN ENGINEERING, 2006**

(PAGE 1 OF 3)

Month/Year	Identification Number	Matrix	Nuclide	Units	Reported Value (a)	Known Value (b)	Ratio (c) TBE/Analytics	Evaluation (d)			
March 2006	E4964-396	Milk	Sr-89	pCi/L	91.5	99.2	0.92	A			
			Sr-90	pCi/L	12.2	10.8	1.13	A			
March 2006	E4965-396	Milk	I-131	pCi/L	74.4	78.0	0.95	A			
			Ce-141	pCi/L	95.1	104	0.91	A			
			Cr-51	pCi/L	278	280	0.99	A			
			Cs-134	pCi/L	103	121	0.85	A			
			Cs-137	pCi/L	87.6	88.8	0.99	A			
			Co-58	pCi/L	93.9	105	0.89	A			
			Mn-54	pCi/L	90.0	93.3	0.96	A			
			Fe-59	pCi/L	83.0	86.6	0.96	A			
			Zn-65	pCi/L	178	176	1.01	A			
			Co-60	pCi/L	118	128	0.92	A			
			March 2006	E4967-396	AP	Ce-141	pCi	89.9	74	1.21	W
						Cr-51	pCi	253	200	1.27	W
						Cs-134	pCi	71.5	86.1	0.83	A
Cs-137	pCi	67.5				63.3	1.07	A			
Co-58	pCi	79.7				74.6	1.07	A			
Mn-54	pCi	74.9				67	1.12	A			
Fe-59	pCi	75.5				61.8	1.22	W			
Zn-65	pCi	146				126	1.16	A			
March 2006	E4966-396	Charcoal	I-131	pCi	87.4	86.2	1.01	A			
June 2006	E5018-396	Milk	Sr-89	pCi/L	118	129	0.91	A			
			Sr-90	pCi/L	9.29	9.74	0.95	A			
June 2006	E5019-396	Milk	I-131	pCi/L	49.9	63.2	0.79	W			
			Ce-141	pCi/L	174	184	0.95	A			
			Cr-51	pCi/L	266	259	1.03	A			
			Cs-134	pCi/L	111	127	0.88	A			
			Cs-137	pCi/L	116	117	0.99	A			
			Co-58	pCi/L	101	100	1.01	A			
			Mn-54	pCi/L	144	146	0.98	A			
			Fe-59	pCi/L	96.7	93.6	1.03	A			
			Zn-65	pCi/L	182	185	0.98	A			
			Co-60	pCi/L	126	129	0.98	A			
			June 2006	E5021-396	AP	Ce-141	pCi	113	124	0.91	A
						Cr-51	pCi	176	174	1.01	A
						Cs-134	pCi	63.7	85.1	0.75	W
Cs-137	pCi	76.8				79.0	0.97	A			
Co-58	pCi	63.1				67.4	0.94	A			
Mn-54	pCi	102				99	1.04	A			
Fe-59	pCi	64.6				62.9	1.03	A			
Zn-65	pCi	131				125	1.05	A			
June 2006	E5020-396	Charcoal	I-131	pCi	81.6	86.5	0.94	A			

TABLE D-1

**ANALYTICS ENVIRONMENTAL RADIOACTIVITY CROSS CHECK PROGRAM
TELEDYNE BROWN ENGINEERING, 2006**

(PAGE 2 OF 3)

Month/Year	Identification Number	Matrix	Nuclide	Units	Reported Value (a)	Known Value (b)	Ratio (c) TBE/Analytics	Evaluation (d)		
September 2006	E5120-396	Milk	Sr-89	pCi/L	90.3	89.2	1.01	A		
			Sr-90	pCi/L	11.6	12.4	0.94	A		
	E5121-396	Milk	I-131	pCi/L	67.8	73.8	0.92	A		
			Ce-141	pCi/L	85.0	86.0	0.99	A		
			Cr-51	pCi/L	263	282	0.93	A		
			Cs-134	pCi/L	74.7	85.0	0.88	A		
			Cs-137	pCi/L	172	175	0.98	A		
			Co-58	pCi/L	107	109	0.98	A		
			Mn-54	pCi/L	110	113	0.98	A		
			Fe-59	pCi/L	46.6	43.7	1.07	A		
			Zn-65	pCi/L	144	145	0.99	A		
			Co-60	pCi/L	127	134	0.95	A		
			E5123-396	AP	Ce-141	pCi	67.1	66.4	1.01	A
					Cr-51	pCi	223	217	1.03	A
					Cs-134	pCi	51.7	65.6	0.79	W
Cs-137	pCi	134			135.0	0.99	A			
Co-58	pCi	84.8			84.3	1.01	A			
Mn-54	pCi	95.2			87	1.10	A			
Fe-59	pCi	41.6			33.7	1.23	W			
Zn-65	pCi	123			112	1.10	A			
Co-60	pCi	98.9			103	0.96	A			
		Co-57	pCi	0.922	(1)	NA	NA			
E5122-396	Charcoal	I-131	pCi	77.7	90.7	0.86	A			
December 2006	E5172-396	Milk	Sr-89	pCi/L	72.4	72.0	1.01	A		
			Sr-90	pCi/L	7.05	5.90	1.19	A		
E5173-396	Milk	I-131	pCi/L	71.9	70.8	1.02	A			
		Ce-141	pCi/L	268	294	0.91	A			
		Cr-51	pCi/L	420	433	0.97	A			
		Cs-134	pCi/L	128	147	0.87	A			
		Cs-137	pCi/L	231	237	0.97	A			
		Co-58	pCi/L	82.0	83.8	0.98	A			
		Mn-54	pCi/L	113	111	1.02	A			
		Fe-59	pCi/L	79.8	79.7	1.00	A			
		Zn-65	pCi/L	170	164	1.04	A			
		Co-60	pCi/L	265	281	0.94	A			
		E5175-396	AP	Ce-141	pCi	220	210	1.05	A	
				Cr-51	pCi	343	309	1.11	A	
				Cs-134	pCi	90.8	105	0.86	A	
Cs-137	pCi			185	169.0	1.09	A			
Co-58	pCi			65.0	59.7	1.09	A			
Mn-54	pCi			90.6	79	1.15	A			
Fe-59	pCi			70.7	56.7	1.25	W			
Zn-65	pCi			136	117	1.16	A			
Co-60	pCi	208	200	1.04	A					

TABLE D-1

ANALYTICS ENVIRONMENTAL RADIOACTIVITY CROSS CHECK PROGRAM
TELEDYNE BROWN ENGINEERING, 2006

(PAGE 3 OF 3)

Month/Year	Identification		Nuclide	Units	Reported Value (a)	Known Value (b)	Ratio (c) TBE/Analytics	Evaluation (d)
	Number	Matrix						
December 2006	E5174-396	Charcoal	I-131	pCi	77.4	85.4	0.91	A

(1) Impurity detected but not measured by Analytics.

(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, 2006**

(PAGE 1 OF 1)

Month/Year	Identification Number	Media	Nuclide	Units	Reported Value (a)	Known Value (b)	Control Limits	Evaluation (c)			
May 2006	Rad 65	Water	Sr-89	pCi/L	30.2	32.4	23.6 - 41.1	A			
			Sr-90	pCi/L	8.74	9.00	0.340 - 17.7	A			
			Ba-133	pCi/L	10.9	10.0	1.34 - 18.7	A			
			Cs-134	pCi/L	39.7	43.4	34.7 - 52.1	A			
			Cs-137	pCi/L	199	214	195 - 233	A			
			Co-60	pCi/L	111	113.0	103 - 123	A			
			Zn-65	pCi/L	146	152	126 - 178	A			
			Gr-A	pCi/L	22.9	21.3	12.1 - 30.5	A			
			Gr-B	pCi/L	23.7	23.0	14.3 - 31.7	A			
			Ra-226	pCi/L	2.64	3.02	2.23 - 3.81	A			
			U-Nat	pCi/L	74.9	69.1	57.1 - 81.1	A			
			H-3	pCi/L	7950	8130	6720 - 9540	A			
				Rad 65	Water	I-131	pCi/L	18.2	19.1	13.9 - 24.3	A
November 2006	Rad 67	Water	Sr-89	pCi/L	40.0	39.9	31.2 - 48.6	A			
			Sr-90	pCi/L	16.2	16.0	7.34 - 24.7	A			
			Ba-133	pCi/L	65.0	70.2	58.1 - 82.3	A			
			Cs-134	pCi/L	27.4	29.9	21.2 - 38.6	A			
			Cs-137	pCi/L	74.4	78.2	69.5 - 86.9	A			
			Co-60	pCi/L	61.6	62.3	53.6 - 71.0	A			
			Zn-65	pCi/L	277	277	229 - 325	A			
			Gr-A	pCi/L	23.3	28.7	16.3 - 41.1	A			
			Gr-B	pCi/L	22.0	20.9	12.2 - 29.6	A			
			U-Nat	pCi/L	3.18	3.20	0.00 - 8.40	A			
			H-3	pCi/L	2930	3050	2430 - 3670	A			
					Water	I-131	pCi/L	19.8	22.1	16.9 - 27.3	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, 2006

(PAGE 1 OF 3)

Month/Year	Identification Number	Media	Nuclide	Units	Reported Value (a)	Known Value (b)	Acceptance Range	Evaluation (c)			
January 2006	06-MaW15	Water	Am-241	Bq/L	1.29	1.30	0.91 - 1.69	A			
			Cs-134	Bq/L	79.2	95.1	66.57 - 123.63	A			
			Cs-137	Bq/L	-0.188			A			
			Co-57	Bq/L	151	166.12	116.28 - 215.96	A			
			Co-60	Bq/L	141	153.50	107.45 - 199.55	A			
			H-3	Bq/L	988	952.01	666.41 - 1237.61	A			
			Fe-55	Bq/L	106.0	129.60	90.72 - 168.48	A			
			Mn-54	Bq/L	297	315.00	220.50 - 409.50	A			
			Ni-63	Bq/L	61.5	60.34	44.24 - 78.44	A			
			Pu-238	Bq/L	0.961	0.91	0.64 - 1.18	A			
			Pu-239/240	Bq/L	0.00965	0.00710	(1)	A			
			Sr-90	Bq/L	12.6	13.16	9.21 - 17.11	A			
			Tc-99	Bq/L	22.5	23.38	16.37 - 30.39	A			
			U-234/233	Bq/L	2.20	2.09	1.46 - 2.72	A			
			U-238	Bq/L	2.23	2.17	1.52 - 2.82	A			
			Zn-65	Bq/L	219	228.16	159.71 - 296.61	A			
				06-GrW15	Water	Gr-A	Bq/L	0.575	0.581	>0.0 - 1.162	A
						Gr-B	Bq/L	1.52	1.13	0.56 - 1.70	A
				06-MaS15	Soil	Am-241	Bq/kg	48.8	57.08	39.96 - 74.20	A
Cs-134	Bq/kg	15.9						N (2)			
Cs-137	Bq/kg	370				339.69	237.78 - 441.60	A			
Co-57	Bq/kg	667				656.29	459.40 - 853.18	A			
Co-60	Bq/kg	478				447.10	312.97 - 581.23	A			
Mn-54	Bq/kg	384				346.77	242.74 - 450.80	A			
Ni-63	Bq/kg	394				323.51	226.46 - 420.56	W			
K-40	Bq/kg	667				604	423 - 785	A			
Sr-90	Bq/kg	253				314.35	220.04 - 408.66	A			
Tc-99	Bq/kg	146				154.76	108.33 - 201.19	A			
Zn-65	Bq/kg	740				657.36	460.15 - 854.57	A			
	06-RdF15	AP				Am-241	Bq/sample	0.0850	0.093	0.065 - 0.121	A
			Cs-134	Bq/sample	2.34	2.934	2.054 - 3.814	A			
			Cs-137	Bq/sample	2.45	2.531	1.772 - 3.290	A			
			Co-57	Bq/sample	3.87	4.096	2.867 - 5.325	A			
			Co-60	Bq/sample	2.12	2.186	1.530 - 2.842	A			
			Mn-54	Bq/sample	0.0206		not spiked	A			
			Pu-238	Bq/sample	0.0766	0.067	0.047 - 0.087	A			
			Pu-239/240	Bq/sample	0.00520	0.00041	(1)	A			
			Sr-90	Bq/sample	0.761	0.792	0.554 - 1.030	A			
			U-234/233	Bq/sample	0.0217	0.020	0.014 - 0.026	A			
			U-238	Bq/sample	0.0220	0.021	0.015 - 0.027	A			
			Zn-65	Bq/sample	3.86	3.423	2.396 - 4.450	A			
				06-GrF15	AP	Gr-A	Bq/sample	0.257	0.361	>0.0 - 0.722	A
Gr-B	Bq/sample	0.398				0.481	0.241 - 0.722	A			

