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U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555

LaSalle County Station, Units 1 and 2
Facility Operating License Nos. NPF-11 and NPF-18
NRC Docket Nos. 50-373 and 50-374

Subject: 2005 Annual Radiological Environmental Operating Report

Enclosed is the Exelon Generation Company, LLC, LaSalle County Station 2005 Annual Radiological Environmental Operating Report, submitted in accordance with Technical Specification 5.6.2, "Annual Radiological Environmental Operating Report." This report contains the results of the Radiological Environmental and Meteorological Monitoring Programs.

Should you have any questions concerning this letter, please contact Mr. Terrence Simpkin, Regulatory Assurance Manager, at (815) 415-2800.

Respectfully,



for Susan R. Landahl
Site Vice President
LaSalle County Station

Attachment

cc: Regional Administrator - NRC Region III
NRC Senior Resident Inspector - LaSalle County Station

JE25

Docket No: 50-373
50-374

LASALLE COUNTY STATION UNITS 1 and 2

Annual Radiological
Environmental Operating Report

1 January Through 31 December 2005

Prepared By

Teledyne Brown Engineering
Environmental Services

ExelonSM

Nuclear

LaSalle County Generating Station
Marseilles, IL 61341

May 2006

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I. Summary and Conclusions

This report on the Radiological Environmental Monitoring Program conducted for the LaSalle County Station (LCS) by Exelon covers the period 1 January 2005 through 31 December 2005. During that time period, 1,043 analyses were performed on 957 samples. In assessing all the data gathered for this report and comparing these results with preoperational data, it was concluded that the operation of LCS had no adverse radiological impact on the environment.

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

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

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

High sensitivity I-131 analyses were performed on bi-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 consistent with those detected in previous years. 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.

II. Introduction

The LaSalle County Station (LCS), consisting of two boiling water reactors, each rated for 3489 MWt, owned and operated by Exelon Corporation, is located in LaSalle County, Illinois. Unit No. 1 went critical on 16 March 1982. Unit No. 2 went critical on 02 December 1983. The site is located in northern Illinois, approximately 75 miles southwest of Chicago, Illinois.

A Radiological Environmental Monitoring Program (REMP) for LCS was initiated in 1982. (The preoperational period for most media covers the periods 1 January 1979 through 26 December 1981 and was summarized in a separate report.) This report covers those analyses performed by Teledyne Brown Engineering (TBE), Global Dosimetry, and Environmental Inc. (Midwest Labs) on samples collected during the period 1 January 2005 through 31 December 2005.

A. Objective of the 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 LCS REMP were collected for Exelon Nuclear by

Environmental Inc. (Midwest Labs). This section describes the general collection methods used by Environmental Inc. (Midwest Labs) to obtain environmental samples for the LCS REMP in 2005. Sample locations and descriptions can be found in Tables B-1 and B-2, and Figures B-1 through B-4, Appendix B.

Aquatic Environment

The aquatic environment was evaluated by performing radiological analyses on samples of surface water, ground/well water, fish, and sediment. Two gallon water samples were collected weekly from two surface water locations (L-21 and L-40) and composited for monthly and quarterly required analyses. Control location was L-21. Two ground/well water locations (L-27 and L-28) were also grab sampled quarterly. All samples were collected in new unused plastic bottles, which were rinsed with source water prior to collection. Fish samples comprising the flesh of largemouth bass, smallmouth bass, channel catfish, bluegill, carp, freshwater drum and smallmouth buffalo were collected semiannually at three locations, L-34, L-35 and L-36 (Control). Sediment samples composed of recently deposited substrate were collected at two locations semiannually, L-40 and L-41.

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 and analyzed weekly at nine locations (L-01, L-03, L-04, L-05, L-06, L-07, L-08, L-10 and L-11). The control location was L-10. Airborne iodine and particulate samples were obtained at each location, using a vacuum pump with charcoal and glass fiber filters attached. The pumps were run continuously and sampled air at the rate of approximately one cubic foot per minute. The filters were replaced weekly and sent to the laboratory for analysis. The air iodine samples were replaced biweekly and sent to the lab for analysis.

Milk samples were collected biweekly at one location (L-42) from May through October, and monthly from November through April. The control location was L-42. 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 (L-Quad C, L-Quad 1, L-Quad 2, L-Quad 3, and L-Quad 4). The control

location was L-Quad C. 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 thermoluminescent dosimeters (TLD). Each location consisted of 2 TLD sets. The TLD locations were placed on and around the LCS site as follows:

An inner ring consisting of 16 locations (L-101, L-102, L-103, L-104, L-105, L-106, L-107, L-108, L-109, L-110, L-111B, L-112, L-113A, L-114, L-115 and L-116) near and within the site perimeter representing fence post doses (i.e., at locations where the doses will be potentially greater than maximum annual off-site doses) from LCS release.

An outer ring consisting of 16 locations (L-201, L-202, L-203, L-204, L-205, L-206, L-207, L-208, L-209, L-210, L-211, L-212, L-213, L-214, L-215 and L-216) extending to approximately 5 miles from the site designed to measure possible exposures to close-in population.

An other set consisting of eight locations (L-01, L-03, L-04, L-05, L-06, L-07, L-08 and L-11).

The balance of one location (L-10) representing the control area.

The specific TLD locations were determined by the following criteria:

1. The presence of relatively dense population;
2. Site meteorological data taking into account distance and elevation for each of the sixteen- $22\frac{1}{2}$ degree sectors around the site, where estimated annual dose from LCS, if any, would be most significant;
3. On hills free from local obstructions and within sight of the vents (where practical);
4. And near the closest dwelling to the vents in the prevailing downwind direction.

(Two TLDs – each comprised of two CaF_2 thermoluminescent phosphors enclosed in plastic – were placed at each location in a PVC conduit located approximately six feet above ground level. 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 Environmental Inc (Midwest Labs) to analyze the environmental samples for radioactivity for the LCS REMP in 2005. The analytical procedures used by the laboratories are listed in Table B-2.

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

1. Concentrations of beta emitters in surface water and air particulates.
2. Concentrations of gamma emitters in ground/well and surface water, air particulates, milk, fish, sediment and vegetation.
3. Concentrations of tritium in ground/well and surface water.
4. Concentrations of I-131 in air and milk.
5. Ambient gamma radiation levels at various site environs.

C. Data Interpretation

The radiological and direct radiation data collected prior to LaSalle County Station becoming operational were used as a baseline with which these operational data were compared. For the purpose of this report, LaSalle County 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 LCS detection capabilities for environmental sample analysis.

The minimum detectable concentration (MDC) is defined above

with the exception that the measurement is an after the fact estimate of the presence of activity.

2. Net Activity Calculation and Reporting of Results

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

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

For 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 ground/well water 11 nuclides, Mn-54, Co-58, Fe-59, Co-60, Zn-65, Zr-95, Nb-95, 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, 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 food products 10 nuclides, Mn-54, Co-58, Fe-59, Co-60, Zn-65, Nb/Zr-95, I-131, Cs-134, Cs-137 and Ba/La-140 were reported.

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

D. Program Exceptions

For 2005 the LCS 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
A/I	L-07	01-27-05	No apparent reason for low reading of 148.9 hours; collector will check timer meter next collection period.
A	L-04	05-12-05	No vacuum due to pump malfunction; collector replaced pump.
A/I	L-06	08/10/05	Low reading of 109.1 hours due to power outage; station Point of Contact notified.
A	L-06	08/17/05	Low reading of 144.6 hours due to recent power restoration.
TLD	Other	09/29/05	TLD-214-4 found with broken case; TLD plate present.

Table D-2 LISTING OF MISSED SAMPLES

Sample Type	Location Code	Collection Date	Reason
TLD	Other	09-29-05	TLD -214-3 found missing during quarterly exchange; collector placed new fourth quarter TLD.

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

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

E. Program Changes

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

Far field air particulate filter samples are analyzed when the respective near field sample results are inconsistent with previous measurements and radioactivity is confirmed as having its origin in airborne effluents from the station, or at the discretion of the Radiological Environmental Monitoring Program (REMP) Coordinator. Starting with the third quarter of 2005, all far-field air particulate samples were analyzed.

The air iodine samples were replaced biweekly and sent to the lab for analysis. Five locations were analyzed weekly (L-01, L-03, L-05, L-06 and L-10) for the first half of the year, per the Quad Cities ODCM. All nine locations were analyzed the second half of the year.

IV. Results and Discussion

A. Aquatic Environment

1. Surface Water

Samples were taken weekly and composited monthly at two locations (L-21 and L-40). Of these locations only L-40 located downstream, could be affected by LaSalle's effluent releases. The following analyses were performed.

Gross Beta

Samples from all locations were analyzed for concentrations of gross beta (Table C-1.1, Appendix C). The values ranged from

<4.0 to 10.4 pCi/l. Concentrations detected were consistent with those detected in previous years (Figure C-1, Appendix C). The required LLD was met.

Tritium

Quarterly composites of weekly collections were analyzed for tritium activity (Table C-1.2, Appendix C). The values ranged from <187 to 943 pCi/l. Concentrations detected were consistent with those detected in previous years (Figure C-2, Appendix C). The 2000 pCi/L OCDM and contractually required 200 pCi/L LLDs were met.

Gamma Spectrometry

Samples from both 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/well Water

Quarterly grab samples were collected at two locations (L-27 and L-28). These locations could be affected by LaSalle's effluent releases. The following analyses were performed:

Tritium

Quarterly grab samples from the locations were analyzed for tritium activity (Table C-II.1, Appendix C). No tritium was detected and the 2000 pCi/L OCDM and contractually required 200 pCi/L LLDs were met.