TABLE D-3

DOE'S MIXED ANALYTE PERFORMANCE EVALUATION PROGRAM (MAPEP)
TELEDYNE BROWN ENGINEERING, 2006

(PAGE 2 OF 3)

Month/Year	Identification Number	Media	Nuclide	Units	Reported Value (a)	Known Value (b)	Acceptance Range	Evaluation (c)
January 2006	06-RdV15	Vegetation	Am-241	Bq/sample	0.156	0.156	0.109 - 0.203	A
			Cs-134	Bq/sample	0.369		not spiked	A
			Cs-137	Bq/sample	3.15	3.074	2.152 - 3.996	A
			Co-57	Bq/sample	10.1	8.578	6.005 - 11.151	A
			Co-60	Bq/sample	4.69	4.520	3.164 - 5.876	A
			Mn-54	Bq/sample	6.53	6.247	4.373 - 8.121	A
			Pu-238	Bq/sample	0.183	0.137	0.096 - 0.178	N (3)
			Pu-239/240	Bq/sample	0.111	0.164	0.115 - 0.213	N (3)
			Sr-90	Bq/sample	2.22	1.561	1.093 - 2.029	N (3)
			U-234/233	Bq/sample	0.208	0.208	0.146 - 0.270	A
			U-238	Bq/sample	0.176	0.216	0.151 - 0.281	A
			Zn-65	Bq/sample	10.5	9.798	6.859 - 12.737	A
			July 2006	06-MaW16	Water	Am-241	Bq/L	2.09
Cs-134	Bq/L	99.8				112.82	78.98 - 146.66	A
Cs-137	Bq/L	191				196.14	137.30 - 254.98	A
Co-57	Bq/L	203				213.08	149.16 - 277.00	A
Co-60	Bq/L	46.2				47.5	33.2 - 61.8	A
H-3	Bq/L	471				428.85	300.20 - 557.50	A
Fe-55	Bq/L	173				165.4	115.8 - 215.0	A
Ni-63	Bq/L	109				118.62	83.03 - 154.21	A
Pu-238	Bq/L	1.50				1.39	0.97 - 1.81	A
Pu-239/240	Bq/L	2.01				1.94	1.36 - 2.52	A
Sr-90	Bq/L	13.7				15.69	10.98 - 20.40	A
Tc-99	Bq/L	29.0				27.15	19.00 - 35.29	A
U-234/233	Bq/L	2.19				2.15	1.50 - 2.80	A
U-238	Bq/L	2.25				2.22	1.55 - 2.89	A
Zn-65	Bq/L	178				176.37	123.46 - 229.28	A
06-GrW16	Water	Gr-A		Bq/L	1.52	1.033	>0.0 - 2.066	A
		Gr-B		Bq/L	1.18	1.03	0.52 - 1.54	A
06-MaS16	Soil	Am-241		Bq/kg	83.6	105.47	73.83 - 137.11	W
		Cs-134		Bq/kg	393	452.13	316.49 - 587.77	A
		Cs-137		Bq/kg	522	525.73	368.01 - 683.45	A
		Co-57		Bq/kg	636	676.33	473.43 - 879.23	A
		Co-60		Bq/kg	3.78	1.98		A (4)
		Mn-54		Bq/kg	598	594.25	415.98 - 772.52	A
		Ni-63	Bq/kg	571	627.3	470.6 - 874.0	A	
		Pu-238	Bq/kg	71.2	82	57 - 107	A	
		Pu-239/240	Bq/kg	0.487	0.93		A (4)	
		K-40	Bq/kg	615	604	423 - 785	A	
		Sr-90	Bq/kg	178	223.3	156.3 - 290.3	W	
		Tc-99	Bq/kg	175	218.01	152.61 - 283.41	A	
		U-234/233	Bq/kg	119	152.44	106.71 - 198.17	W	
		U-238	Bq/kg	115	158.73	111.11 - 206.35	W	
		Zn-65	Bq/kg	937	903.61	632.53 - 1174.69	A	

TABLE D-3

DOE'S MIXED ANALYTE PERFORMANCE EVALUATION PROGRAM (MAPEP)
TELEDYNE BROWN ENGINEERING, 2006

(PAGE 3 OF 3)

Month/Year	Identification Number	Media	Nuclide	Units	Reported Value (a)	Known Value (b)	Acceptance Range	Evaluation (c)			
July 2006	06-RdF16	AP	Am-241	Bq/sample	0.124	0.142	0.099 - 0.185	A			
			Cs-134	Bq/sample	2.62	3.147	2.203 - 4.091	A			
			Cs-137	Bq/sample	1.98	1.805	1.263 - 2.346	A			
			Co-57	Bq/sample	2.65	2.582	1.807 - 3.357	A			
			Co-60	Bq/sample	1.63	1.577	1.104 - 2.050	A			
			Mn-54	Bq/sample	2.10	1.92	1.34 - 2.50	A			
			Pu-238	Bq/sample	0.118	0.118	0.083 - 0.153	A			
			Pu-239/240	Bq/sample	0.00822		not spiked	A			
			Sr-90	Bq/sample	0.549	0.62	0.43 - 0.81	A			
			U-234/233	Bq/sample	0.140	0.134	0.094 - 0.174	A			
			U-238	Bq/sample	0.136	0.139	0.097 - 0.181	A			
			Zn-65	Bq/sample	-0.163		not spiked	A			
				06-GrF16	AP	Gr-A	Bq/sample	0.134	0.290	>0.0 - 0.580	A
						Gr-B	Bq/sample	0.358	0.359	0.180 - 0.538	A

(1) False positive test

(2) Evaluated as a false positive by MAPEP although we considered the result a non-detect due to the peak not being identified by the gamma software. For Cs-134, MAPEP suggests the Bi-214 is not being differentiated from the Cs-134 peak.

(3) Sr samples analyzed in triplicate and one high result of 2.43 pCi/kg biased the submitted results on the high side. We were unable to determine the cause for the higher result. Since we do not analyze vegetation for isotopic Pu, no NCR was initiated for the Pu failure. MAPEP suggest pyrosulfate fusion preparation prior to analysis for isotopic Pu in vegetation samples.

(4) Not detected, reported a statistically zero result. (False positive test)

(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., 2006**

(Page 1 of 2)

Lab Code	Date	Analysis	Concentration (pCi/L)			Acceptance
			Laboratory Result ^b	ERA Result ^c	Control Limits	
STW-1078	01/16/06	Sr-89	49.9 ± 3.5	50.2	41.5 - 58.9	Pass
STW-1078	01/16/06	Sr-90	31.5 ± 1.5	30.7	22.0 - 39.4	Pass
STW-1079	01/16/06	Ba-133	86.5 ± 4.1	95.0	78.6 - 111.0	Pass
STW-1079	01/16/06	Co-60	96.3 ± 4.1	95.3	86.6 - 104.0	Pass
STW-1079	01/16/06	Cs-134	22.6 ± 3.0	23.1	14.4 - 31.8	Pass
STW-1079	01/16/06	Cs-137	109.0 ± 5.9	111.0	101.0 - 121.0	Pass
STW-1079	01/16/06	Zn-65	198.0 ± 11.2	192.0	159.0 - 225.0	Pass
STW-1080	01/16/06	Gr. Alpha	10.8 ± 1.4	9.6	1.0 - 18.3	Pass
STW-1080	01/16/06	Gr. Beta	56.9 ± 1.9	61.9	44.6 - 79.2	Pass
STW-1081	01/16/06	Ra-226	4.3 ± 0.4	4.6	3.4 - 5.8	Pass
STW-1081	01/16/06	Ra-228	7.1 ± 1.8	6.6	3.7 - 9.5	Pass
STW-1081	01/16/06	Uranium	20.7 ± 0.5	22.1	16.9 - 27.3	Pass
STW-1088	04/10/06	Sr-89	29.0 ± 1.8	32.4	23.7 - 41.1	Pass
STW-1088	04/10/06	Sr-90	8.7 ± 1.0	9.0	0.3 - 17.7	Pass
STW-1089	04/10/06	Ba-133	10.3 ± 0.4	10.0	1.3 - 18.7	Pass
STW-1089	04/10/06	Co-60	114.0 ± 2.8	113.0	103.0 - 123.0	Pass
STW-1089	04/10/06	Cs-134	41.9 ± 1.4	43.4	34.7 - 52.1	Pass
STW-1089	04/10/06	Cs-137	208.0 ± 1.1	214.0	195.0 - 233.0	Pass
STW-1089	04/10/06	Zn-65	154.0 ± 0.8	152.0	126.0 - 178.0	Pass
STW-1090	04/10/06	Gr. Alpha	13.4 ± 1.1	21.3	12.1 - 30.5	Pass
STW-1090	04/10/06	Gr. Beta	27.7 ± 2.1	23.0	14.3 - 31.7	Pass
STW-1091	04/10/06	I-131	22.0 ± 0.3	19.1	13.9 - 24.3	Pass
STW-1092	04/10/06	H-3	7960.0 ± 57.0	8130.0	6720.0 - 9540.0	Pass
STW-1092	04/10/06	Ra-226	2.9 ± 0.4	3.0	2.2 - 3.8	Pass
STW-1092	04/10/06	Ra-228	20.9 ± 1.2	19.1	10.8 - 27.4	Pass
STW-1092	04/10/06	Uranium	68.6 ± 3.4	69.1	57.1 - 81.1	Pass
STW-1094	07/10/06	Sr-89	15.9 ± 0.7	19.7	11.0 - 28.4	Pass
STW-1094	07/10/06	Sr-90	24.3 ± 0.4	25.9	17.2 - 34.6	Pass
STW-1095	07/10/06	Ba-133	94.9 ± 8.9	88.1	72.9 - 103.0	Pass
STW-1095	07/10/06	Co-60	104.0 ± 1.8	99.7	91.0 - 108.0	Pass
STW-1095	07/10/06	Cs-134	48.7 ± 1.3	54.1	45.4 - 62.8	Pass
STW-1095	07/10/06	Cs-137	236.0 ± 3.0	238.0	217.0 - 259.0	Pass
STW-1095	07/10/06	Zn-65	126.0 ± 8.0	121.0	100.0 - 142.0	Pass
STW-1096	07/10/06	Gr. Alpha	10.9 ± 1.0	10.0	1.3 - 18.6	Pass
STW-1096	07/10/06	Gr. Beta	9.7 ± 0.4	8.9	0.2 - 17.5	Pass
STW-1097	07/10/06	Ra-226	11.0 ± 0.5	10.7	7.9 - 13.5	Pass
STW-1097	07/10/06	Ra-228	12.2 ± 0.8	10.7	6.1 - 15.3	Pass
STW-1097	07/10/06	Uranium	43.4 ± 0.1	40.3	33.3 - 47.3	Pass

TABLE D-4

**ERA^(a) STATISTICAL SUMMARY PROFICIENCY TESTING PROGRAM
ENVIRONMENTAL, INC., 2006**

(Page 2 of 2)

Lab Code	Date	Analysis	Concentration (pCi/L)			Acceptance
			Laboratory Result ^b	ERA Result ^c	Control Limits	
STW-1104	10/06/06	Sr-89	38.4 ± 1.3	39.9	31.2 - 45.7	Pass
STW-1104	10/06/06	Sr-90	15.5 ± 0.5	16.0	7.3 - 24.7	Pass
STW-1105	10/06/06	Ba-133	64.9 ± 2.8	70.2	58.1 - 82.3	Pass
STW-1105	10/06/06	Co-60	61.6 ± 1.0	62.3	53.6 - 71.0	Pass
STW-1105	10/06/06	Cs-134	29.0 ± 0.9	29.9	21.2 - 38.6	Pass
STW-1105	10/06/06	Cs-137	77.8 ± 2.4	78.2	69.5 - 86.9	Pass
STW-1105	10/06/06	Zn-65	293.0 ± 2.4	277.0	229.0 - 325.0	Pass
STW-1106	10/06/06	Gr. Alpha	23.9 ± 2.5	28.7	16.3 - 41.1	Pass
STW-1106	10/06/06	Gr. Beta	23.7 ± 1.4	20.9	12.2 - 29.6	Pass
STW-1107 ^d	10/06/06	I-131	28.4 ± 1.2	22.1	16.9 - 27.3	Fail
STW-1108	10/06/06	Ra-226	14.5 ± 0.5	14.4	10.7 - 18.1	Pass
STW-1108	10/06/06	Ra-228	6.6 ± 0.4	5.9	3.3 - 8.4	Pass
STW-1108	10/06/06	Uranium	2.9 ± 0.1	3.2	0.0 - 8.4	Pass
STW-1109	10/06/06	H-3	3000.0 ± 142.0	3050.0	2430.0 - 3670.0	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 reported result was an average of three analyses, results ranged from 25.36 to 29.23 pCi/L. A fourth analysis was performed, result of analysis, 24.89 pCi/L.

**TABLE D-5 DOE'S MIXED ANALYTE PERFORMANCE EVALUATION PROGRAM (MAPEP)^g
ENVIRONMENTAL, INC., 2006**

(Page 1 of 3)

Lab Code ^c	Date	Analysis	Concentration ^b		Control Limits ^d	Acceptance
			Laboratory result	Known Activity		
STVE-1082	01/01/06	Am-241	0.16 ± 0.06	0.16	0.11 - 0.20	Pass
STVE-1082	01/01/06	Co-57	10.40 ± 0.20	8.58	6.00 - 11.15	Pass
STVE-1082	01/01/06	Co-60	5.00 ± 0.20	4.52	3.16 - 5.88	Pass
STVE-1082 ^e	01/01/06	Cs-134	< 0.20	0.00		Pass
STVE-1082	01/01/06	Cs-137	3.40 ± 0.20	3.07	2.15 - 4.00	Pass
STVE-1082	01/01/06	Mn-54	6.90 ± 0.20	6.25	4.37 - 8.12	Pass
STVE-1082 ^f	01/01/06	Pu-238	0.08 ± 0.03	0.14	0.10 - 0.18	Fail
STVE-1082	01/01/06	Pu-239/40	0.17 ± 0.03	0.16	0.11 - 0.21	Pass
STVE-1082	01/01/06	Sr-90	1.40 ± 0.20	1.56	1.09 - 2.03	Pass
STVE-1082	01/01/06	U-233/4	0.24 ± 0.05	0.21	0.15 - 0.27	Pass
STVE-1082	01/01/06	U-238	0.19 ± 0.04	0.22	0.15 - 0.28	Pass
STVE-1082	01/01/06	Zn-65	11.10 ± 0.50	9.80	6.86 - 12.74	Pass
STSO-1083	01/01/06	Am-241	54.60 ± 5.50	57.08	39.96 - 74.20	Pass
STSO-1083	01/01/06	Co-57	762.90 ± 12.70	656.29	459.40 - 853.18	Pass
STSO-1083	01/01/06	Co-60	504.90 ± 3.10	447.10	312.97 - 581.23	Pass
STSO-1083 ^e	01/01/06	Cs-134	< 1.70	0.00		Pass
STSO-1083	01/01/06	Cs-137	406.50 ± 3.70	339.69	237.78 - 441.60	Pass
STSO-1083	01/01/06	K-40	719.20 ± 18.40	604.00	422.80 - 785.20	Pass
STSO-1083	01/01/06	Mn-54	415.60 ± 4.80	346.77	242.74 - 450.80	Pass
STSO-1083	01/01/06	Ni-63	261.40 ± 14.70	323.51	226.46 - 420.56	Pass
STVE-1083 ^f	01/01/06	Pu-238	14.60 ± 2.90	61.15	42.81 - 79.50	Fail
STVE-1083 ^f	01/01/06	Pu-239/40	14.60 ± 2.40	45.85	32.09 - 59.61	Fail
STVE-1083 ^f	01/01/06	U-233/4	13.50 ± 1.70	37.00	25.90 - 48.10	Fail
STVE-1083 ^f	01/01/06	U-238	15.40 ± 1.80	38.85	27.20 - 50.50	Fail
STSO-1083	01/01/06	Zn-65	783.40 ± 7.00	657.36	460.15 - 854.57	Pass
STAP-1084	01/01/06	Gr. Alpha	0.26 ± 0.02	0.36	0.00 - 0.72	Pass
STAP-1084	01/01/06	Gr. Beta	0.51 ± 0.03	0.48	0.24 - 0.72	Pass
STAP-1085	01/01/06	Am-241	0.12 ± 0.02	0.09	0.07 - 0.12	Pass
STAP-1085	01/01/06	Co-57	4.32 ± 0.10	4.10	2.87 - 5.32	Pass
STAP-1085	01/01/06	Co-60	2.24 ± 0.16	2.19	1.53 - 2.84	Pass
STAP-1085	01/01/06	Cs-134	2.96 ± 0.19	2.93	2.05 - 3.81	Pass
STAP-1085	01/01/06	Cs-137	2.64 ± 0.20	2.53	1.77 - 3.29	Pass
STAP-1085 ^f	01/01/06	Pu-238	0.03 ± 0.01	0.07	0.05 - 0.09	Fail
STAP-1085 ^e	01/01/06	Pu-239/40	< 0.01	0.00		Pass
STAP-1085	01/01/06	Sr-90	0.77 ± 0.21	0.79	0.55 - 1.03	Pass
STAP-1085	01/01/06	U-233/4	0.03 ± 0.01	0.02	0.01 - 0.03	Pass
STAP-1085	01/01/06	U-238	0.02 ± 0.01	0.02	0.01 - 0.03	Pass
STAP-1085	01/01/06	Zn-65	3.94 ± 0.44	3.42	2.40 - 4.45	Pass

**TABLE D-5 DOE'S MIXED ANALYTE PERFORMANCE EVALUATION PROGRAM (MAPEP)^a
ENVIRONMENTAL, INC., 2006**

(Page 2 of 3)

Lab Code ^c	Date	Analysis	Concentration ^b			Acceptance
			Laboratory result	Known Activity	Control Limits ^d	
STW-1086	01/01/06	Am-241	1.29 ± 0.05	1.30	0.91 - 1.69	Pass
STW-1086	01/01/06	Co-57	177.10 ± 1.00	166.12	116.28 - 215.96	Pass
STW-1086	01/01/06	Co-60	158.30 ± 1.00	153.50	107.45 - 199.55	Pass
STW-1086	01/01/06	Cs-134	96.40 ± 1.50	95.10	66.57 - 123.63	Pass
STW-1086 ^e	01/01/06	Cs-137	< 0.80	0.00		Pass
STW-1086	01/01/06	Fe-55	102.50 ± 18.10	129.60	90.72 - 168.48	Pass
STW-1086	01/01/06	H-3	956.60 ± 16.50	952.01	666.41 - 1238.00	Pass
STW-1086	01/01/06	Mn-54	335.30 ± 2.20	315.00	220.50 - 409.50	Pass
STW-1086	01/01/06	Ni-63	62.90 ± 3.60	60.34	42.24 - 78.44	Pass
STW-1086	01/01/06	Pu-238	0.96 ± 0.07	0.91	0.70 - 1.30	Pass
STW-1086 ^e	01/01/06	Pu-239/40	< 0.20	0.00		Pass
STW-1086	01/01/06	Sr-90	12.80 ± 1.60	13.16	9.21 - 17.11	Pass
STW-1086	01/01/06	Tc-99	22.30 ± 1.20	23.38	16.37 - 30.39	Pass
STW-1086	01/01/06	U-233/4	2.02 ± 0.12	2.09	1.46 - 2.72	Pass
STW-1086	01/01/06	U-238	2.03 ± 0.12	2.17	1.52 - 2.82	Pass
STW-1086	01/01/06	Zn-65	249.50 ± 3.40	228.16	159.71 - 296.61	Pass
STW-1087	01/01/06	Gr. Alpha	0.59 ± 0.10	0.58	0.00 - 1.16	Pass
STW-1087	01/01/06	Gr. Beta	1.69 ± 0.07	1.13	0.56 - 1.70	Pass
STVE-1098 ^e	07/01/06	Co-57	< 0.14	0.00		Pass
STVE-1098 ^g	07/01/06	Co-60	6.89 ± 0.17	5.81	4.06 - 7.55	Pass
STVE-1098	07/01/06	Cs-134	8.46 ± 0.16	7.49	5.24 - 9.73	Pass
STVE-1098	07/01/06	Cs-137	6.87 ± 0.29	5.50	3.85 - 7.14	Pass
STVE-1098	07/01/06	Mn-54	10.36 ± 0.29	8.35	5.85 - 10.86	Pass
STVE-1098	07/01/06	Zn-65	7.46 ± 0.50	5.98	4.19 - 7.78	Pass
STSO-1099	07/01/06	Am-241	130.00 ± 11.60	105.47	73.83 - 137.11	Pass
STSO-1099	07/01/06	Co-57	784.90 ± 3.80	676.33	473.43 - 879.23	Pass
STSO-1099	07/01/06	Co-60	2.10 ± 0.90	1.98	0.00 - 5.00	Pass
STSO-1099	07/01/06	Cs-134	500.70 ± 7.40	452.13	316.49 - 587.77	Pass
STSO-1099	07/01/06	Cs-137	624.20 ± 4.90	525.73	368.01 - 683.45	Pass
STSO-1099	07/01/06	K-40	701.30 ± 3.40	604.00	423.00 - 785.00	Pass
STSO-1099	07/01/06	Mn-54	699.20 ± 5.20	594.25	415.98 - 772.52	Pass
STSO-1099	07/01/06	Ni-63	614.40 ± 17.10	672.30	470.60 - 874.00	Pass
STSO-1099	07/01/06	Pu-238	79.90 ± 5.80	82.00	57.00 - 107.00	Pass
STSO-1099 ^e	07/01/06	Pu-239/40	< 0.70	0.00		Pass
STSO-1099	07/01/06	U-233/4	150.50 ± 5.90	152.44	106.71 - 198.17	Pass
STSO-1099	07/01/06	U-238	151.60 ± 6.00	158.73	111.11 - 206.35	Pass
STSO-1099	07/01/06	Zn-65	1021.90 ± 9.20	903.61	632.53 - 1175.00	Pass

**TABLE D-5 DOE'S MIXED ANALYTE PERFORMANCE EVALUATION PROGRAM (MAPEP)^a
ENVIRONMENTAL, INC., 2006**

(Page 3 of 3)

Lab Code ^c	Date	Analysis	Concentration ^b		Control Limits ^d	Acceptance
			Laboratory result	Known Activity		
STAP-1100	07/01/06	Am-241	0.16 ± 0.03	0.14	0.10 - 0.19	Pass
STAP-1100	07/01/06	Co-57	2.17 ± 0.06	2.58	1.81 - 3.36	Pass
STAP-1100	07/01/06	Co-60	1.38 ± 0.07	1.58	1.10 - 2.05	Pass
STAP-1100	07/01/06	Cs-134	2.52 ± 0.13	3.15	2.20 - 4.09	Pass
STAP-1100	07/01/06	Cs-137	1.64 ± 0.08	1.81	1.26 - 2.35	Pass
STAP-1100	07/01/06	Mn-54	1.76 ± 0.18	1.92	1.34 - 2.50	Pass
STAP-1100	07/01/06	Pu-238	0.09 ± 0.02	0.12	0.08 - 0.15	Pass
STAP-1100	07/01/06	Sr-90	0.66 ± 0.21	0.62	0.43 - 0.81	Pass
STAP-1100	07/01/06	U-233/4	0.15 ± 0.02	0.13	0.09 - 0.17	Pass
STAP-1100	07/01/06	U-238	0.13 ± 0.02	0.14	0.10 - 0.18	Pass
STAP-1100 ^e	07/01/06	Zn-65	< 0.07	0.00		Pass
STAP-1101	07/01/06	Gr. Alpha	0.08 ± 0.03	0.29	0.00 - 0.58	Pass
STAP-1101	07/01/06	Gr. Beta	0.41 ± 0.05	0.36	0.18 - 0.54	Pass
STW-1102	07/01/06	Gr. Alpha	0.76 ± 0.07	1.03	0.00 - 2.07	Pass
STW-1102	07/01/06	Gr. Beta	1.23 ± 0.06	1.03	0.52 - 1.54	Pass
STW-1103	07/01/06	Am-241	1.86 ± 0.09	2.31	1.62 - 3.00	Pass
STW-1103	07/01/06	Co-57	224.10 ± 1.20	213.08	149.16 - 277.00	Pass
STW-1103	07/01/06	Co-60	49.40 ± 0.50	47.50	33.20 - 61.80	Pass
STW-1103	07/01/06	Cs-134	112.70 ± 0.90	112.82	78.97 - 146.66	Pass
STW-1103	07/01/06	Cs-137	206.60 ± 1.40	196.14	137.30 - 254.98	Pass
STW-1103	07/01/06	Fe-55	138.40 ± 5.40	165.40	115.80 - 215.00	Pass
STW-1103	07/01/06	H-3	446.50 ± 11.80	428.85	300.20 - 557.50	Pass
STW-1103 ^e	07/01/06	Mn-54	< 0.30	0.00		Pass
STW-1103	07/01/06	Ni-63	116.70 ± 3.60	118.62	83.03 - 154.21	Pass
STW-1103	07/01/06	Pu-238	1.27 ± 0.07	1.39	0.97 - 1.81	Pass
STW-1103	07/01/06	Pu-239/40	1.67 ± 0.08	1.94	1.36 - 2.52	Pass
STW-1103	07/01/06	Sr-90	16.40 ± 1.90	15.69	10.98 - 20.40	Pass
STW-1103	07/01/06	Tc-99	29.40 ± 1.10	27.15	19.00 - 35.29	Pass
STW-1103	07/01/06	U-233/4	1.97 ± 0.08	2.15	1.50 - 2.80	Pass
STW-1103	07/01/06	U-238	1.97 ± 0.08	2.22	1.55 - 2.89	Pass
STW-1103	07/01/06	Zn-65	192.50 ± 2.40	176.37	123.46 - 229.28	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).