Gamma Spectrometry

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

3. Fish

Fish samples comprised largemouth bass, smallmouth bass, channel catfish, bluegill, carp, freshwater drum and smallmouth buffalo were collected at three locations (L-34, L-35 and L-36) semiannually. Locations L-34 and L-35 could be affected by LaSalle'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 2,690 to 4,200 pCi/kg wet. No fission or activation products were found.

4. Sediment

Aquatic sediment samples were collected at two locations (L-40 and L-41) semiannually. Both locations, located downstream, could be affected by LaSalle's effluent releases. The following analysis was performed:

Gamma Spectrometry

Sediment samples from both locations were analyzed for gamma emitting nuclides (Table C-IV.1, Appendix C). Nuclides detected were naturally occurring K40, Ra-226 and Th-232.

K-40 and Th-232 were found at both stations and ranged from 12,900 to 17,800 pCi/kg dry and 440 to 835 pCi/kg dry, respectively. Ra-226 was found in one sample at a concentration of 3950 pCi/kg dry. No LaSalle fission or activation products were found.

B. Atmospheric Environment

1. Airborne

a. Air Particulates

Continuous air particulate samples were collected from nine locations on a weekly basis. The nine locations were separated into four groups: Group I (onsite) represents locations within the LCS site boundary (L-05 and L-06), Group II (near site) represents the locations near the LCS site (L-01 and L-06), Group III (far field) represents the control location at an intermediate distance from LCS (L-04, L-07, L-08 and L-11) and Group IV (Control) represents the control location at a remote distance (L-10). Far field samples are analyzed when the respective near field sample results are inconsistent with previous measurements and radioactivity is confirmed as having its origin in airborne

effluents from the station, or at the discretion of the Radiological Environmental Monitoring Program (REMP) Coordinator. 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 LCS. The results from the OnSite locations (Group I) ranged from 7 to 45 E-3 pCi/m³ with a mean of 22 E-3 pCi/m³. The results from the near site location (Group II) ranged from 9 to 43 E-3 pCi/m³ with a mean of 23 E-3 pCi/m³. The results from the far field locations (Group III) ranged from 7 to 48 E-3 pCi/m³ with a mean of 23 E-3 pCi/m³. The results from the Control location (Group IV) ranged from 10 to 47 E-3 pCi/m³ with a mean of 24 E-3 pCi/m³. Comparison of the 2005 air particulate data with previous years data indicate no effects from the operation of LCS (Figures C-3 through C-7, Appendix C). In addition a comparison of the weekly mean values for 2005 indicate no notable differences among the three groups.

Gamma Spectrometry

Weekly 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 all samples. These values ranged from 64 to 172 E-3 pCi/m³. Naturally occurring K-40 was detected in 2 samples at concentrations of 19 and 25 E-3 pCi/m³. All other nuclides were less than the MDC.

b. Airborne Iodine

Continuous air samples were collected from nine locations (L-01, L-03, L-04, L-05, L-07, L-08, L-10, L-14, and L-53) and analyzed weekly for I-131 (Table C-VI.1, Appendix C). Far field samples are analyzed when the respective near field sample results are inconsistent with previous measurements and radioactivity is confirmed as having its origin in airborne effluents from the station, or at the discretion of the REMP Coordinator. No nuclides were

detected, and all required LLDs were met.

2. Terrestrial

a. Milk

Samples were collected from one location (L-42) biweekly May through October and monthly November through April. The following analyses were performed:

Iodine-131

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

Gamma Spectrometry

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

Naturally occurring K-40 activity was found in all samples and ranged from 1,230 to 1,680 pCi/l. No other nuclides were detected, and all required LLDs were met.

b. Food Products

Food product samples were collected at five locations (L-Quad C, L-Quad 1, L-Quad 2, L-Quad 3 and L-Quad 4) when available. Four locations, (L-Quad 1, L-Quad 2, L-Quad 3 and L-Quad 4) could be affected by LaSalle'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 Panasonic 814 (CaF₂) thermoluminescent dosimeters. Forty-one 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/standard month, with a range of 19 to 34 mR/quarter. A comparison of the Inner Ring, Outer Ring, and Other data to the Control Location data, indicate that the ambient gamma radiation levels from the Control Location L-10 were comparable.

D. Land Use Survey

A Land Use Survey conducted during the August 2005 growing season around the LaSalle County Station (LCS) was performed by Environmental Inc. (Midwest Labs) for Exelon Nuclear to comply with Radiological Effluent Control 12.5.2 of the LaSalle's Offsite Dose Calculation Manual. The purpose of the survey was to document the nearest resident, milk producing animal and garden of greater than 500 ft² in each of the sixteen 22 ½ degree sectors around the site. The distance and direction of all locations from the LCS reactor buildings were positioned using Global Positioning System (GPS) technology. There were no changes required to the LCS REMP, as a result of this survey. The results of this survey are summarized below.

Distance in Miles from the LCS Reactor Buildings			
Sector	Residence Miles	Livestock Miles	Milk Farm Miles
A N	3.9	4.0	-
B NNE	1.6	1.7	-
C NE	2.1	3.5	-
D ENE	3.3	3.8	-
E E	3.2	-	12.6
F ESE	1.4	-	-
G SE	1.7	4.7	-
H SSE	1.8	4.7	-
J S	1.5	4.7	-
K SSW	0.7	-	-
L SW	1.0	5.8	-
M WSW	1.5	1.5	-
N W	1.5	3.0	-
P WNW	0.9	3.0	-
Q NW	1.8	4.0	-
R NNW	1.7	4.6	-

E. Summary of Results – Inter-Laboratory Comparison Program

The primary and secondary laboratories analyzed Performance Evaluation (PE) samples of air particulate, air iodine, milk, soil, vegetation and water matrices (Appendix D). The PE samples, supplied by Analytics Inc., Environmental Resource Associates (ERA) and DOE's Mixed Analyte

Performance Evaluation Program (MAPEP), were evaluated against the following pre-set acceptance criteria:

1. Analytics Evaluation Criteria

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

2. ERA Evaluation Criteria

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

3. DOE Evaluation Criteria

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

The MAPEP defines three levels of performance: Acceptable (flag = "A"), Acceptable with Warning (flag = "W"), and Not Acceptable (flag = "N"). Performance is considered acceptable when a mean result for the specified analyte is $\pm 20\%$ 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, 18 out of 19 analytes met the specified acceptance criteria. One sample did not meet the specified acceptance criteria for the following reason:

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

For the secondary laboratory, 19 out of 23 analytes met the specified

acceptance criteria. Four samples did not meet the specified acceptance criteria for the following reasons:

1. Environmental Inc.'s ERA's November 2005 water Gross Alpha result of 41.1 pCi/L exceeded the upper control limit of 33.4 pCi/L. This was due to using an Am-241 efficiency instead of a Th-232 efficiency when counting the sample. Using the correct efficiency gave a result of 27.0 pCi/L.
2. Environmental Inc.'s ERA's November 2005 water Ra-228 result of 5.5 pCi/L exceeded the upper control limit of 5.0 pCi/L due to presence of radium daughters. Delay in counting 100 minutes gave a result of 4.01 pCi/L.
3. Environmental Inc.'s MAPEP's January 2005 air particulate Sr-90 result of 2.2 exceeded the upper control limit of 1.76 Bq/kg. Reanalysis result was 1.56 Bq/kg.
4. Environmental Inc.'s MAPEP's July 2005 soil Am-241 result of 48.4 exceeded the lower control limit of 56.77 Bq/kg due to incorrect sample weight being used in the calculation. When recalculated with the correct sample weight, the result was 97.0 Bq/kg.

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

APPENDIX A

RADIOLOGICAL ENVIRONMENTAL MONITORING REPORT QUARTERLY AND ANNUAL SUMMARY

**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 1ST QUARTER SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE		DOCKET NUMBER: 50-373 & 50-374							
LOCATION OF FACILITY: MARSELLES, IL		REPORTING PERIOD: 1ST QUARTER, 2005							
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	CONTROL	LOCATION WITH HIGHEST ANNUAL MEAN		NUMBER OF NONROUTINE REPORTED MEASUREMENTS	
				LOCATIONS	LOCATION	STATIONS #			
				MEAN (F) RANGE	MEAN (F) RANGE	MEAN (F) RANGE	NAME DISTANCE AND DIRECTION		
SURFACE WATER (PCI/LITER)	GR-B	6	4	5.2 (1/3)	7.3 (2/3) (5.3/9.3)	7.3 (2/3) (5.3/9.3)	L-21 CONTROL ILLINOIS RIVER AT SENECA - UPSTREAM 4.0 MILES NE OF SITE	0	
	H-3	2	200	<LLD	<LLD	-	-	0	
	GAMMA MN-54	6	15	<LLD	<LLD	-	-	0	
	CO-58		15	<LLD	<LLD	-	-	0	
	FE-59		30	<LLD	<LLD	-	-	0	
	CO-60		15	<LLD	<LLD	-	-	0	
	ZN-65		30	<LLD	<LLD	-	-	0	
	NB-95		15	<LLD	<LLD	-	-	0	

MEAN AND RANGE BASED ON DETECTABLE MEASUREMENTS ONLY (M)
FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 1ST QUARTER SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE		DOCKET NUMBER: 50-373 & 50-374						
LOCATION OF FACILITY: MARSEILLES, IL		REPORTING PERIOD: 1ST QUARTER, 2005						
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	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	
	ZR-95		30	<LLD	<LLD	-	-	0
	I-131		15	<LLD	<LLD	-	-	0
	CS-134		15	<LLD	<LLD	-	-	0
	CS-137		18	<LLD	<LLD	-	-	0
	BA-140		60	<LLD	<LLD	-	-	0
	LA-140		15	<LLD	<LLD	-	-	0
GROUND/WELL WATER (PCI/LITER)	H-3	2	200	<LLD	N/A	-	-	0
	GAMMA MN-54	2	15	<LLD	N/A	-	-	0