^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 Included in the MAPEP as a false positive.

^f Difficulties with the analyses for transuranics isotopes in solid samples (Filters, Soil and vegetation), were attributed to incomplete dissolution of the samples. Soil samples were repeated, results of reanalyses: Pu-238, 53.1 ± 5.3 bq/kg. Pu-239/240, 42.4 ± 4.7 bq/kg. U-233/4, 33.3 ± 3.5 bq/kg. U-238, 35.5 ± 3.6 bq/kg.

^g The July vegetation sample was provided in two separate geometries, (100 ml. and 500 ml.). Results reported here used the 500 ml. standard size geometry. Results for the 100 ml. geometry showed approximately a 15% higher bias.

APPENDIX E

ERRATA DATA

There is no errata data for 2006.

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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. The station uses two boiling water reactors (Units 2 and 3, 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 diluted and released to the Illinois River in controlled batches after radioassay of each batch. Gaseous effluents are released to the atmosphere after treatment 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 samples of iodine and particulate activity sampled during the course of the year. The results of effluent analyses are used to calculate dose to the public and are reported to the Nuclear Regulatory Commission as required per Technical Specifications. Airborne concentrations of noble gases, iodines, 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 public dose.

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 $8.23\text{E}+00$ 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 ($8.22\text{E}+00$ mrem). The balance of the calculated maximum dose 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 $2.59\text{E}+02$ curies of noble gases with a maximum quarterly average release rate of $2.23\text{E}+01$ $\mu\text{Ci}/\text{sec}$ were released from Dresden Units 1, 2, and 3.

A total of $5.03\text{E}-04$ curies of I-131 were released during the year with a maximum average quarterly release rate of $2.06\text{E}-05$ $\mu\text{Ci}/\text{sec}$.

A total of $3.16\text{E}-03$ curies of particulate activity with half lives greater than eight days were released as airborne particulate matter with a maximum quarterly average release rate of $2.34\text{E}-04$ $\mu\text{Ci}/\text{sec}$. Alpha-emitting radionuclides were below LLD for the period. Also, $2.29\text{E}+01$ curies of tritium were released with a maximum quarterly average release rate of $1.31\text{E}+00$ $\mu\text{Ci}/\text{sec}$.

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 $8.45\text{E}+06$ liters of radioactive liquid waste containing $3.13\text{E}-02$ 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 $6.40\text{E}-08$ $\mu\text{Ci}/\text{ml}$ from the station. During the same period, $1.10\text{E}+01$ curies of tritium were released with a maximum quarterly average diluted concentration of $4.64\text{E}-05$ $\mu\text{Ci}/\text{ml}$. 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 2006 Annual 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” are also used to calculate 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 $7.54\text{E-}03$ 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 $5.57\text{E-}03$ mrem (Table 3.4-1). The maximum gamma air dose based on measured effluents and historical meteorological data was $5.87\text{E-}03$ mrad (Table 3.1-1) and $1.24\text{E-}02$ mrad based on concurrent meteorological data (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 $4.98\text{E-}03$ mrem (Table 3.1-1) and $6.64\text{E-}03$ 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 $6.65\text{E-}04$ mrad (Table 3.1-1) and $1.28\text{E-}03$ mrad based on concurrent meteorological data (Table 3.4-1).

3.1.2 Radioactive Iodine

The human thyroid exhibits a significant capacity to concentrate ingested or inhaled iodine. The radioiodine, I-131, released during routine operation of the station, may be made available to man resulting in a dose to the thyroid. The principal pathway of interest for this radionuclide is ingestion of radioiodine in milk. Calculations made in previous years indicate that contributions to doses from inhalation of I-131 and I-133, and from ingestion of I-133 in milk are negligible.

3.1.2.1 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 $2.67\text{E-}02$ 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 $3.38\text{E-}04$ mrem and $5.26\text{E-}04$ mrem, respectively (adult, Table 3.2-1).

3.3 Assessment of Dose to Member of Public

During the period January to December, 2006, 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 2006 was 4.25E-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 99.7% during 2006.

*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
 January Through December 2006

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

Units	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	Est. Total Error, %
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A. Fission & activation gases

1. Total release	Ci	8.35E+00	7.71E+00	6.59E+01	1.77E+02	1.24E+01
2. Average release rate for period	μCi/sec	1.07E+00	9.81E-01	8.29E+00	2.23E+01	

B. Iodines

1. Total iodine-131	Ci	6.80E-05	1.15E-04	1.57E-04	1.64E-04	3.08E+01
2. Average release rate for period (I-131)	μCi/sec	8.74E-06	1.46E-05	1.97E-05	2.06E-05	

C. Particulates

1. Particulates with half-lives > 8 days	Ci	3.74E-04	2.04E-04	7.19E-04	1.86E-03	2.80E+01
2. Average release rate for period	μCi/sec	4.81E-05	2.59E-05	9.04E-05	2.34E-04	
3. Gross alpha radioactivity	Ci	<LLD	<LLD	<LLD	<LLD	

D. Tritium

1. Total release	Ci	4.43E+00	4.91E+00	1.04E+01	3.16E+00	7.55E+00
2. Average release rate for period	μCi/sec	5.70E-01	6.25E-01	1.31E+00	3.97E-01	

Table 1.2-1

LIQUID EFFLUENTS SUMMATION OF ALL LIQUID RELEASES

DRESDEN NUCLEAR POWER STATION
January Through December 2006

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

	Units	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter	Est. Total Error, %
A. Fission and activation products						
1. Total release (not including H-3, gases, alpha)	Ci	2.42E-03	1.63E-03	1.92E-02	8.10E-03	1.83E+01
2. Average diluted concentration during period	μCi/ml	2.38E-08	2.52E-09	6.40E-08	2.16E-08	
B. Tritium						
1. Total release	Ci	4.72E+00	2.96E+00	5.74E-01	2.78E+00	2.37E+00
2. Average diluted concentration during period	μCi/ml	4.64E-05	4.57E-06	1.92E-06	7.44E-06	
C. Dissolved and entrained gases						
1. Total release	Ci	<LLD	<LLD	<LLD	<LLD	2.03E+01
2. Average diluted concentration during period	μCi/ml	<LLD	<LLD	<LLD	<LLD	
D. Gross alpha activity						
1. Total release	Ci	<LLD	<LLD	<LLD	<LLD	2.00E+01
E. Volume of waste released (prior to dilution)						
	Liters	6.75E+05	3.91E+06	1.63E+06	2.23E+06	1.00E+00
F. Volume of dilution water used during period						
	Liters	1.01E+08	6.43E+08	2.98E+08	3.72E+08	5.00E+00

Table 3.1-1

MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES

DRESDEN NUCLEAR POWER STATION

January Through December 2006

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

1. Unit 1

	Quarterly Limit	Maximum Doses from Airborne Releases				Yearly Limit	Annual Dose
		1 st QTR	2 nd QTR	3 rd QTR	4 th 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	2.17E-06(c)	6.17E-06(t)	4.81E-06(c)	7.84E-04(i,c)	15.0 mrem	7.94E-04 (c)
Critical Organ		Lung	GI_LLI	GI_LLI	Liver (i) Bone (c)		Liver

2. Unit 2

	Quarterly Limit	Maximum Doses from Airborne Releases				Yearly Limit	Annual Dose
		1 st QTR	2 nd QTR	3 rd QTR	4 th QTR		
Gamma Air (mrad)	5.0 mrad	5.86E-05 (e)	6.00E-05 (e)	1.50E-03 (e)	3.81E-03 (e)	10.0 mrad	5.43E-03 (e)
Beta Air (mrad)	10.0 mrad	3.67E-06 (e)	3.68E-06 (e)	1.02E-04 (e)	5.34E-04 (e)	20.0 mrad	6.38E-04 (e)
Total Body (mrem)	2.5 mrem	4.42E-05 (e)	4.53E-05 (e)	1.78E-03 (e)	5.36E-03 (e)	5.0 mrem	7.21E-03 (e)
Skin (mrem)	7.5 mrem	4.84E-05 (e)	4.96E-05 (e)	1.25E-03 (e)	3.26E-03 (e)	15.0 mrem	4.61E-03 (e)
Organ (mrem)	7.5 mrem	4.79E-04 (a)	3.94E-03 (c)	8.32E-03 (c)	1.52E-03 (c)	15.0 mrem	1.42E-02 (c)
Critical Organ		GI_LLI	Thyroid	Thyroid	Thyroid		Thyroid

3. Unit 3

	Quarterly Limit	Maximum Doses from Airborne Releases				Yearly Limit	Annual Dose
		1 st QTR	2 nd QTR	3 rd QTR	4 th QTR		
Gamma Air (mrad)	5.0 mrad	1.14E-04 (e)	1.08E-04 (e)	1.08E-04 (e)	1.12E-04 (e)	10.0 mrad	4.43E-04 (e)
Beta Air (mrad)	10.0 mrad	7.33E-06 (e)	6.67E-06 (e)	6.38E-06 (e)	6.17E-06 (e)	20.0 mrad	2.66E-05 (e)
Total Body (mrem)	2.5 mrem	8.63E-05 (e)	8.14E-05 (e)	8.18E-05 (e)	8.45E-05 (e)	5.0 mrem	3.34E-04 (e)
Skin (mrem)	7.5 mrem	9.45E-05 (e)	8.90E-05 (e)	8.92E-05 (e)	9.20E-05 (e)	15.0 mrem	3.65E-04 (e)
Organ (mrem)	7.5 mrem	5.18E-04 (a)	3.34E-03 (c)	7.36E-03 (c)	1.44E-03 (c)	15.0 mrem	1.25E-02 (c)
Critical Organ		GI_LLI	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
January Through December 2006

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

1. Unit 1

	Quarterly Limit	Maximum Doses from Liquid Releases				Yearly Limit	Annual Dose
		1 st QTR	2 nd QTR	3 rd QTR	4 th 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

2. Unit 2

	Quarterly Limit	Maximum Doses from Liquid Releases				Yearly Limit	Annual Dose
		1 st QTR	2 nd QTR	3 rd QTR	4 th QTR		
Total Body (mrem)	1.5 mrem	1.36E-05 (c)	2.52E-05 (a)	8.40E-05 (a)	4.53E-05 (a)	3.0 mrem	1.66E-04 (a)
Organ (mrem)	5.0 mrem	1.97E-05 (a)	3.60E-05 (c)	1.30E-04 (t)	8.29E-05 (a)	10.0 mrem	2.60E-04 (a)
Critical Organ		GI_LLI	Liver	Liver	Liver		Liver

3. Unit 3

	Quarterly Limit	Maximum Doses from Liquid Releases				Yearly Limit	Annual Dose
		1 st QTR	2 nd QTR	3 rd QTR	4 th QTR		
Total Body (mrem)	1.5 mrem	1.45E-05 (c)	2.52E-05 (a)	8.40E-05 (a)	5.03E-05 (a)	3.0 mrem	1.72E-04 (a)
Organ (mrem)	5.0 mrem	2.03E-05 (a)	3.60E-05 (c)	1.30E-04 (t)	8.78E-05 (a)	10.0 mrem	2.66E-04 (a)
Critical Organ		GI_LLI	Liver	Liver	Liver		Liver

* 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 01/01/06 TO 12/31/06

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

Total Effective Dose Equivalent, mrem/yr 7.87E-04

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

% of limit 0.00

Compliance Summary - 10CFR20

	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	% of Limit
TEDE	2.14E-06	5.85E-06	4.43E-06	7.76E-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 01/01/06 TO 12/31/06

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

		Dose (mrem)	Limit (mrem)	% of Limit
Whole Body (DDE)	Plume	0.00E+00		
	Skyshine	0.00E+00		
	Ground	7.77E-04		
	Total	7.77E-04	25.0	0.00
Organ Dose (CDE)	Thyroid	9.20E-06	75.0	0.00
	Gonads	1.03E-05	25.0	0.00
	Breast	9.12E-06	25.0	0.00
	Lung	9.66E-06	25.0	0.00
	Marrow	9.66E-06	25.0	0.00
	Bone	9.22E-06	25.0	0.00
	Remainder	1.11E-05	25.0	0.00
	CEDE	1.01E-05		
TEDE	7.87E-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 01/01/06 TO 12/31/06