MEAN AND RANGE BASED ON DETECTABLE MEASUREMENTS ONLY (M)
FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 1ST QUARTER SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE		DOCKET NUMBER: 50-373 & 50-374						
LOCATION OF FACILITY: MARSEILLES, IL		REPORTING PERIOD: 1ST QUARTER, 2005						
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	CONTROL	LOCATION WITH HIGHEST ANNUAL MEAN		
				LOCATIONS	LOCATION	MEAN	STATIONS #	NUMBER OF
				MEAN (F) RANGE	MEAN (F) RANGE	MEAN (F) RANGE	NAME DISTANCE AND DIRECTION	NONROUTINE REPORTED MEASUREMENTS
	CO-58		15	<LLD	N/A	-	-	0
	FE-59		30	<LLD	N/A	-	-	0
	CO-60		15	<LLD	N/A	-	-	0
	ZN-65		30	<LLD	N/A	-	-	0
	NB-95		15	<LLD	N/A	-	-	0
	ZR-95		30	<LLD	N/A	-	-	0
	CS-134		15	<LLD	N/A	-	-	0
	CS-137		18	<LLD	N/A	-	-	0

MEAN AND RANGE BASED ON DETECTABLE MEASUREMENTS ONLY (M)
FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 1ST QUARTER SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE		DOCKET NUMBER: 50-373 & 50-374						
LOCATION OF FACILITY: MARSEILLES, IL		REPORTING PERIOD: 1ST QUARTER, 2005						
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	CONTROL	LOCATION WITH HIGHEST ANNUAL MEAN		NUMBER OF NONROUTINE REPORTED MEASUREMENTS
				LOCATIONS	LOCATION	MEAN (F)	STATIONS # NAME DISTANCE AND DIRECTION	
				MEAN (F) RANGE	MEAN (F) RANGE	MEAN (F) RANGE		
	BA-140		60	<LLD	N/A	-	-	0
	LA-140		15	<LLD	N/A	-	-	0
AIR PARTICULATE (E-3 PCI/CU.METER)	GR-B	65	10	25 (52/52) (14/38)	27 (13/13) (18/42)	27 (13/13) (18/42)	L-10 CONTROL STREATOR 13.5 MILES SW OF SITE	0
	GAMMA MN-54	5	N/A	<LLD	<LLD	-	-	0
	CO-58		N/A	<LLD	<LLD	-	-	0
	FE-59		N/A	<LLD	<LLD	-	-	0
	CO-60		N/A	<LLD	<LLD	-	-	0
	ZN-65		N/A	<LLD	<LLD	-	-	0

MEAN AND RANGE BASED ON DETECTABLE MEASUREMENTS ONLY (M)
FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 1ST QUARTER SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE		DOCKET NUMBER: 50-373 & 50-374							
LOCATION OF FACILITY: MARSEILLES, IL		REPORTING PERIOD: 1ST QUARTER, 2005							
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	CONTROL	LOCATION WITH HIGHEST ANNUAL MEAN			NUMBER OF NONROUTINE REPORTED MEASUREMENTS
				LOCATIONS	LOCATION	MEAN	STATIONS #	NUMBER OF	
				MEAN	MEAN	MEAN	NAME	STATIONS #	
				(F)	(F)	(F)	DISTANCE AND DIRECTION		
				RANGE	RANGE	RANGE			
	ZRNB-95		N/A	<LLD	<LLD	-	-		0
	CS-134		50	<LLD	<LLD	-	-		0
	CS-137		60	<LLD	<LLD	-	-		0
	BALA-140		N/A	<LLD	<LLD	-	-		0
A-5	AIR IODINE (E-3 PCI/CU.METER)	I-131	30	70	<LLD	<LLD	-	-	0
	MILK (PCI/LITER)	I-131	3	1	N/A	<LLD	-	-	0
		GAMMA MN-54	3	N/A	N/A	<LLD	-	-	0
		CO-58		N/A	N/A	<LLD	-	-	0

MEAN AND RANGE BASED ON DETECTABLE MEASUREMENTS ONLY (M)
FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 1ST QUARTER SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE				DOCKET NUMBER: 50-373 & 50-374					
LOCATION OF FACILITY: MARSEILLES, IL				REPORTING PERIOD: 1ST QUARTER, 2005					
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	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			
	FE-59		N/A	N/A	<LLD	-	-		0
	CO-60		N/A	N/A	<LLD	-	-		0
	ZN-65		N/A	N/A	<LLD	-	-		0
	ZRNB-95		N/A	N/A	<LLD	-	-		0
	CS-134		15	N/A	<LLD	-	-		0
	CS-137		18	N/A	<LLD	-	-		0
	BA-140		60	N/A	<LLD	-	-		0
	LA-140		15	N/A	<LLD	-	-		0

MEAN AND RANGE BASED ON DETECTABLE MEASUREMENTS ONLY (M)
FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 1ST QUARTER SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE		DOCKET NUMBER: 50-373 & 50-374						
LOCATION OF FACILITY: MARSEILLES, IL		REPORTING PERIOD: 1ST QUARTER, 2005						
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	CONTROL	LOCATION WITH HIGHEST ANNUAL MEAN		NUMBER OF NONROUTINE REPORTED MEASUREMENTS
				LOCATIONS	LOCATION	STATIONS #	DISTANCE AND DIRECTION	
				MEAN (F) RANGE	MEAN (F) RANGE	MEAN (F) RANGE		
DIRECT RADIATION (MILLI-ROENTGEN/STD.MO.)	TLD-QUARTERLY	84	N/A	27.6 (82/82) (21/32)	27.0 (2/2) (27/27)	32.0 (1/1)	L-102-2* 0.6 MILES NNE OF SITE	INDICATOR 0

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* Locations L-105-1 & -2 and L-204-1 had identical results of 32.0 mR. Only L-102-2 is detailed in this summary.

MEAN AND RANGE BASED ON DETECTABLE MEASUREMENTS ONLY (M)

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

**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 2ND QUARTER SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE		DOCKET NUMBER: 50-373 & 50-374						
LOCATION OF FACILITY: MARSEILLES, IL		REPORTING PERIOD: 2ND QUARTER, 2005						
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	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	
SURFACE WATER (PCI/LITER)	GR-B	6	4	5.1 (3/3) (4.1/6.6)	4.9 (2/3) (4.2/5.7)	5.1 (3/3) (4.1/6.6)	L-40 INDICATOR ILLINOIS RIVER - DOWNSTREAM 5.2 MILES NNW OF SITE	0
	H-3	2	200	244 (1/1)	<LLD	244 (1/1)	L-40 INDICATOR ILLINOIS RIVER - DOWNSTREAM 5.2 MILES NNW OF SITE	0
	GAMMA MN-54	6	15	<LLD	<LLD	-	-	0
	CO-58		15	<LLD	<LLD	-	-	0
	FE-59		30	<LLD	<LLD	-	-	0
	CO-60		15	<LLD	<LLD	-	-	0
	ZN-65		30	<LLD	<LLD	-	-	0
	NB-95		15	<LLD	<LLD	-	-	0

MEAN AND RANGE BASED ON DETECTABLE MEASUREMENTS ONLY (M)
FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

A-1

**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 2ND QUARTER SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE		DOCKET NUMBER: 50-373 & 50-374						
LOCATION OF FACILITY: MARSEILLES, IL		REPORTING PERIOD: 2ND QUARTER, 2005						
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	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	
	ZR-95		30	<LLD	<LLD	-	-	0
	I-131		15	<LLD	<LLD	-	-	0
	CS-134		15	<LLD	<LLD	-	-	0
	CS-137		18	<LLD	<LLD	-	-	0
	BA-140		60	<LLD	<LLD	-	-	0
	LA-140		15	<LLD	<LLD	-	-	0
GROUND/WELL WATER (PCI/LITER)	H-3	2	200	<LLD	N/A	-	-	0
	GAMMA MN-54	2	15	<LLD	N/A	-	-	0

MEAN AND RANGE BASED ON DETECTABLE MEASUREMENTS ONLY (M)
FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

A-2

**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 2ND QUARTER SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE		DOCKET NUMBER: 50-373 & 50-374							
LOCATION OF FACILITY: MARSEILLES, IL		REPORTING PERIOD: 2ND QUARTER, 2005							
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	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	
	CO-58		15	<LLD	N/A	-	-	-	0
	FE-59		30	<LLD	N/A	-	-	-	0
	CO-60		15	<LLD	N/A	-	-	-	0
	ZN-65		30	<LLD	N/A	-	-	-	0
	NB-95		15	<LLD	N/A	-	-	-	0
	ZR-95		30	<LLD	N/A	-	-	-	0
	CS-134		15	<LLD	N/A	-	-	-	0
	CS-137		18	<LLD	N/A	-	-	-	0

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MEAN AND RANGE BASED ON DETECTABLE MEASUREMENTS ONLY (M)
FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 2ND QUARTER SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE		DOCKET NUMBER: 50-373 & 50-374							
LOCATION OF FACILITY: MARSEILLES, IL		REPORTING PERIOD: 2ND QUARTER, 2005							
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	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	
	BA-140		60	<LLD	N/A	-	-	-	0
	LA-140		15	<LLD	N/A	-	-	-	0
FISH (PCI/KG WET)	GAMMA MN-54	6	130	<LLD	<LLD	-	-	-	0
	CO-58		130	<LLD	<LLD	-	-	-	0
	FE-59		260	<LLD	<LLD	-	-	-	0
	CO-60		130	<LLD	<LLD	-	-	-	0
	ZN-65		260	<LLD	<LLD	-	-	-	0
	ZRNB-95		N/A	<LLD	<LLD	-	-	-	0

MEAN AND RANGE BASED ON DETECTABLE MEASUREMENTS ONLY (M)
FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 2ND QUARTER SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE		DOCKET NUMBER: 50-373 & 50-374							
LOCATION OF FACILITY: MARSEILLES, IL		REPORTING PERIOD: 2ND QUARTER, 2005							
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR MEAN (F) RANGE	CONTROL MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN		STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
	CS-134		130	<LLD	<LLD	-	-	-	0
	CS-137		150	<LLD	<LLD	-	-	-	0
	BALA-140		N/A	<LLD	<LLD	-	-	-	0
SEDIMENT (PCI/KG)	GAMMA MN-54	2	N/A	<LLD	N/A	-	-	-	0
	CO-58		N/A	<LLD	N/A	-	-	-	0
	FE-59		N/A	<LLD	N/A	-	-	-	0
	CO-60		N/A	<LLD	N/A	-	-	-	0
	ZN-65		N/A	<LLD	N/A	-	-	-	0

MEAN AND RANGE BASED ON DETECTABLE MEASUREMENTS ONLY (M)
FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 2ND QUARTER SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE		DOCKET NUMBER: 50-373 & 50-374						
LOCATION OF FACILITY: MARSEILLES, IL		REPORTING PERIOD: 2ND QUARTER, 2005						
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	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	
	ZRNB-95		N/A	<LLD	N/A	-	-	0
	CS-134		150	<LLD	N/A	-	-	0
	CS-137		180	<LLD	N/A	-	-	0
	BALA-140		N/A	<LLD	N/A	-	-	0
A-6 AIR PARTICULATE (E-3 PCI/CU.METER)	GR-B	65	10	22 (52/52) (14/45)	23 (13/13) (13/47)	23 (13/13) (16/38)	L-6 INDICATOR NEARSITE 6 0.4 MILES WSW OF SITE	0
	GAMMA MN-54	5	N/A	<LLD	<LLD	-	-	0
	CO-58		N/A	<LLD	<LLD	-	-	0
	FE-59		N/A	<LLD	<LLD	-	-	0

MEAN AND RANGE BASED ON DETECTABLE MEASUREMENTS ONLY (M)
FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 2ND QUARTER SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE		DOCKET NUMBER: 50-373 & 50-374							
LOCATION OF FACILITY: MARSEILLES, IL		REPORTING PERIOD: 2ND QUARTER, 2005							
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	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	
	CO-60		N/A	<LLD	<LLD	-	-	-	0
	ZN-65		N/A	<LLD	<LLD	-	-	-	0
	ZRNB-95		N/A	<LLD	<LLD	-	-	-	0
	CS-134		50	<LLD	<LLD	-	-	-	0
	CS-137		60	<LLD	<LLD	-	-	-	0
	BALA-140		N/A	<LLD	<LLD	-	-	-	0
AIR IODINE (E-3 PCI/CU.METER)	I-131	35	70	<LLD	<LLD	-	-	-	0
MILK (PCI/LITER)	I-131	5	1	N/A	<LLD	-	-	-	0

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MEAN AND RANGE BASED ON DETECTABLE MEASUREMENTS ONLY (M)
FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 2ND QUARTER SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE		DOCKET NUMBER: 50-373 & 50-374							
LOCATION OF FACILITY: MARSEILLES, IL		REPORTING PERIOD: 2ND QUARTER, 2005							
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	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	
	GAMMA MN-54	5	N/A	N/A	<LLD	-	-	-	0
	CO-58		N/A	N/A	<LLD	-	-	-	0
	FE-59		N/A	N/A	<LLD	-	-	-	0
	CO-60		N/A	N/A	<LLD	-	-	-	0
	ZN-65		N/A	N/A	<LLD	-	-	-	0
	ZRNB-95		N/A	N/A	<LLD	-	-	-	0
	CS-134		15	N/A	<LLD	-	-	-	0
	CS-137		18	N/A	<LLD	-	-	-	0

MEAN AND RANGE BASED ON DETECTABLE MEASUREMENTS ONLY (M)
FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 2ND QUARTER SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE		DOCKET NUMBER: 50-373 & 50-374						
LOCATION OF FACILITY: MARSEILLES, IL		REPORTING PERIOD: 2ND QUARTER, 2005						
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	CONTROL	LOCATION WITH HIGHEST ANNUAL MEAN		NUMBER OF NONROUTINE REPORTED MEASUREMENTS
				LOCATIONS	LOCATION	STATIONS #	NAME DISTANCE AND DIRECTION	
				MEAN (F) RANGE	MEAN (F) RANGE	MEAN (F) RANGE		
	BA-140		60	N/A	<LLD	-	-	0
	LA-140		15	N/A	<LLD	-	-	0
DIRECT RADIATION (MILLI-ROENTGEN/STD.MO.)	TLD-QUARTERLY	84	N/A	23.0 (82/82) (19/28)	21.5 (2/2) (21/22)	28.0 (1/1)	L-105-1 INDICATOR 0.7 MILES E OF SITE	0

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MEAN AND RANGE BASED ON DETECTABLE MEASUREMENTS ONLY (M)
FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 3RD QUARTER SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE		DOCKET NUMBER: 50-373 & 50-374						
LOCATION OF FACILITY: MARSEILLES, IL		REPORTING PERIOD: 3RD QUARTER, 2005						
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	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	6	4	8.5 (3/3) (6.7/10.4)	8.5 (3/3) (8.1/8.7)	8.5 (3/3) (8.1/8.7)	L-21 CONTROL ILLINOIS RIVER AT SENECA - UPSTREAM 4.0 MILES NE OF SITE	0
	H-3	2	200	<LLD	<LLD	-	-	0
	GAMMA MN-54	6	15	<LLD	<LLD	-	-	0
	CO-58		15	<LLD	<LLD	-	-	0
	FE-59		30	<LLD	<LLD	-	-	0
	CO-60		15	<LLD	<LLD	-	-	0
	ZN-65		30	<LLD	<LLD	-	-	0
	NB-95		15	<LLD	<LLD	-	-	0

A-1

MEAN AND RANGE BASED ON DETECTABLE MEASUREMENTS ONLY (M)
FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 3RD QUARTER SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE		DOCKET NUMBER: 50-373 & 50-374						
LOCATION OF FACILITY: MARSEILLES, IL		REPORTING PERIOD: 3RD QUARTER, 2005						
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	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	
	ZR-95		30	<LLD	<LLD	-	-	0
	I-131		15	<LLD	<LLD	-	-	0
	CS-134		15	<LLD	<LLD	-	-	0
	CS-137		18	<LLD	<LLD	-	-	0
	BA-140		60	<LLD	<LLD	-	-	0
	LA-140		15	<LLD	<LLD	-	-	0
GROUND/WELL WATER (PCI/LITER)	H-3	2	200	<LLD	N/A	-	-	0
	GAMMA MN-54	2	15	<LLD	N/A	-	-	0

MEAN AND RANGE BASED ON DETECTABLE MEASUREMENTS ONLY (M)
FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

A-2

**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 3RD QUARTER SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE				DOCKET NUMBER: 50-373 & 50-374					
LOCATION OF FACILITY: MARSEILLES, IL				REPORTING PERIOD: 3RD QUARTER, 2005					
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	CONTROL	LOCATION WITH HIGHEST ANNUAL MEAN			NUMBER OF NONROUTINE REPORTED MEASUREMENTS
				LOCATIONS	LOCATION	MEAN	STATIONS #	NUMBER OF	
				MEAN	MEAN	MEAN	NAME	DIRECTION	REPORTED
				(F)	(F)	(F)	DISTANCE AND		MEASUREMENTS
				RANGE	RANGE	RANGE			
	CO-58		15	<LLD	N/A	-	-		0
	FE-59		30	<LLD	N/A	-	-		0
	CO-60		15	<LLD	N/A	-	-		0
	ZN-65		30	<LLD	N/A	-	-		0
	NB-95		15	<LLD	N/A	-	-		0
	ZR-95		30	<LLD	N/A	-	-		0
	CS-134		15	<LLD	N/A	-	-		0
	CS-137		18	<LLD	N/A	-	-		0

MEAN AND RANGE BASED ON DETECTABLE MEASUREMENTS ONLY (M)
FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

A-3

**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 3RD QUARTER SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE		DOCKET NUMBER: 50-373 & 50-374						
LOCATION OF FACILITY: MARSEILLES, IL		REPORTING PERIOD: 3RD QUARTER, 2005						
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	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	
	BA-140		60	<LLD	N/A	-	-	0
	LA-140		15	<LLD	N/A	-	-	0
AIR PARTICULATE (E-3 PCI/CU.METER)	GR-B	117	10	20 (104/104) (7/47)	23 (13/13) (11/43)	23 (13/13) (11/43)	L-10 CONTROL STREATOR 13.5 MILES SW OF SITE	0
	GAMMA MN-54	9	N/A	<LLD	<LLD	-	-	0
	CO-58		N/A	<LLD	<LLD	-	-	0
	FE-59		N/A	<LLD	<LLD	-	-	0
	CO-60		N/A	<LLD	<LLD	-	-	0
	ZN-65		N/A	<LLD	<LLD	-	-	0