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

Total Effective Dose Equivalent, mrem/yr 4.15E+00

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

% of limit 4.15

Compliance Summary - 10CFR20

	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	% of Limit
TEDE	1.07E+00	1.07E+00	1.06E+00	9.51E-01	4.15

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 01/01/06 TO 12/31/06

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

		Dose (mrem)	Limit (mrem)	% of Limit
Whole Body (DDE)	Plume	7.21E-03		
	Skyshine	4.14E+00		
	Ground	5.96E-04		
	Total	4.14E+00	25.0	16.57
Organ Dose (CDE)	Thyroid	5.80E-03	75.0	0.01
	Gonads	5.62E-03	25.0	0.02
	Breast	5.58E-03	25.0	0.02
	Lung	5.59E-03	25.0	0.02
	Marrow	5.60E-03	25.0	0.02
	Bone	5.60E-03	25.0	0.02
	Remainder	5.67E-03	25.0	0.02
	CEDE	5.63E-03		
	TEDE	4.15E+00	100.0	4.15

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 01/01/06 TO 12/31/06

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

Total Effective Dose Equivalent, mrem/yr 4.08E+00

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

% of limit 4.08

Compliance Summary - 10CFR20

	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	% of Limit
TEDE	1.07E+00	1.08E+00	1.09E+00	8.47E-01	4.08

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 01/01/06 TO 12/31/06

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

		Dose (mrem)	Limit (mrem)	% of Limit
Whole Body (DDE)	Plume	3.34E-04		
	Skyshine	4.08E+00		
	Ground	7.87E-04		
	Total	4.08E+00	25.0	16.31
Organ Dose (CDE)	Thyroid	5.17E-03	75.0	0.01
	Gonads	5.02E-03	25.0	0.02
	Breast	4.99E-03	25.0	0.02
	Lung	5.00E-03	25.0	0.02
	Marrow	5.01E-03	25.0	0.02
	Bone	5.00E-03	25.0	0.02
	Remainder	5.08E-03	25.0	0.02
	CEDE	5.03E-03		
TEDE	4.08E+00	100.0	4.08	

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

2006

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)	1.383E-06 (ESE)	1.103E-06 (ESE)	5.750E-07 (NNE)	2.264E-04 (SSE)	2.288E-04 (SSE)
SKIN (mrem)	1.624E-06 (ESE)	1.297E-06 (ESE)	6.760E-07 (NNE)	2.645E-04 (SSE)	2.673E-04 (SSE)
ORGAN (mrem)	8.250E-08 (SSE)	1.219E-07 (SSE)	9.594E-08 (N)	7.750E-06 (N)	7.750E-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		10 CFR 50 APP. I	
	QUARTERLY OBJECTIVE	% OF 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

2006

TYPE OF DOSE	FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER	ANNUAL
GAMMA AIR (mrad)	9.500E-05 (SSE)	1.100E-04 (SSW)	2.910E-03 (NNW)	8.503E-03 (NNW)	1.158E-02 (NNW)
BETA AIR (mrad)	1.360E-05 (ESE)	1.550E-05 (SW)	3.200E-04 (WSW)	9.255E-04 (N)	1.190E-03 (N)
WHOLE BODY (mrem)	9.029E-05 (SSE)	7.856E-05 (SSE)	1.272E-03 (NNE)	3.255E-03 (SSE)	4.636E-03 (SSE)
SKIN (mrem)	1.120E-04 (SSE)	9.715E-05 (SSE)	1.552E-03 (NNE)	3.965E-03 (NNW)	5.525E-03 (SSE)
ORGAN (mrem)	5.023E-05 (SSE)	2.099E-05 (NNW)	3.830E-05 (N)	2.369E-05 (NNW)	1.075E-04 (NNW)
CRITICAL PERSON	Teenager	Teenager	Teenager	Teenager	Teenager
CRITICAL ORGAN	Lung	Lung	Lung	Lung	Lung

COMPLIANCE STATUS

TYPE OF DOSE	10 CFR 50 APP. I		10 CFR 50 APP. I	
	QUARTERLY OBJECTIVE	% OF APP. I	YEARLY OBJECTIVE	% OF APP. I
GAMMA AIR (mrad)	5.0	0.17	10.0	0.12
BETA AIR (mrad)	10.0	0.01	20.0	0.01
WHOLE BODY (mrem)	2.5	0.13	5.0	0.09
SKIN (mrem)	7.5	0.05	15.0	0.04
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

2006

TYPE OF DOSE	FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER	ANNUAL
GAMMA AIR (mrad)	1.890E-04 (SSE)	2.020E-04 (SSW)	2.530E-04 (NNW)	2.800E-04 (NNW)	8.580E-04 (NNW)
BETA AIR (mrad)	2.790E-05 (ESE)	2.930E-05 (SW)	3.270E-05 (WSW)	2.480E-05 (N)	8.560E-05 (N)
WHOLE BODY (mrem)	1.517E-04 (SSE)	1.222E-04 (SSE)	1.552E-04 (NNE)	3.408E-04 (N)	7.041E-04 (SSE)
SKIN (mrem)	1.887E-04 (SSE)	1.533E-04 (SSE)	1.906E-04 (NNE)	4.156E-04 (N)	8.527E-04 (SSE)
ORGAN (mrem)	5.264E-05 (SSE)	1.768E-05 (SSE)	3.417E-05 (N)	4.043E-05 (NNW)	1.176E-04 (NNW)
CRITICAL PERSON	Teenager	Teenager	Teenager	Teenager	Teenager
CRITICAL ORGAN	Lung	Thyroid	Lung	Lung	Lung

COMPLIANCE STATUS

TYPE OF DOSE	10 CFR 50 APP. I		10 CFR 50 APP. I	
	QUARTERLY OBJECTIVE	% OF 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 3 - Ground
 Unit 3 - Vent
 Unit 3 - Chimney

Data Recovery 99.7%
 (priority parameters)

APPENDIX G

METEOROLOGICAL DATA

Dresden Nuclear Station

Period of Record: January - March 2006
 Stability Class - Extremely Unstable - 150Ft-35Ft Delta-T (F)
 Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	12	17	1	0	0	30
NNE	0	10	7	3	0	0	20
NE	0	7	2	1	0	0	10
ENE	0	2	10	0	0	0	12
E	0	1	4	4	0	0	9
ESE	0	1	1	3	0	0	5
SE	0	0	0	2	0	0	2
SSE	0	0	0	13	2	0	15
S	0	0	5	3	0	0	8
SSW	0	0	1	4	2	1	8
SW	0	0	0	5	3	2	10
WSW	0	3	15	3	1	0	22
W	0	4	3	4	1	0	12
WNW	0	5	18	6	3	0	32
NW	0	3	20	2	0	0	25
NNW	0	13	17	3	0	0	33
Variable	0	0	0	0	0	0	0
Total	0	61	120	57	12	3	253

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 2006
 Stability Class - Moderately Unstable - 150Ft-35Ft Delta-T (F)
 Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	3	2	0	0	0	5
NNE	0	2	2	0	0	0	4
NE	0	4	0	1	0	0	5
ENE	0	0	2	0	0	0	2
E	0	2	0	0	0	0	2
ESE	0	0	0	1	0	0	1
SE	0	0	2	0	0	0	2
SSE	0	0	3	4	1	0	8
S	0	0	3	2	0	0	5
SSW	0	0	0	2	0	0	2
SW	0	0	0	2	0	0	2
WSW	0	3	2	0	2	1	8
W	0	2	0	0	0	0	2
WNW	0	1	1	0	0	0	2
NW	0	5	2	0	0	0	7
NNW	0	2	1	0	0	0	3
Variable	0	0	0	0	0	0	0
Total	0	24	20	12	3	1	60

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 2006
 Stability Class - Slightly Unstable - 150Ft-35Ft Delta-T (F)
 Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	4	1	0	0	0	5
NNE	0	1	1	0	0	0	2
NE	0	1	1	0	0	0	2
ENE	0	1	2	0	0	0	3
E	0	0	1	1	0	0	2
ESE	0	0	0	1	0	0	1
SE	0	1	0	3	0	0	4
SSE	0	1	2	3	1	0	7
S	0	1	4	3	0	0	8
SSW	0	0	1	1	0	0	2
SW	0	0	0	0	0	0	0
WSW	0	6	5	0	2	0	13
W	0	2	2	0	0	0	4
WNW	0	2	3	2	0	0	7
NW	0	0	0	0	0	0	0
NNW	0	0	2	0	0	0	2
Variable	0	0	0	0	0	0	0
Total	0	20	25	14	3	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: January - March 2006
 Stability Class - Neutral - 150Ft-35Ft Delta-T (F)
 Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	4	26	10	0	0	0	40
NNE	1	20	12	0	0	0	33
NE	3	14	31	9	0	0	57
ENE	2	9	15	0	0	0	26
E	3	21	24	0	0	0	48
ESE	3	19	23	7	0	0	52
SE	1	7	13	6	0	0	27
SSE	0	1	15	11	4	0	31
S	1	5	12	15	3	0	36
SSW	1	3	10	14	1	0	29
SW	4	3	9	9	0	0	25
WSW	1	11	13	10	2	0	37
W	2	21	37	20	12	0	92
WNW	2	26	64	12	0	0	104
NW	4	22	50	11	0	0	87
NNW	1	20	42	5	0	0	68
Variable	0	0	0	0	0	0	0
Total	33	228	380	129	22	0	792

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 2006
 Stability Class - Slightly Stable - 150Ft-35Ft Delta-T (F)
 Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	10	23	6	0	0	0	39
NNE	14	15	3	0	0	0	32
NE	7	8	6	0	0	0	21
ENE	7	17	0	0	0	0	24
E	3	27	22	1	0	0	53
ESE	6	21	16	4	0	0	47
SE	0	10	24	4	0	0	38
SSE	2	27	36	16	1	0	82
S	7	19	41	7	1	0	75
SSW	5	15	19	8	1	0	48
SW	4	12	16	4	0	0	36
WSW	2	3	3	3	0	0	11
W	12	31	7	1	1	0	52
WNW	15	40	14	4	0	0	73
NW	22	46	11	1	0	0	80
NNW	14	30	17	12	0	0	73
Variable	0	0	0	0	0	0	0
Total	130	344	241	65	4	0	784

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 2006
 Stability Class - Moderately Stable - 150Ft-35Ft Delta-T (F)
 Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	3	0	0	0	0	0	3
NNE	2	0	0	0	0	0	2
NE	0	0	0	0	0	0	0
ENE	1	0	0	0	0	0	1
E	0	1	0	0	0	0	1
ESE	6	4	0	0	0	0	10
SE	2	0	0	0	0	0	2
SSE	1	1	0	0	0	0	2
S	6	0	0	0	0	0	6
SSW	7	9	2	0	0	0	18
SW	7	18	1	0	0	0	26
WSW	6	9	1	0	0	0	16
W	7	2	0	0	0	0	9
WNW	4	3	0	0	0	0	7
NW	7	1	0	0	0	0	8
NNW	4	7	0	0	0	0	11
Variable	0	0	0	0	0	0	0
Total	63	55	4	0	0	0	122

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 2006
 Stability Class - Extremely Stable - 150Ft-35Ft Delta-T (F)
 Winds Measured at 35 Feet

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

Dresden Nuclear Station

Period of Record: January - March 2006
 Stability Class - Extremely Unstable - 300Ft-35Ft Delta-T (F)
 Winds Measured at 300 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	4	4	0	0	8
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	1	0	0	0	1
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	2	1	3
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	0	1	1	3	5
WSW	0	0	1	1	0	0	2
W	0	0	0	0	1	1	2
WNW	0	0	1	3	2	3	9
NW	0	0	1	5	0	0	6
NNW	0	0	1	3	0	0	4
Variable	0	0	0	0	0	0	0
Total	0	0	9	17	6	8	40

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: 4

Dresden Nuclear Station

Period of Record: January - March 2006
 Stability Class - Moderately Unstable - 300Ft-35Ft Delta-T (F)
 Winds Measured at 300 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	2	1	1	1	0	5
NNE	0	1	3	3	1	0	8
NE	0	0	0	0	0	0	0
ENE	0	1	1	1	0	0	3
E	0	0	0	1	0	0	1
ESE	0	0	1	1	0	0	2
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	2	1	3
S	0	0	1	1	0	0	2
SSW	0	0	0	0	1	1	2
SW	0	0	0	1	0	1	2
WSW	0	0	3	1	1	0	5
W	0	0	1	0	0	1	2
WNW	0	0	4	4	3	0	11
NW	0	1	1	5	2	0	9
NNW	0	0	7	3	2	0	12
Variable	0	0	0	0	0	0	0
Total	0	5	23	22	13	4	67