MEAN AND RANGE BASED ON DETECTABLE MEASUREMENTS ONLY (M)
FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

A-4

**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 3RD QUARTER SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE		DOCKET NUMBER: 50-373 & 50-374						
LOCATION OF FACILITY: MARSEILLES, IL		REPORTING PERIOD: 3RD QUARTER, 2005						
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	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
	ZRNB-95		N/A	<LLD	<LLD	-	-	0
	CS-134		50	<LLD	<LLD	-	-	0
	CS-137		60	<LLD	<LLD	-	-	0
	BALA140		N/A	<LLD	<LLD	-	-	0
A-5 AIR IODINE (E-3 PCI/CU.METER)	I-131	63	70	<LLD	<LLD	-	-	0
MILK (PCI/LITER)	I-131	6	1	N/A	<LLD	-	-	0
	GAMMA MN-54	6	N/A	N/A	<LLD	-	-	0
	CO-58		N/A	N/A	<LLD	-	-	0

MEAN AND RANGE BASED ON DETECTABLE MEASUREMENTS ONLY (M)
FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 3RD QUARTER SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE		DOCKET NUMBER: 50-373 & 50-374							
LOCATION OF FACILITY: MARSEILLES, IL		REPORTING PERIOD: 3RD QUARTER, 2005							
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	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	
	FE-59		N/A	N/A	<LLD	-	-	-	0
	CO-60		N/A	N/A	<LLD	-	-	-	0
	ZN-65		N/A	N/A	<LLD	-	-	-	0
	ZRNB-95		N/A	N/A	<LLD	-	-	-	0
	CS-134		15	N/A	<LLD	-	-	-	0
	CS-137		18	N/A	<LLD	-	-	-	0
	BA-140		60	N/A	<LLD	-	-	-	0
	LA-140		15	<LLD	<LLD	-	-	-	0

MEAN AND RANGE BASED ON DETECTABLE MEASUREMENTS ONLY (M)
FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 3RD QUARTER SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE		DOCKET NUMBER: 50-373 & 50-374							
LOCATION OF FACILITY: MARSEILLES, IL		REPORTING PERIOD: 3RD QUARTER, 2005							
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	CONTROL	LOCATION WITH HIGHEST ANNUAL MEAN		NUMBER OF NONROUTINE REPORTED MEASUREMENTS	
				LOCATIONS	LOCATION	STATIONS #	DISTANCE AND DIRECTION		
				MEAN (F)	MEAN (F)	MEAN (F)			
				RANGE	RANGE	RANGE			
FOOD PRODUCTS (PCI/KG WET)	GAMMA MN-54	10	N/A	<LLD	<LLD	-	-	0	
	CO-58		N/A	<LLD	<LLD	-	-	0	
	FE-59		N/A	<LLD	<LLD	-	-	0	
	CO-60		N/A	<LLD	<LLD	-	-	0	
	ZN-65		N/A	<LLD	<LLD	-	-	0	
	ZRNB-95		N/A	<LLD	<LLD	-	-	0	
	I-131		60	<LLD	<LLD	-	-	0	
	CS-134		60	<LLD	<LLD	-	-	0	

MEAN AND RANGE BASED ON DETECTABLE MEASUREMENTS ONLY (M)
FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 3RD QUARTER SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE		DOCKET NUMBER: 50-373 & 50-374							
LOCATION OF FACILITY: MARSEILLES, IL		REPORTING PERIOD: 3RD QUARTER, 2005							
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	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	
	CS-137		80	<LLD	<LLD	-	-		0
	BALA140		N/A	<LLD	<LLD	-	-		0
DIRECT RADIATION (MILLI-ROENTGEN/STD.MO.)	TLD-QUARTERLY	83	N/A	24.5 (81/81) (19/28)	20.0 (2/2) (20/20)	28.0 (1/1)	L-102-2* INDICATOR 0.6 MILES NNE OF SITE		0

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* Location L-210-2 had identical results of 28.0 mR. Only L-102-2 is detailed in this summary.

MEAN AND RANGE BASED ON DETECTABLE MEASUREMENTS ONLY (M)
FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 4TH QUARTER SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE		DOCKET NUMBER: 50-373 & 50-374						
LOCATION OF FACILITY: MARSEILLES, IL		REPORTING PERIOD: 4TH QUARTER, 2005						
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	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	
SURFACE WATER (PCI/LITER)	GR-B	6	4	9.4 (3/3) (7.8/10.2)	9 (3/3) (7.6/10.7)	9.4 (3/3) (7.8/10.2)	L-40 INDICATOR ILLINOIS RIVER - DOWNSTREAM 5.2 MILES NNW OF SITE	0
	H-3	2	200	821 (1/1)	943 (1/1)	943 (1/1)	L-21 CONTROL ILLINOIS RIVER AT SENECA - UPSTREAM 4.0 MILES NE OF SITE	0
	GAMMA MN-54	6	15	<LLD	<LLD	-	-	0
	CO-58		15	<LLD	<LLD	-	-	0
	FE-59		30	<LLD	<LLD	-	-	0
	CO-60		15	<LLD	<LLD	-	-	0
	ZN-65		30	<LLD	<LLD	-	-	0
	NB-95		15	<LLD	<LLD	-	-	0

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 4TH QUARTER SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE				DOCKET NUMBER: 50-373 & 50-374					
LOCATION OF FACILITY: MARSEILLES, IL				REPORTING PERIOD: 4TH QUARTER, 2005					
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR MEAN (F) RANGE	CONTROL MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN		STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
	ZR-95		30	<LLD	<LLD	-	-		0
	I-131		15	<LLD	<LLD	-	-		0
	CS-134		15	<LLD	<LLD	-	-		0
	CS-137		18	<LLD	<LLD	-	-		0
	BA-140		60	<LLD	<LLD	-	-		0
	LA-140		15	<LLD	<LLD	-	-		0
GROUND/WELL WATER (PCI/LITER)	H-3	2	200	<LLD	N/A	-	-		0
	GAMMA MN-54	2	15	<LLD	N/A	-	-		0

A-2

**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 4TH QUARTER SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE		DOCKET NUMBER: 50-373 & 50-374						
LOCATION OF FACILITY: MARSELLES, IL		REPORTING PERIOD: 4TH QUARTER, 2005						
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	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	
	CO-58		15	<LLD	N/A	-	-	0
	FE-59		30	<LLD	N/A	-	-	0
	CO-60		15	<LLD	N/A	-	-	0
	ZN-65		30	<LLD	N/A	-	-	0
	NB-95		15	<LLD	N/A	-	-	0
	ZR-95		30	<LLD	N/A	-	-	0
	CS-134		15	<LLD	N/A	-	-	0
	CS-137		18	<LLD	N/A	-	-	0

A-3

**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 4TH QUARTER SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE		DOCKET NUMBER: 50-373 & 50-374						
LOCATION OF FACILITY: MARSEILLES, IL		REPORTING PERIOD: 4TH QUARTER, 2005						
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	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	
	BA-140		60	<LLD	N/A	-	-	0
	LA-140		15	<LLD	N/A	-	-	0
FISH (PCI/KG WET)	GAMMA MN-54	6	130	<LLD	<LLD	-	-	0
	CO-58		130	<LLD	<LLD	-	-	0
	FE-59		260	<LLD	<LLD	-	-	0
	CO-60		130	<LLD	<LLD	-	-	0
	ZN-65		260	<LLD	<LLD	-	-	0
	ZRNB-95		N/A	<LLD	<LLD	-	-	0

A-4

**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 4TH QUARTER SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE				DOCKET NUMBER: 50-373 & 50-374					
LOCATION OF FACILITY: MARSEILLES, IL				REPORTING PERIOD: 4TH QUARTER, 2005					
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR MEAN (F) RANGE	CONTROL MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN		STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
	CS-134		130	<LLD	<LLD	-	-		0
	CS-137		150	<LLD	<LLD	-	-		0
	BALA140		N/A	<LLD	<LLD	-	-		0
SEDIMENT (PCI/KG DRY)	GAMMA MN-54	2	N/A	<LLD	N/A	-	-		0
	CO-58		N/A	<LLD	N/A	-	-		0
	FE-59		N/A	<LLD	N/A	-	-		0
	CO-60		N/A	<LLD	N/A	-	-		0
	ZN-65		N/A	<LLD	N/A	-	-		0

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 4TH QUARTER SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE		DOCKET NUMBER: 50-373 & 50-374						
LOCATION OF FACILITY: MARSEILLES, IL		REPORTING PERIOD: 4TH QUARTER, 2005						
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	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	
	ZRNB-95		N/A	<LLD	N/A	-	-	0
	CS-134		150	<LLD	N/A	-	-	0
	CS-137		180	<LLD	N/A	-	-	0
	BALA140		N/A	<LLD	N/A	-	-	0
A-6 AIR PARTICULATE (E-3 PCI/CU.METER)	GR-B	117	10	23 (104/104) (9/48)	24 (13/13) (10/41)	26 (13/13) (12/48)	L-11 INDICATOR RANSOM 6.0 MILES S OF SITE	0
	GAMMA MN-54	9	N/A	<LLD	<LLD	-	-	0
	CO-58		N/A	<LLD	<LLD	-	-	0
	FE-59		N/A	<LLD	<LLD	-	-	0