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: 4

Dresden Nuclear Station

Period of Record: January - March 2006
 Stability Class - Slightly Unstable - 300Ft-35Ft Delta-T (F)
 Winds Measured at 300 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	2	5	6	1	0	14
NNE	0	3	4	0	3	0	10
NE	0	1	0	0	0	0	1
ENE	0	0	5	3	1	0	9
E	0	1	1	1	1	0	4
ESE	0	0	0	2	0	0	2
SE	0	1	0	3	1	0	5
SSE	0	0	0	4	3	1	8
S	0	0	3	1	4	0	8
SSW	0	0	0	2	3	2	7
SW	0	0	0	0	2	1	3
WSW	0	1	7	2	1	0	11
W	0	0	3	2	2	0	7
WNW	0	0	4	5	2	1	12
NW	0	0	2	6	0	0	8
NNW	0	0	3	4	0	1	8
Variable	0	0	0	0	0	0	0
Total	0	9	37	41	24	6	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: 4

Dresden Nuclear Station

Period of Record: January - March 2006
 Stability Class - Neutral - 300Ft-35Ft Delta-T (F)
 Winds Measured at 300 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	5	25	30	6	0	67
NNE	0	5	24	25	6	0	60
NE	0	8	17	30	14	0	69
ENE	1	2	30	20	6	0	59
E	0	8	22	24	10	0	64
ESE	0	5	9	14	18	1	47
SE	0	2	19	11	15	0	47
SSE	0	1	11	23	16	6	57
S	0	2	12	21	26	5	66
SSW	1	4	5	9	12	3	34
SW	1	3	4	8	20	2	38
WSW	0	7	23	10	8	13	61
W	1	7	22	25	23	24	102
WNW	1	3	29	55	40	13	141
NW	1	4	25	53	30	4	117
NNW	1	9	20	43	29	14	116
Variable	0	0	0	0	0	0	0
Total	8	75	297	401	279	85	1145

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 22
 Hours of missing stability measurements in all stability classes: 4

Dresden Nuclear Station

Period of Record: January - March 2006
 Stability Class - Slightly Stable - 300Ft-35Ft Delta-T (F)
 Winds Measured at 300 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	4	9	12	6	0	31
NNE	0	3	25	11	1	0	40
NE	1	8	4	2	0	0	15
ENE	1	7	6	0	0	0	14
E	1	2	8	16	2	0	29
ESE	2	1	7	14	10	0	34
SE	2	8	13	27	4	0	54
SSE	3	6	8	18	16	8	59
S	0	3	3	38	18	5	67
SSW	0	2	4	26	18	6	56
SW	1	1	5	27	8	1	43
WSW	0	3	7	4	5	2	21
W	0	1	11	19	1	0	32
WNW	3	2	8	19	5	0	37
NW	2	1	19	32	4	0	58
NNW	1	2	18	14	4	0	39
Variable	0	0	0	0	0	0	0
Total	17	54	155	279	102	22	629

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: 4

Dresden Nuclear Station

Period of Record: January - March 2006
 Stability Class - Moderately Stable - 300Ft-35Ft Delta-T (F)
 Winds Measured at 300 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	0	4	6	0	0	11
NNE	0	2	4	4	0	0	10
NE	0	0	2	0	0	0	2
ENE	0	3	1	0	0	0	4
E	0	0	1	0	0	0	1
ESE	1	0	0	1	0	0	2
SE	1	1	0	2	0	0	4
SSE	0	2	5	2	0	0	9
S	0	0	0	1	0	0	1
SSW	0	0	1	1	0	0	2
SW	2	2	0	2	1	0	7
WSW	0	0	4	13	0	0	17
W	0	1	2	13	0	0	16
WNW	0	6	4	1	1	0	12
NW	0	2	5	5	0	0	12
NNW	0	1	2	3	0	0	6
Variable	0	0	0	0	0	0	0
Total	5	20	35	54	2	0	116

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: 4

Dresden Nuclear Station

Period of Record: January - March 2006
 Stability Class - Extremely Stable - 300Ft-35Ft Delta-T (F)
 Winds Measured at 300 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	1	0	0	1
NNE	0	0	0	3	0	0	3
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	2	1	0	0	3
S	0	0	0	0	0	0	0
SSW	0	0	0	1	1	0	2
SW	0	0	1	0	0	0	1
WSW	0	1	0	1	0	0	2
W	0	0	0	0	0	0	0
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	1	3	7	1	0	12

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: 4

Dresden Nuclear Station

Period of Record: April - June 2006
 Stability Class - Extremely Unstable - 150Ft-35Ft Delta-T (F)
 Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	4	30	2	0	0	0	36
NNE	3	26	9	2	0	0	40
NE	3	47	16	3	0	0	69
ENE	0	26	7	0	0	0	33
E	0	6	10	2	0	0	18
ESE	0	0	5	8	0	0	13
SE	0	6	7	5	0	0	18
SSE	0	13	1	4	0	0	18
S	1	4	19	9	2	0	35
SSW	1	3	17	8	0	0	29
SW	1	3	8	2	0	0	14
WSW	1	7	16	2	0	0	26
W	0	8	6	8	0	0	22
WNW	1	10	31	15	0	0	57
NW	1	17	18	4	0	0	40
NNW	1	29	7	0	0	0	37
Variable	0	0	0	0	0	0	0
Total	17	235	179	72	2	0	505

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 2006
 Stability Class - Moderately Unstable - 150Ft-35Ft Delta-T (F)
 Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	4	0	0	0	0	0	4
NNE	2	0	1	0	0	0	3
NE	2	8	2	0	0	0	12
ENE	0	2	2	0	0	0	4
E	0	5	1	0	0	0	6
ESE	1	1	5	0	0	0	7
SE	0	1	1	1	0	0	3
SSE	1	6	1	2	0	0	10
S	3	2	0	5	0	0	10
SSW	1	1	3	0	0	0	5
SW	0	1	2	0	0	0	3
WSW	1	2	0	0	0	0	3
W	1	1	4	0	0	0	6
WNW	0	4	5	1	0	0	10
NW	0	1	4	0	0	0	5
NNW	2	1	2	0	0	0	5
Variable	0	0	0	0	0	0	0
Total	18	36	33	9	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: April - June 2006
 Stability Class - Slightly Unstable - 150Ft-35Ft Delta-T (F)
 Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	2	0	0	0	0	0	2
NNE	0	2	0	0	0	0	2
NE	1	7	1	0	0	0	9
ENE	0	4	2	0	0	0	6
E	1	0	1	0	0	0	2
ESE	0	1	1	0	0	0	2
SE	0	0	3	0	0	0	3
SSE	0	1	2	2	0	0	5
S	1	3	3	0	0	0	7
SSW	0	1	5	1	0	0	7
SW	0	0	0	1	0	0	1
WSW	0	5	2	2	0	0	9
W	0	2	1	0	0	0	3
WNW	0	6	0	1	0	0	7
NW	1	3	2	2	0	0	8
NNW	4	1	0	0	0	0	5
Variable	0	0	0	0	0	0	0
Total	10	36	23	9	0	0	78

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 2006
 Stability Class - Neutral - 150Ft-35Ft Delta-T (F)
 Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	2	8	1	0	0	0	11
NNE	3	14	14	7	0	0	38
NE	7	50	30	4	0	0	91
ENE	3	27	8	1	0	0	39
E	3	14	22	16	0	0	55
ESE	2	4	19	24	9	0	58
SE	0	7	12	12	9	2	42
SSE	3	8	22	12	2	0	47
S	3	6	18	13	6	0	46
SSW	2	3	14	3	0	0	22
SW	5	4	10	4	0	0	23
WSW	6	14	6	0	0	0	26
W	2	25	13	7	0	0	47
WNW	6	16	24	10	0	0	56
NW	4	10	11	8	0	0	33
NNW	9	10	0	0	1	0	20
Variable	0	0	0	0	0	0	0
Total	60	220	224	121	27	2	654

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 2006
 Stability Class - Slightly Stable - 150Ft-35Ft Delta-T (F)
 Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	24	4	0	0	0	0	28
NNE	20	7	0	1	0	0	28
NE	14	21	2	0	0	0	37
ENE	3	21	1	0	0	0	25
E	7	21	11	0	0	0	39
ESE	3	9	10	1	0	0	23
SE	4	11	10	3	0	0	28
SSE	1	31	20	2	0	0	54
S	10	28	23	3	1	0	65
SSW	8	16	3	7	0	0	34
SW	10	13	3	2	0	0	28
WSW	4	6	1	0	0	0	11
W	9	25	0	0	0	0	34
WNW	10	21	9	0	0	0	40
NW	19	20	6	0	0	0	45
NNW	15	14	0	0	0	0	29
Variable	0	0	0	0	0	0	0
Total	161	268	99	19	1	0	548

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 2006
 Stability Class - Moderately Stable - 150Ft-35Ft Delta-T (F)
 Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	8	2	0	0	0	0	10
NNE	7	1	0	0	0	0	8
NE	2	1	0	0	0	0	3
ENE	0	0	0	0	0	0	0
E	1	2	0	0	0	0	3
ESE	1	1	0	0	0	0	2
SE	3	8	4	0	0	0	15
SSE	4	6	1	0	0	0	11
S	5	10	0	0	0	0	15
SSW	10	5	0	0	0	0	15
SW	9	14	0	0	0	0	23
WSW	11	9	0	0	0	0	20
W	8	7	0	0	0	0	15
WNW	7	2	0	0	0	0	9
NW	27	5	0	0	0	0	32
NNW	23	2	0	0	0	0	25
Variable	0	0	0	0	0	0	0
Total	126	75	5	0	0	0	206

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 2006
 Stability Class - Extremely Stable - 150Ft-35Ft Delta-T (F)
 Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	6	0	0	0	0	0	6
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	1	0	0	0	0	0	1
E	0	0	0	0	0	0	0
ESE	1	0	0	0	0	0	1
SE	1	0	0	0	0	0	1
SSE	0	0	0	0	0	0	0
S	0	1	0	0	0	0	1
SSW	5	2	0	0	0	0	7
SW	2	5	0	0	0	0	7
WSW	6	3	0	0	0	0	9
W	4	2	0	0	0	0	6
WNW	5	0	0	0	0	0	5
NW	7	1	0	0	0	0	8
NNW	9	0	0	0	0	0	9
Variable	0	0	0	0	0	0	0
Total	47	14	0	0	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: April - June 2006
 Stability Class - Extremely Unstable - 300Ft-35Ft Delta-T (F)
 Winds Measured at 300 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	4	3	0	0	7
NNE	0	2	3	4	1	0	10
NE	0	1	2	1	1	0	5
ENE	0	0	1	0	0	0	1
E	0	0	1	0	0	0	1
ESE	0	0	0	1	0	0	1
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	1	0	0	1
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	1	0	1
W	0	0	0	0	0	0	0
WNW	0	0	0	1	6	3	10
NW	0	0	3	1	0	0	4
NNW	0	0	1	2	0	0	3
Variable	0	0	0	0	0	0	0
Total	0	3	15	14	9	3	44

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 2006
 Stability Class - Moderately Unstable - 300Ft-35Ft Delta-T (F)
 Winds Measured at 300 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	2	4	3	0	0	9
NNE	0	2	9	3	1	2	17
NE	0	3	6	5	1	0	15
ENE	0	2	2	0	0	0	4
E	0	0	3	0	0	0	3
ESE	0	0	0	2	3	0	5
SE	0	0	0	2	0	0	2
SSE	0	0	0	0	0	0	0
S	0	0	0	1	2	0	3
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	2	1	0	0	3
W	0	1	0	0	2	0	3
WNW	0	0	1	10	5	0	16
NW	0	0	2	4	1	2	9
NNW	0	2	0	3	0	0	5
Variable	0	0	0	0	0	0	0
Total	0	12	29	34	15	4	94

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

Dresden Nuclear Station

Period of Record: April - June 2006

Stability Class - Slightly Unstable - 300Ft-35Ft Delta-T (F)
Winds Measured at 300 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	4	7	1	0	0	12
NNE	0	4	4	3	1	0	12
NE	0	4	7	5	0	0	16
ENE	0	2	8	1	0	0	11
E	0	1	4	2	0	0	7
ESE	0	0	0	3	1	1	5
SE	0	2	4	0	0	0	6
SSE	0	3	0	2	0	0	5
S	1	0	1	3	2	2	9
SSW	0	1	1	5	1	0	8
SW	0	0	0	1	1	0	2
WSW	0	0	4	2	3	0	9
W	0	0	0	3	3	0	6
WNW	0	0	3	7	1	0	11
NW	0	0	3	6	2	0	11
NNW	0	3	4	5	1	0	13
Variable	0	0	0	0	0	0	0
Total	1	24	50	49	16	3	143