**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 4TH QUARTER SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE		DOCKET NUMBER: 50-373 & 50-374						
LOCATION OF FACILITY: MARSEILLES, IL		REPORTING PERIOD: 4TH QUARTER, 2005						
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	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	
	CO-60		N/A	<LLD	<LLD	-	-	0
	ZN-65		N/A	<LLD	<LLD	-	-	0
	ZRNB-95		N/A	<LLD	<LLD	-	-	0
	CS-134		50	<LLD	<LLD	-	-	0
	CS-137		60	<LLD	<LLD	-	-	0
	BALA140		N/A	<LLD	<LLD	-	-	0
AIR IODINE (E-3 PCI/CU.METER)	I-131	54	70	<LLD	<LLD	-	-	0
MILK (PCI/LITER)	I-131	4	1	N/A	<LLD	-	-	0

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 4TH QUARTER SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE		DOCKET NUMBER: 50-373 & 50-374						
LOCATION OF FACILITY: MARSEILLES, IL		REPORTING PERIOD: 4TH QUARTER, 2005						
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	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	
	GAMMA MN-54	4	N/A	N/A	<LLD	-	-	0
	CO-58		N/A	N/A	<LLD	-	-	0
	FE-59		N/A	N/A	<LLD	-	-	0
	CO-60		N/A	N/A	<LLD	-	-	0
	ZN-65		N/A	N/A	<LLD	-	-	0
	ZRNB-95		N/A	N/A	<LLD	-	-	0
	CS-134		15	N/A	<LLD	-	-	0
	CS-137		18	N/A	<LLD	-	-	0

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM 4TH QUARTER SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE		DOCKET NUMBER: 50-373 & 50-374						
LOCATION OF FACILITY: MARSEILLES, IL		REPORTING PERIOD: 4TH QUARTER, 2005						
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR LOCATIONS MEAN (F) RANGE	CONTROL LOCATION MEAN (F) RANGE	LOCATION WITH HIGHEST ANNUAL MEAN MEAN (F) RANGE	STATIONS # NAME DISTANCE AND DIRECTION	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
	BA-140		60	N/A	<LLD	-		0
DIRECT RADIATION (MILLI-ROENTGEN/STD.MO.)	LA-140 TLD-QUARTERLY	84	15 N/A	N/A	<LLD	-	L-102-1 INDICATOR 0.6 MILES NNE OF SITE	0
				(82/82) (24/34)	(2/2) (25/27)	34.0 (1/1)		0

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM ANNUAL SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE		DOCKET NUMBER: 50-373 & 50-374							
LOCATION OF FACILITY: MARSEILLES, IL		REPORTING PERIOD: ANNUAL, 2005							
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	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		
SURFACE WATER (PCI/LITER)	GR-B	24	4	7.4 (10/12) (4.1/10.4)	7.7 (10/12) (4.2/10.7)	7.7 (10/12) (4.2/10.7)	L-21 CONTROL ILLINOIS RIVER AT SENECA - UPSTREAM 4.0 MILES NE OF SITE	0	
	H-3	8	200	533 (2/4) (244/821)	943 (1/4)	943 (1/4)	L-21 CONTROL ILLINOIS RIVER AT SENECA - UPSTREAM 4.0 MILES NE OF SITE	0	
	GAMMA MN-54	24	15	<LLD	<LLD	-	-	0	
	CO-58		15	<LLD	<LLD	-	-	0	
	FE-59		30	<LLD	<LLD	-	-	0	
	CO-60		15	<LLD	<LLD	-	-	0	
	ZN-65		30	<LLD	<LLD	-	-	0	
	NB-95		15	<LLD	<LLD	-	-	0	

MEAN AND RANGE BASED ON DETECTABLE MEASUREMENTS ONLY (M)
FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

A-1

**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM ANNUAL SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE		DOCKET NUMBER: 50-373 & 50-374							
LOCATION OF FACILITY: MARSEILLES, IL		REPORTING PERIOD: ANNUAL, 2005							
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	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		
	ZR-95		30	<LLD	<LLD	-	-	-	0
	I-131		15	<LLD	<LLD	-	-	-	0
	CS-134		15	<LLD	<LLD	-	-	-	0
	CS-137		18	<LLD	<LLD	-	-	-	0
	BA-140		60	<LLD	<LLD	-	-	-	0
	LA-140		15	<LLD	<LLD	-	-	-	0
GROUND/WELL WATER (PCI/LITER)	H-3	8	200	<LLD	N/A	-	-	-	0
	GAMMA MN-54	8	15	<LLD	N/A	-	-	-	0

MEAN AND RANGE BASED ON DETECTABLE MEASUREMENTS ONLY (M)
FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

A-2

**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM ANNUAL SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE		DOCKET NUMBER: 50-373 & 50-374						
LOCATION OF FACILITY: MARSEILLES, IL		REPORTING PERIOD: ANNUAL, 2005						
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	CONTROL	LOCATION WITH HIGHEST ANNUAL MEAN		
				LOCATIONS	LOCATION	MEAN	STATIONS #	NUMBER OF
				MEAN (F) RANGE	MEAN (F) RANGE	MEAN (F) RANGE	NAME DISTANCE AND DIRECTION	NONROUTINE REPORTED MEASUREMENTS
	CO-58		15	<LLD	N/A	-	-	0
	FE-59		30	<LLD	N/A	-	-	0
	CO-60		15	<LLD	N/A	-	-	0
	ZN-65		30	<LLD	N/A	-	-	0
	NB-95		15	<LLD	N/A	-	-	0
	ZR-95		30	<LLD	N/A	-	-	0
	CS-134		15	<LLD	N/A	-	-	0
	CS-137		18	<LLD	N/A	-	-	0

MEAN AND RANGE BASED ON DETECTABLE MEASUREMENTS ONLY (M)
FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

A-3

**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM ANNUAL SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE		DOCKET NUMBER: 50-373 & 50-374						
LOCATION OF FACILITY: MARSEILLES, IL		REPORTING PERIOD: ANNUAL, 2005						
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	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
	BA-140		60	<LLD	N/A	-	-	0
	LA-140		15	<LLD	N/A	-	-	0
FISH (PCI/KG WET)	GAMMA MN-54	12	130	<LLD	<LLD	-	-	0
	CO-58		130	<LLD	<LLD	-	-	0
	FE-59		260	<LLD	<LLD	-	-	0
	CO-60		130	<LLD	<LLD	-	-	0
	ZN-65		260	<LLD	<LLD	-	-	0
	ZRNB-95		N/A	<LLD	<LLD	-	-	0

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MEAN AND RANGE BASED ON DETECTABLE MEASUREMENTS ONLY (M)
FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM ANNUAL SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE		DOCKET NUMBER: 50-373 & 50-374						
LOCATION OF FACILITY: MARSEILLES, IL		REPORTING PERIOD: ANNUAL, 2005						
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	CONTROL	LOCATION WITH HIGHEST ANNUAL MEAN		NUMBER OF NONROUTINE REPORTED MEASUREMENTS
				LOCATIONS	LOCATION	STATIONS #	DISTANCE AND DIRECTION	
				MEAN (F) RANGE	MEAN (F) RANGE	MEAN (F) RANGE		
	CS-134		130	<LLD	<LLD	-	-	0
	CS-137		150	<LLD	<LLD	-	-	0
	BALA-140		N/A	<LLD	<LLD	-	-	0
SEDIMENT (PCI/KG DRY)	GAMMA MN-54	4	N/A	<LLD	N/A	-	-	0
	CO-58		N/A	<LLD	N/A	-	-	0
	FE-59		N/A	<LLD	N/A	-	-	0
	CO-60		N/A	<LLD	N/A	-	-	0
	ZN-65		N/A	<LLD	N/A	-	-	0

MEAN AND RANGE BASED ON DETECTABLE MEASUREMENTS ONLY (M)
FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM ANNUAL SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE		DOCKET NUMBER: 50-373 & 50-374						
LOCATION OF FACILITY: MARSEILLES, IL		REPORTING PERIOD: ANNUAL, 2005						
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	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	
	ZRNB-95		N/A	<LLD	N/A	-	-	0
	CS-134		150	<LLD	N/A	-	-	0
	CS-137		180	<LLD	N/A	-	-	0
	BALA-140		N/A	<LLD	N/A	-	-	0
A-6 AIR PARTICULATE (E-3 PCI/CU.METER)	GR-B	364	10	23 (312/312) (7/48)	24 (52/52) (10/47)	24 (52/52) (10/47)	L-10 CONTROL STREATOR 13.5 MILES SW OF SITE	0
	GAMMA MN-54	28	N/A	<LLD	<LLD	-	-	0
	CO-58		N/A	<LLD	<LLD	-	-	0
	FE-59		N/A	<LLD	<LLD	-	-	0

MEAN AND RANGE BASED ON DETECTABLE MEASUREMENTS ONLY (M)
FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM ANNUAL SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE		DOCKET NUMBER: 50-373 & 50-374						
LOCATION OF FACILITY: MARSEILLES, IL		REPORTING PERIOD: ANNUAL, 2005						
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	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
	CO-60		N/A	<LLD	<LLD	-	-	0
	ZN-65	28	N/A	<LLD	<LLD	-	-	0
	ZRNB-95	28	N/A	<LLD	<LLD	-	-	0
	CS-134	28	50	<LLD	<LLD	-	-	0
	CS-137	28	60	<LLD	<LLD	-	-	0
	BALA140	28	N/A	<LLD	<LLD	-	-	0
AIR IODINE (E-3 PCI/CU.METER)	I-131	182	70	<LLD	<LLD	-	-	0
MILK (PCI/LITER)	I-131	18	1	N/A	<LLD	-	-	0