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 2006
 Stability Class - Neutral - 300Ft-35Ft Delta-T (F)
 Winds Measured at 300 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	11	9	5	1	0	26
NNE	2	10	16	22	10	8	68
NE	1	12	39	44	11	4	111
ENE	0	18	34	9	2	1	64
E	2	9	27	10	6	7	61
ESE	0	4	3	15	24	13	59
SE	2	3	8	20	10	13	56
SSE	0	12	12	20	11	4	59
S	3	6	17	27	14	7	74
SSW	4	5	12	27	5	0	53
SW	2	6	2	14	9	2	35
WSW	3	6	20	11	2	1	43
W	0	8	23	13	5	5	54
WNW	1	11	21	23	27	10	93
NW	6	10	13	21	9	7	66
NNW	0	16	8	8	3	2	37
Variable	0	0	0	0	0	0	0
Total	26	147	264	289	149	84	959

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

Dresden Nuclear Station

Period of Record: April - June 2006
 Stability Class - Slightly Stable - 300Ft-35Ft Delta-T (F)
 Winds Measured at 300 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	2	6	9	4	0	0	21
NNE	1	8	24	8	1	0	42
NE	2	11	21	10	1	0	45
ENE	0	11	14	0	0	0	25
E	3	2	19	10	7	2	43
ESE	0	5	7	14	8	2	36
SE	1	3	7	12	5	1	29
SSE	1	3	12	21	9	1	47
S	2	4	11	40	34	10	101
SSW	2	5	7	20	4	8	46
SW	0	2	12	8	4	2	28
WSW	3	6	9	8	1	0	27
W	1	4	14	20	0	0	39
WNW	0	4	14	20	8	0	46
NW	0	0	12	26	5	0	43
NNW	0	4	14	17	0	0	35
Variable	0	0	0	0	0	0	0
Total	18	78	206	238	87	26	653

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: 0

Dresden Nuclear Station

Period of Record: April - June 2006

Stability Class - Moderately Stable - 300Ft-35Ft Delta-T (F)
 Winds Measured at 300 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	3	7	6	0	0	17
NNE	2	4	7	8	2	0	23
NE	1	2	1	1	0	0	5
ENE	0	2	2	0	0	0	4
E	0	1	1	1	0	0	3
ESE	2	1	4	1	0	0	8
SE	0	5	6	11	1	0	23
SSE	1	2	6	8	1	0	18
S	0	1	2	8	4	0	15
SSW	0	0	0	4	1	0	5
SW	2	1	2	15	2	0	22
WSW	2	1	6	9	0	0	18
W	1	4	5	6	0	0	16
WNW	1	1	5	4	3	0	14
NW	1	2	7	10	0	0	20
NNW	2	4	11	14	0	0	31
Variable	0	0	0	0	0	0	0
Total	16	34	72	106	14	0	242

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

Dresden Nuclear Station

Period of Record: April - June 2006
 Stability Class - Extremely Stable - 300Ft-35Ft Delta-T (F)
 Winds Measured at 300 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	3	1	0	0	4
NNE	0	1	1	1	0	0	3
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	0	1	0	0	0	1
SSW	0	1	0	2	0	0	3
SW	1	0	1	1	0	0	3
WSW	1	0	2	3	0	0	6
W	1	0	2	0	0	0	3
WNW	1	2	0	3	0	0	6
NW	0	2	0	3	0	0	5
NNW	0	0	2	2	1	0	5
Variable	0	0	0	0	0	0	0
Total	4	6	12	16	1	0	39

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 2006
 Stability Class - Extremely Unstable - 150Ft-35Ft Delta-T (F)
 Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	9	3	0	0	0	12
NNE	0	12	0	0	0	0	12
NE	0	26	18	0	0	0	44
ENE	0	17	5	0	0	0	22
E	0	7	1	0	0	0	8
ESE	0	1	0	0	0	0	1
SE	0	0	0	0	0	0	0
SSE	0	3	1	1	0	0	5
S	0	2	0	1	0	0	3
SSW	0	0	6	2	0	0	8
SW	0	0	9	6	0	0	15
WSW	0	1	7	0	0	0	8
W	0	0	2	0	0	0	2
WNW	0	4	5	0	0	0	9
NW	0	6	0	0	0	0	6
NNW	0	13	2	0	0	0	15
Variable	0	0	0	0	0	0	0
Total	0	101	59	10	0	0	170

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 2006
 Stability Class - Moderately Unstable - 150Ft-35Ft Delta-T (F)
 Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	0	0	0	0
NNE	1	0	0	0	0	0	1
NE	0	4	2	0	0	0	6
ENE	0	5	2	0	0	0	7
E	1	3	1	0	0	0	5
ESE	0	1	0	0	0	0	1
SE	0	1	0	0	0	0	1
SSE	2	0	1	1	0	0	4
S	0	0	2	1	0	0	3
SSW	0	1	5	2	0	0	8
SW	0	0	3	4	0	0	7
WSW	0	3	1	0	0	0	4
W	0	2	2	0	0	0	4
WNW	1	5	0	0	0	0	6
NW	0	5	0	0	0	0	5
NNW	0	4	0	0	0	0	4
Variable	0	0	0	0	0	0	0
Total	5	34	19	8	0	0	66

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 2006
 Stability Class - Slightly Unstable - 150Ft-35Ft Delta-T (F)
 Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	3	6	0	0	0	0	9
NNE	0	2	0	0	0	0	2
NE	0	7	2	0	0	0	9
ENE	1	9	1	0	0	0	11
E	0	0	0	0	0	0	0
ESE	0	4	1	0	0	0	5
SE	0	2	0	0	0	0	2
SSE	1	5	2	1	0	0	9
S	0	3	5	1	0	0	9
SSW	0	4	11	2	0	0	17
SW	0	2	5	1	0	0	8
WSW	0	6	4	0	0	0	10
W	0	3	1	0	0	0	4
WNW	0	5	0	0	0	0	5
NW	0	5	1	0	0	0	6
NNW	1	2	0	0	0	0	3
Variable	0	0	0	0	0	0	0
Total	6	65	33	5	0	0	109

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 2006
 Stability Class - Neutral - 150Ft-35Ft Delta-T (F)
 Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	4	3	0	0	0	0	7
NNE	4	13	0	0	0	0	17
NE	2	30	17	0	0	0	49
ENE	6	27	9	0	0	0	42
E	2	32	8	0	0	0	42
ESE	4	11	11	0	0	0	26
SE	2	10	11	3	0	0	26
SSE	3	20	18	8	0	0	49
S	7	38	15	1	0	0	61
SSW	2	20	20	4	0	0	46
SW	3	21	22	8	0	0	54
WSW	1	31	8	1	0	0	41
W	4	29	13	1	0	0	47
WNW	2	24	12	0	0	0	38
NW	5	10	2	0	0	0	17
NNW	10	24	2	0	0	0	36
Variable	0	0	0	0	0	0	0
Total	61	343	168	26	0	0	598

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 2006
 Stability Class - Slightly Stable - 150Ft-35Ft Delta-T (F)
 Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	30	10	2	0	0	0	42
NNE	14	8	0	0	0	0	22
NE	20	76	5	0	0	0	101
ENE	9	44	1	0	0	0	54
E	14	42	3	0	0	0	59
ESE	9	26	7	2	0	0	44
SE	9	20	12	5	0	0	46
SSE	17	58	17	0	0	0	92
S	20	52	24	1	0	0	97
SSW	22	49	23	4	0	0	98
SW	13	37	10	1	0	0	61
WSW	3	18	8	0	0	0	29
W	8	22	8	0	0	0	38
WNW	10	29	6	0	0	0	45
NW	18	15	0	0	0	0	33
NNW	20	19	0	0	0	0	39
Variable	0	0	0	0	0	0	0
Total	236	525	126	13	0	0	900

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 2006
 Stability Class - Moderately Stable - 150Ft-35Ft Delta-T (F)
 Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	8	0	0	0	0	0	8
NNE	12	0	0	0	0	0	12
NE	0	1	0	0	0	0	1
ENE	3	4	0	0	0	0	7
E	8	11	1	0	0	0	20
ESE	7	18	0	0	0	0	25
SE	13	4	2	0	0	0	19
SSE	9	5	0	0	0	0	14
S	7	11	1	0	0	0	19
SSW	8	7	0	0	0	0	15
SW	20	28	0	0	0	0	48
WSW	7	4	0	0	0	0	11
W	14	2	0	0	0	0	16
WNW	12	1	0	0	0	0	13
NW	10	0	0	0	0	0	10
NNW	8	0	0	0	0	0	8
Variable	0	0	0	0	0	0	0
Total	146	96	4	0	0	0	246

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 2006
 Stability Class - Extremely Stable - 150Ft-35Ft Delta-T (F)
 Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	2	0	0	0	0	0	2
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	1	0	0	0	0	1
ESE	4	0	0	0	0	0	4
SE	2	0	0	0	0	0	2
SSE	6	1	0	0	0	0	7
S	9	1	0	0	0	0	10
SSW	8	1	0	0	0	0	9
SW	20	3	0	0	0	0	23
WSW	6	0	0	0	0	0	6
W	6	0	0	0	0	0	6
WNW	6	0	0	0	0	0	6
NW	9	0	0	0	0	0	9
NNW	2	0	0	0	0	0	2
Variable	0	0	0	0	0	0	0
Total	84	7	0	0	0	0	91

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 2006
 Stability Class - Extremely Unstable - 300Ft-35Ft Delta-T (F)
 Winds Measured at 300 Feet

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

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 2006
 Stability Class - Moderately Unstable - 300Ft-35Ft Delta-T (F)
 Winds Measured at 300 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	1	2	0	0	3
NNE	0	0	1	4	0	0	5
NE	0	2	3	9	0	0	14
ENE	0	1	5	1	0	0	7
E	0	0	3	0	0	0	3
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	2	0	0	2
S	0	0	0	0	1	0	1
SSW	0	0	1	1	0	0	2
SW	0	0	0	2	0	0	2
WSW	0	0	0	1	0	0	1
W	0	0	0	0	1	0	1
WNW	0	1	0	0	0	0	1
NW	0	0	0	0	0	0	0
NNW	0	1	3	0	0	0	4
Variable	0	0	0	0	0	0	0
Total	0	5	17	22	2	0	46

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

Dresden Nuclear Station

Period of Record: July - September 2006
 Stability Class - Slightly Unstable - 300Ft-35Ft Delta-T (F)
 Winds Measured at 300 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	0	2	0	0	0	3
NNE	0	2	7	2	0	0	11
NE	0	3	13	6	0	0	22
ENE	0	2	7	0	0	0	9
E	0	1	2	1	0	0	4
ESE	0	0	2	0	0	0	2
SE	0	1	0	0	0	0	1
SSE	0	2	1	2	1	0	6
S	0	0	0	1	0	0	1
SSW	0	0	2	3	0	0	5
SW	0	0	3	5	1	0	9
WSW	0	3	3	2	0	0	8
W	0	0	0	2	0	0	2
WNW	0	0	7	5	0	0	12
NW	0	1	4	0	0	0	5
NNW	0	1	2	1	0	0	4
Variable	0	0	0	0	0	0	0
Total	1	16	55	30	2	0	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: 1

Dresden Nuclear Station

Period of Record: July - September 2006
 Stability Class - Neutral - 300Ft-35Ft Delta-T (F)
 Winds Measured at 300 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	8	16	9	1	1	36
NNE	0	4	17	11	5	0	37
NE	5	11	32	18	4	0	70
ENE	2	32	64	4	0	0	102
E	2	11	35	9	0	0	57
ESE	1	13	10	5	1	0	30
SE	1	6	11	10	6	1	35
SSE	2	24	23	19	7	1	76
S	2	28	28	14	3	1	76
SSW	2	17	28	31	9	0	87
SW	3	14	22	30	11	3	83
WSW	0	22	14	9	1	0	46
W	2	15	17	15	5	0	54
WNW	0	11	27	17	3	0	58
NW	2	13	13	6	2	0	36
NNW	3	19	13	20	0	0	55
Variable	0	0	0	0	0	0	0
Total	28	248	370	227	58	7	938

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 2006
 Stability Class - Slightly Stable - 300Ft-35Ft Delta-T (F)
 Winds Measured at 300 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	3	11	6	0	0	21
NNE	0	2	15	17	3	0	37
NE	1	10	22	19	1	0	53
ENE	1	17	25	1	1	0	45
E	5	5	8	16	0	0	34
ESE	2	15	13	8	3	0	41
SE	1	12	27	25	3	1	69
SSE	1	12	24	19	6	0	62
S	2	9	25	43	9	0	88
SSW	1	6	33	40	18	1	99
SW	1	6	26	34	11	1	79
WSW	0	4	15	18	1	0	38
W	2	5	9	13	2	0	31
WNW	1	6	13	12	3	0	35
NW	0	4	7	9	0	0	20
NNW	0	4	18	13	1	0	36
Variable	0	0	0	0	0	0	0
Total	19	120	291	293	62	3	788