MEAN AND RANGE BASED ON DETECTABLE MEASUREMENTS ONLY (M)
FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM ANNUAL SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE		DOCKET NUMBER: 50-373 & 50-374							
LOCATION OF FACILITY: MARSEILLES, IL		REPORTING PERIOD: ANNUAL, 2005							
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	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	
	GAMMA MN-54	18	N/A	N/A	<LLD	-	-	-	0
	CO-58		N/A	N/A	<LLD	-	-	-	0
	FE-59		N/A	N/A	<LLD	-	-	-	0
	CO-60		N/A	N/A	<LLD	-	-	-	0
	ZN-65		N/A	N/A	<LLD	-	-	-	0
	ZRNB-95		N/A	N/A	<LLD	-	-	-	0
	CS-134		15	N/A	<LLD	-	-	-	0
	CS-137		18	N/A	<LLD	-	-	-	0

MEAN AND RANGE BASED ON DETECTABLE MEASUREMENTS ONLY (M)
FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM ANNUAL SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE		DOCKET NUMBER: 50-373 & 50-374							
LOCATION OF FACILITY: MARSEILLES, IL		REPORTING PERIOD: ANNUAL, 2005							
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	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	
	BA-140		60	N/A	<LLD	-	-	-	0
	LA-140		15	N/A	<LLD	-	-	-	0
FOOD PRODUCTS (PCI/KG WET)	GAMMA MN-54	10	N/A	<LLD	<LLD	-	-	-	0
	CO-58		N/A	<LLD	<LLD	-	-	-	0
	FE-59		N/A	<LLD	<LLD	-	-	-	0
	CO-60		N/A	<LLD	<LLD	-	-	-	0
	ZN-65		N/A	<LLD	<LLD	-	-	-	0
	ZRNB-95		N/A	<LLD	<LLD	-	-	-	0

MEAN AND RANGE BASED ON DETECTABLE MEASUREMENTS ONLY (M)
FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

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**TABLE A-1 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM ANNUAL SUMMARY FOR
THE LASALLE COUNTY STATION, 2005**

NAME OF FACILITY: LASALLE		DOCKET NUMBER: 50-373 & 50-374							
LOCATION OF FACILITY: MARSEILLES, IL		REPORTING PERIOD: ANNUAL, 2005							
MEDIUM OR PATHWAY SAMPLED (UNIT OF MEASUREMENT)	TYPES OF ANALYSES PERFORMED	NUMBER OF ANALYSES PERFORMED	REQUIRED LOWER LIMIT OF DETECTION (LLD)	INDICATOR	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		
	I-131		60	<LLD	<LLD	-	-	0	
	CS-134		60	<LLD	<LLD	-	-	0	
	CS-137		80	<LLD	<LLD	-	-	0	
	BALA140		N/A	<LLD	<LLD	-	-	0	
A-10 DIRECT RADIATION (MILLI-ROENTGEN/STD.MO.)	TLD-QUARTERLY	335	N/A	26.1 (327/327) (19/34)	23.6 (8/8) (20/27)	30.0 (4/4) (27/33)	L-105-1 INDICATOR 0.7 MILES E OF SITE	0	

MEAN AND RANGE BASED ON DETECTABLE MEASUREMENTS ONLY (M)
FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F)

APPENDIX B

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

TABLE B-1: Radiological Environmental Monitoring Program - Sampling Locations, Distance and Direction, LaSalle County Station, 2005

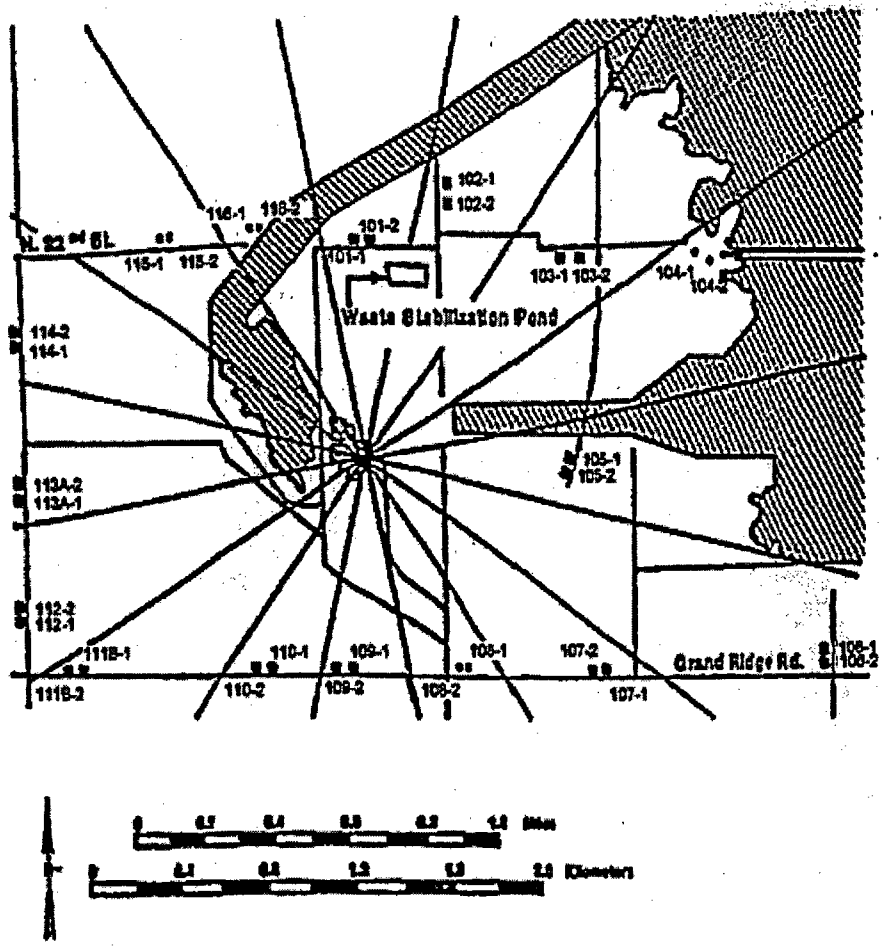
Location	Location Description	Distance & Direction From Site
A. Surface Water		
L-21	Illinois River at Seneca, Upstream (control)	4.0 miles NE
L-40	Illinois River, Downstream (indicator)	5.2 miles NNW
B. Ground/Well Water		
L-27	LSCS Onsite Well (indicator)	0 miles at station
L-28	Marseilles Well (indicator)	7.0 miles NW
C. Milk - bi-weekly / monthly		
L-42	Biros Farm (control)	14.2 miles E
D. Air Particulates / Air Iodine		
L-01	Nearsite 1 (indicator)	1.5 miles NNW
L-03	Onsite 3 (indicator)	1.0 miles ENE
L-04	Rte. 170 (indicator)	3.2 miles E
L-05	Onsite 5 (indicator)	0.3 miles ESE
L-06	Nearsite 6 (indicator)	0.4 miles WSW
L-07	Seneca (indicator)	5.2 miles NNE
L-08	Marseilles (indicator)	6.0 miles NNW
L-10	Streator (control)	13.5 miles SW
L-11	Ransom (indicator)	6.0 miles S
E. Fish		
L-34	LaSalle Cooling Lake (indicator)	2.0 miles E
L-35	Marseilles Pool of Illinois River, Downstream (indicator)	6.5 miles NW
L-36	Illinois River, Upstream of Discharge (control)	4.3 miles NNE
F. Sediment		
L-40	Illinois River, Downstream (indicator)	5.2 miles NNW
L-41	Illinois River, Downstream (indicator)	4.6 miles NNW
G. Food Products		
Quadrant 1	Diane Partridge	4.5 miles NE
Quadrant 2	Mike and Gina Welbourne	3.8 miles ESE
Quadrant 3	Michael Olson	1.5 miles WSW
Quadrant 4	Robert Eisers	4.5 miles NW
Control	Eugene Clements	10.0 miles NW
H. Environmental Dosimetry - TLD		
Inner Ring		
L-101-1 and -2		0.5 miles N
L-102-1 and -2		0.6 miles NNE
L-103-1 and -2		0.7 miles NE
L-104-1 and -2		0.8 miles ENE
L-105-1 and -2		0.7 miles E
L-106-1 and -2		1.4 miles ESE
L-107-1 and -2		0.8 miles SE
L-108-1 and -2		0.5 miles SSE
L-109-1 and -2		0.6 miles S
L-110-1 and -2		0.6 miles SSW
L-111b-1 and -2		0.8 miles SW

TABLE B-1: Radiological Environmental Monitoring Program - Sampling Locations, Distance and Direction, LaSalle County Station, 2005

Location	Location Description	Distance & Direction From Site
L-112-1 and -2		0.9 miles WSW
L-113a-1 and -2		0.8 miles W
L-114-1 and -2		0.9 miles WNW
L-115-1 and -2		0.7 miles NW
L-116-1 and -2		0.6 miles NNW
<u>Outer Ring</u>		
L-201-3 and -4		4.0 miles N
L-202-3 and -4		3.6 miles NNE
L-203-1 and -2		4.0 miles NE
L-204-1 and -2		3.2 miles ENE
L-205-1 and -2		3.2 miles ESE
L-205-3 and -4		5.1 miles E
L-206-1 and -2		4.3 miles SE
L-207-1 and -2		4.5 miles SSE
L-208-1 and -2		4.5 miles S
L-209-1 and -2		4.0 miles SSW
L-210-1 and -2		3.3 miles SW
L-211-1 and -2		4.5 miles WSW
L-212-1 and -2		4.0 miles WSW
L-213-3 and -4		4.9 miles W
L-214-3 and -4		5.1 miles WNW
L-215-3 and -4		5.0 miles NW
L-216-3 and -4		5.0 miles NNW
<u>Other</u>		
L-01-1 and -2	Nearsite 1 (indicator)	1.5 miles NNW
L-03-1 and -2	Onsite 3 (indicator)	1.0 miles ENE
L-04-1 and -2	Rte. 170 (indicator)	3.2 miles E
L-05-1 and -2	Onsite 5 (indicator)	0.3 miles ESE
L-06-1 and -2	Nearsite 6 (indicator)	0.4 miles WSW
L-07-1 and -2	Seneca (indicator)	5.2 miles NNE
L-08-1 and -2	Marseilles (indicator)	6.0 miles NNW
L-11-1 and -2	Ransom	6.0 miles S
<u>Control and Special Interest</u>		
L-10-1 and -2	Streator	13.5 miles SW