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 2006
 Stability Class - Moderately Stable - 300Ft-35Ft Delta-T (F)
 Winds Measured at 300 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	1	5	2	0	0	8
NNE	1	4	3	5	0	0	13
NE	0	4	2	0	0	0	6
ENE	0	3	2	0	0	0	5
E	2	4	3	5	0	0	14
ESE	0	5	9	10	1	0	25
SE	1	3	8	8	2	0	22
SSE	2	1	10	3	0	0	16
S	2	5	1	5	1	0	14
SSW	1	5	7	7	4	0	24
SW	0	7	3	14	1	0	25
WSW	1	10	17	6	0	0	34
W	0	7	14	6	0	0	27
WNW	0	2	7	7	0	0	16
NW	0	2	3	12	0	0	17
NNW	1	3	1	2	0	0	7
Variable	0	0	0	0	0	0	0
Total	11	66	95	92	9	0	273

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 2006
 Stability Class - Extremely Stable - 300Ft-35Ft Delta-T (F)
 Winds Measured at 300 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	0	0	0	0
NNE	0	0	1	0	0	0	1
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	1	0	0	0	0	1
ESE	0	1	0	0	0	0	1
SE	0	0	0	0	0	0	0
SSE	0	0	1	0	0	0	1
S	0	0	2	1	0	0	3
SSW	0	0	5	4	1	0	10
SW	0	0	4	1	0	0	5
WSW	0	1	2	0	0	0	3
W	0	1	5	3	0	0	9
WNW	0	1	3	2	0	0	6
NW	0	2	2	3	0	0	7
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	7	25	14	1	0	47

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: October - December 2006
 Stability Class - Extremely Unstable - 150Ft-35Ft Delta-T (F)
 Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	5	0	0	0	5
NNE	0	1	0	0	0	0	1
NE	1	3	5	0	0	0	9
ENE	0	1	0	0	0	0	1
E	0	1	2	0	0	0	3
ESE	0	0	0	0	0	0	0
SE	0	1	0	0	0	0	1
SSE	0	4	2	0	0	0	6
S	0	0	8	13	1	0	22
SSW	0	1	13	1	0	0	15
SW	0	0	3	0	0	0	3
WSW	0	0	1	0	4	0	5
W	0	0	3	5	0	0	8
WNW	0	3	3	2	0	0	8
NW	0	3	3	5	0	0	11
NNW	0	8	2	0	0	0	10
Variable	0	0	0	0	0	0	0
Total	1	26	50	26	5	0	108

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 - December 2006
 Stability Class - Moderately Unstable - 150Ft-35Ft Delta-T (F)
 Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	1	1	0	0	0	2
ENE	0	0	0	0	0	0	0
E	0	0	1	0	0	0	1
ESE	0	0	0	0	0	0	0
SE	0	1	1	0	0	0	2
SSE	0	1	4	1	0	0	6
S	0	0	8	7	0	0	15
SSW	0	3	1	0	0	0	4
SW	0	1	1	0	0	0	2
WSW	0	0	3	0	1	0	4
W	0	0	2	1	0	0	3
WNW	0	0	3	5	1	0	9
NW	0	2	2	0	0	0	4
NNW	0	1	0	0	0	0	1
Variable	0	0	0	0	0	0	0
Total	0	10	27	14	2	0	53

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 - December 2006
 Stability Class - Slightly Unstable - 150Ft-35Ft Delta-T (F)
 Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	2	1	3	0	0	6
NNE	0	1	0	0	0	0	1
NE	1	2	0	0	0	0	3
ENE	0	0	0	0	0	0	0
E	0	2	0	0	0	0	2
ESE	0	0	0	0	0	0	0
SE	0	2	1	0	0	0	3
SSE	0	0	6	1	0	0	7
S	0	2	5	5	0	0	12
SSW	0	0	3	1	0	0	4
SW	0	1	0	3	0	0	4
WSW	1	2	3	1	1	0	8
W	0	2	4	3	0	0	9
WNW	0	1	5	1	0	0	7
NW	0	3	3	1	0	0	7
NNW	1	2	2	1	0	0	6
Variable	0	0	0	0	0	0	0
Total	3	22	33	20	1	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 - December 2006
 Stability Class - Neutral - 150Ft-35Ft Delta-T (F)
 Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	2	9	18	9	0	0	38
NNE	4	5	16	12	0	0	37
NE	3	18	17	6	0	0	44
ENE	1	14	4	0	0	0	19
E	2	19	30	2	0	0	53
ESE	2	8	23	4	2	0	39
SE	3	16	8	4	0	0	31
SSE	0	18	44	6	0	0	68
S	0	22	46	20	1	0	89
SSW	0	10	23	17	0	0	50
SW	4	10	9	12	0	0	35
WSW	2	11	6	9	0	0	28
W	2	17	59	19	1	0	98
WNW	1	10	34	8	0	0	53
NW	7	16	24	6	0	0	53
NNW	4	26	53	5	0	0	88
Variable	0	0	0	0	0	0	0
Total	37	229	414	139	4	0	823

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 - December 2006
 Stability Class - Slightly Stable - 150Ft-35Ft Delta-T (F)
 Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	2	4	0	0	0	0	6
NNE	4	14	6	2	0	0	26
NE	9	6	6	2	0	0	23
ENE	8	19	0	0	0	0	27
E	4	20	2	0	0	0	26
ESE	5	24	15	4	0	0	48
SE	9	27	26	3	0	0	65
SSE	7	55	52	8	0	0	122
S	4	44	56	17	1	0	122
SSW	6	33	24	9	3	0	75
SW	1	21	25	9	0	0	56
WSW	5	8	13	4	0	0	30
W	6	38	52	7	0	0	103
WNW	8	35	18	2	0	0	63
NW	12	20	11	0	0	0	43
NNW	5	21	6	1	0	0	33
Variable	0	0	0	0	0	0	0
Total	95	389	312	68	4	0	868

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 - December 2006
 Stability Class - Moderately Stable - 150Ft-35Ft Delta-T (F)
 Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	3	0	0	0	0	0	3
NNE	1	2	0	0	0	0	3
NE	0	0	0	0	0	0	0
ENE	1	0	0	0	0	0	1
E	1	4	0	0	0	0	5
ESE	2	31	2	0	0	0	35
SE	5	10	2	0	0	0	17
SSE	11	16	1	0	0	0	28
S	5	3	3	0	0	0	11
SSW	5	14	1	0	0	0	20
SW	1	16	9	0	0	0	26
WSW	3	5	2	0	0	0	10
W	1	6	0	0	0	0	7
WNW	2	3	0	0	0	0	5
NW	2	1	0	0	0	0	3
NNW	1	1	0	0	0	0	2
Variable	0	0	0	0	0	0	0
Total	44	112	20	0	0	0	176

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 - December 2006
 Stability Class - Extremely Stable - 150Ft-35Ft Delta-T (F)
 Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	1	0	0	0	0	2
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	1	0	0	0	0	0	1
E	0	1	0	0	0	0	1
ESE	1	5	0	0	0	0	6
SE	2	2	0	0	0	0	4
SSE	4	1	1	0	0	0	6
S	2	0	0	0	0	0	2
SSW	4	1	0	0	0	0	5
SW	3	6	0	0	0	0	9
WSW	0	1	0	0	0	0	1
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	25	18	1	0	0	0	44

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 - December 2006
 Stability Class - Extremely Unstable - 300Ft-35Ft Delta-T (F)
 Winds Measured at 300 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
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	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	3	3
W	0	0	0	1	0	0	1
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	0	0	2	0	3	5

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: 5

Dresden Nuclear Station

Period of Record: October - December 2006
 Stability Class - Moderately Unstable - 300Ft-35Ft Delta-T (F)
 Winds Measured at 300 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	1	0	0	1
NNE	0	0	0	1	0	0	1
NE	0	0	0	2	0	0	2
ENE	0	0	0	0	0	0	0
E	0	0	1	2	0	0	3
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	1	0	0	1	2
W	0	0	0	2	1	0	3
WNW	0	0	1	1	0	2	4
NW	0	0	2	1	1	0	4
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	0	5	10	2	3	20

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: 5

Dresden Nuclear Station

Period of Record: October - December 2006
 Stability Class - Slightly Unstable - 300Ft-35Ft Delta-T (F)
 Winds Measured at 300 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	2	0	0	2
NNE	0	2	0	0	0	0	2
NE	0	1	1	1	0	0	3
ENE	0	3	0	0	0	0	3
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	1	1	0	0	0	2
SSE	0	0	2	0	0	0	2
S	0	0	2	4	1	0	7
SSW	0	0	0	1	0	0	1
SW	0	0	1	0	0	0	1
WSW	0	0	3	0	0	1	4
W	0	0	2	1	3	2	8
WNW	0	0	3	1	1	5	10
NW	0	0	1	1	0	1	3
NNW	0	0	4	0	0	0	4
Variable	0	0	0	0	0	0	0
Total	0	7	20	11	5	9	52

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 5

Dresden Nuclear Station

Period of Record: October - December 2006
 Stability Class - Neutral - 300Ft-35Ft Delta-T (F)
 Winds Measured at 300 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	5	12	28	10	9	65
NNE	3	5	6	15	13	18	60
NE	0	4	7	18	10	1	40
ENE	2	7	18	4	0	0	31
E	1	2	11	23	6	1	44
ESE	0	4	7	19	5	4	39
SE	0	8	11	6	6	1	32
SSE	2	9	25	49	5	0	90
S	0	9	39	48	31	10	137
SSW	2	13	37	25	17	5	99
SW	0	7	15	8	13	4	47
WSW	1	9	9	7	4	8	38
W	0	7	19	45	38	4	113
WNW	1	2	16	33	24	6	82
NW	2	7	21	25	17	3	75
NNW	0	12	31	38	28	1	110
Variable	0	0	0	0	0	0	0
Total	15	110	284	391	227	75	1102

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 15
 Hours of missing stability measurements in all stability classes: 5

Dresden Nuclear Station

Period of Record: October - December 2006
 Stability Class - Slightly Stable - 300Ft-35Ft Delta-T (F)
 Winds Measured at 300 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	2	0	2	3	2	0	9
NNE	1	1	1	8	2	0	13
NE	0	3	2	2	0	0	7
ENE	1	7	14	0	0	0	22
E	2	1	4	2	1	0	10
ESE	3	3	10	12	3	0	31
SE	0	5	13	32	1	0	51
SSE	4	7	22	45	13	3	94
S	1	5	19	54	48	11	138
SSW	2	2	15	59	22	4	104
SW	1	0	15	14	19	3	52
WSW	1	4	20	19	14	4	62
W	0	6	15	36	23	0	80
WNW	0	3	4	27	11	0	45
NW	1	3	12	25	3	0	44
NNW	1	0	10	12	2	0	25
Variable	0	0	0	0	0	0	0
Total	20	50	178	350	164	25	787

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 4
 Hours of missing stability measurements in all stability classes: 5

Dresden Nuclear Station

Period of Record: October - December 2006
 Stability Class - Moderately Stable - 300Ft-35Ft Delta-T (F)
 Winds Measured at 300 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	2	0	0	2
NNE	0	0	0	4	0	0	4
NE	0	1	0	0	0	0	1
ENE	0	0	0	0	0	0	0
E	0	2	1	1	0	0	4
ESE	0	1	0	1	0	0	2
SE	0	4	6	12	1	0	23
SSE	0	0	11	25	0	0	36
S	2	2	2	8	5	0	19
SSW	2	3	2	8	1	0	16
SW	0	1	5	8	6	0	20
WSW	1	3	3	2	0	0	9
W	0	3	16	6	0	0	25
WNW	0	0	2	4	0	0	6
NW	0	0	4	3	0	0	7
NNW	1	0	1	4	0	0	6
Variable	0	0	0	0	0	0	0
Total	6	20	53	88	13	0	180

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: 5

Dresden Nuclear Station

Period of Record: October - December 2006
 Stability Class - Extremely Stable - 300Ft-35Ft Delta-T (F)
 Winds Measured at 300 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
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	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	2	2	0	4
S	0	2	1	2	0	0	5
SSW	0	1	0	0	0	0	1
SW	1	2	4	2	0	0	9
WSW	1	2	2	0	0	0	5
W	2	0	6	0	0	0	8
WNW	2	1	0	0	0	0	3
NW	0	0	0	0	0	0	0
NNW	1	1	0	0	0	0	2
Variable	0	0	0	0	0	0	0
Total	8	9	13	6	2	0	38

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: 5

APPENDIX H

ANNUAL RADIOLOGICAL GROUNDWATER PROTECTION PROGRAM REPORT (ARGPPR)