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

Sample Medium	Analysis	Sampling Method	Analytical Procedure Number
Surface Water	Gamma Spectroscopy	Monthly composite from weekly grab samples.	TBE, TBE-2007 Gamma emitting radioisotope analysis Env. Inc., GS-01 Determination of gamma emitters by gamma spectroscopy
Surface Water	Gross Beta	Monthly composite from weekly grab samples.	TBE, TBE-2008 Gross Alpha and/or gross beta activity in various matrices Env. Inc., W(DS)-01 Determination of gross alpha and/or gross beta in water (dissolved solids or total residue)
Surface Water	Tritium	Quarterly composite from weekly grab samples.	TBE, TBE-2011 Tritium analysis in drinking water by liquid scintillation Env. Inc., T-02 Determination of tritium in water (direct method)
Ground/Well Water	Gamma Spectroscopy	Quarterly grab samples.	TBE, TBE-2007 Gamma emitting radioisotope analysis Env. Inc., GS-01 Determination of gamma emitters by gamma spectroscopy
Ground/Well Water	Tritium	Quarterly grab samples.	TBE, TBE-2011 Tritium analysis in drinking water by liquid scintillation Env. Inc., T-02 Determination of tritium in water (direct method)
Fish	Gamma Spectroscopy	Semi-annual samples collected via electroshocking or other techniques	TBE-2007 Gamma emitting radioisotope analysis Env. Inc., GS-01 Determination of gamma emitters by gamma spectroscopy
Sediment	Gamma Spectroscopy	Semi-annual grab samples	TBE, TBE-2007 Gamma emitting radioisotope analysis Env. Inc., GS-01 Determination of gamma emitters by gamma spectroscopy
Air Particulates	Gross Beta	One-week composite of continuous air sampling through glass fiber filter paper	TBE, TBE-2008 Gross Alpha and/or gross beta activity in various matrices Env. Inc., AP-02 Determination of gross alpha and/or gross beta in air particulate filters
Air Particulates	Gamma Spectroscopy	Quarterly composite of each station	TBE, TBE-2007 Gamma emitting radioisotope analysis Env. Inc., GS-01 Determination of gamma emitters by gamma spectroscopy
Air Iodine	Gamma Spectroscopy	Bi-weekly composite of continuous air sampling through charcoal filter	TBE, TBE-2007 Gamma emitting radioisotope analysis Env. Inc., I-131-02 Determination of I-131 in charcoal canisters by gamma spectroscopy (batch method)
Milk	I-131	Bi-weekly grab sample when cows are on pasture. Monthly all other times	TBE, TBE-2012 Radioiodine in various matrices Env. Inc., I-131-01 Determination of I-131 in milk by anion exchange
Milk	Gamma Spectroscopy	Bi-weekly grab sample when cows are on pasture. Monthly all other times	TBE, TBE-2007 Gamma emitting radioisotope analysis Env. Inc., GS-01 Determination of gamma emitters by gamma spectroscopy
Food Products	Gamma Spectroscopy	Annual grab samples.	TBE, TBE-2007 Gamma emitting radioisotope analysis Env. Inc., GS-01 Determination of gamma emitters by gamma spectroscopy
TLD	Thermoluminescence Dosimetry	Quarterly TLDs comprised of two Global Dosimetry CaF ₂ elements.	Global Dosimetry



■ TLD Location

Figure B-1
 Inner Ring TLD Locations
 of the LaSalle County Station, 2005

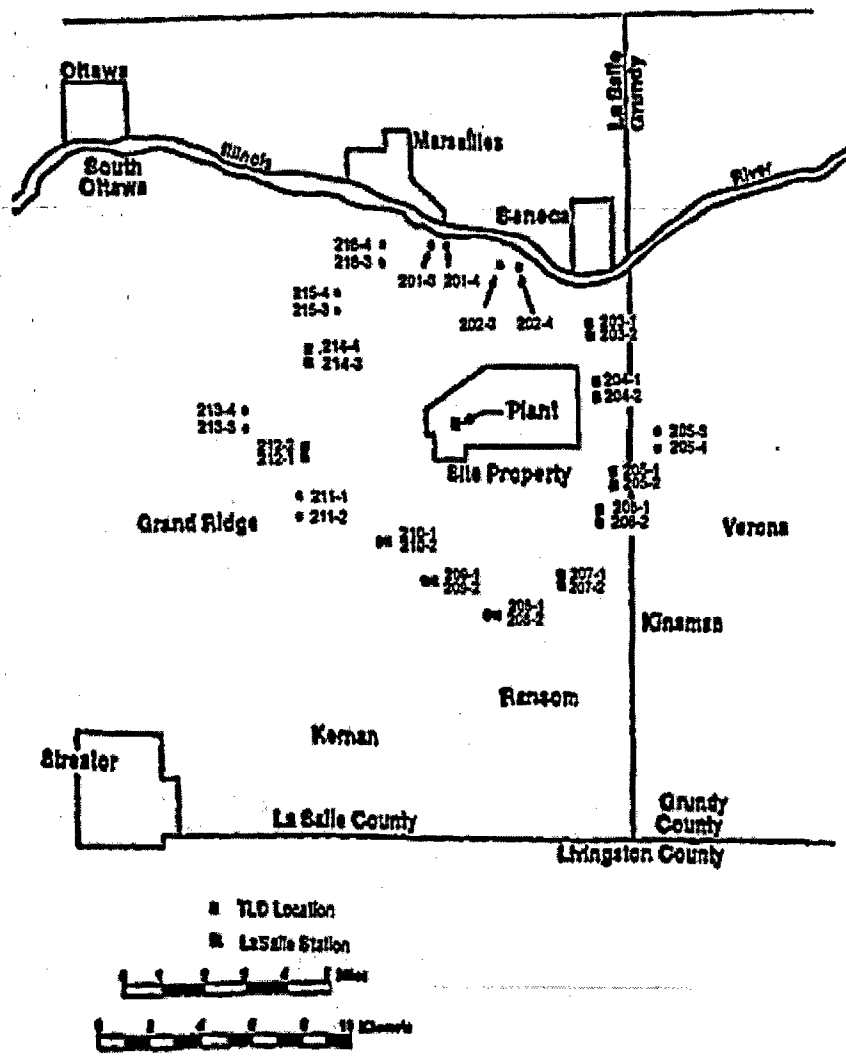


Figure B-2
 Outer Ring TLD Locations
 of the LaSalle County Station, 2005
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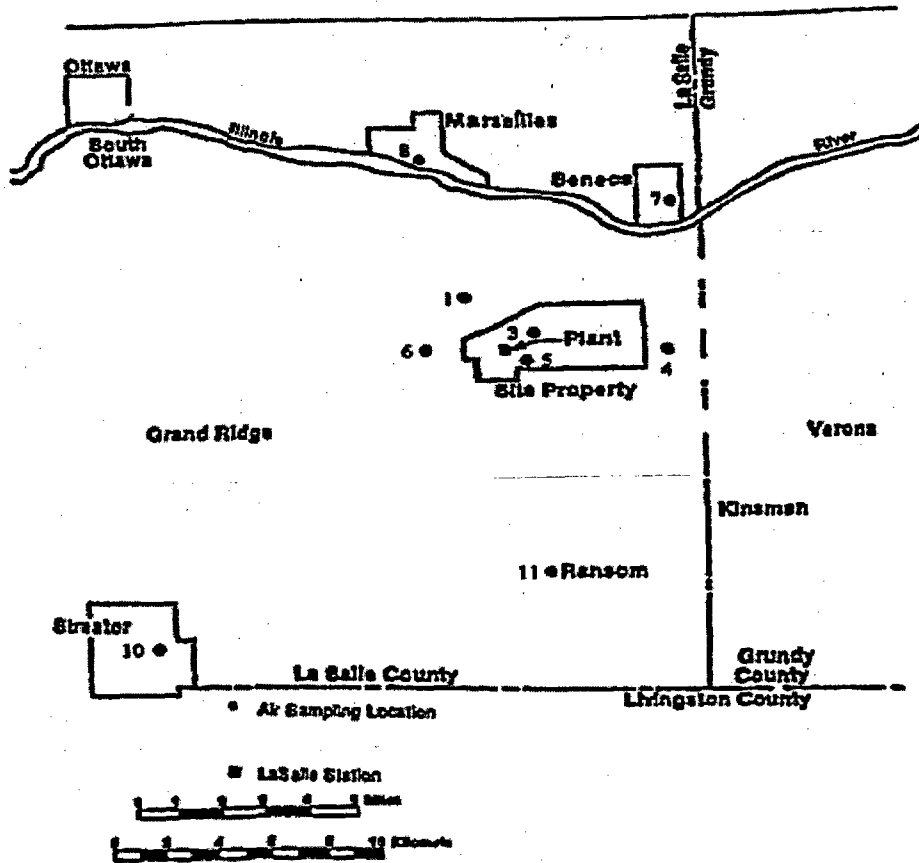


Figure B-3
 Fixed Air Sampling Locations
 of the LaSalle County Station, 2005

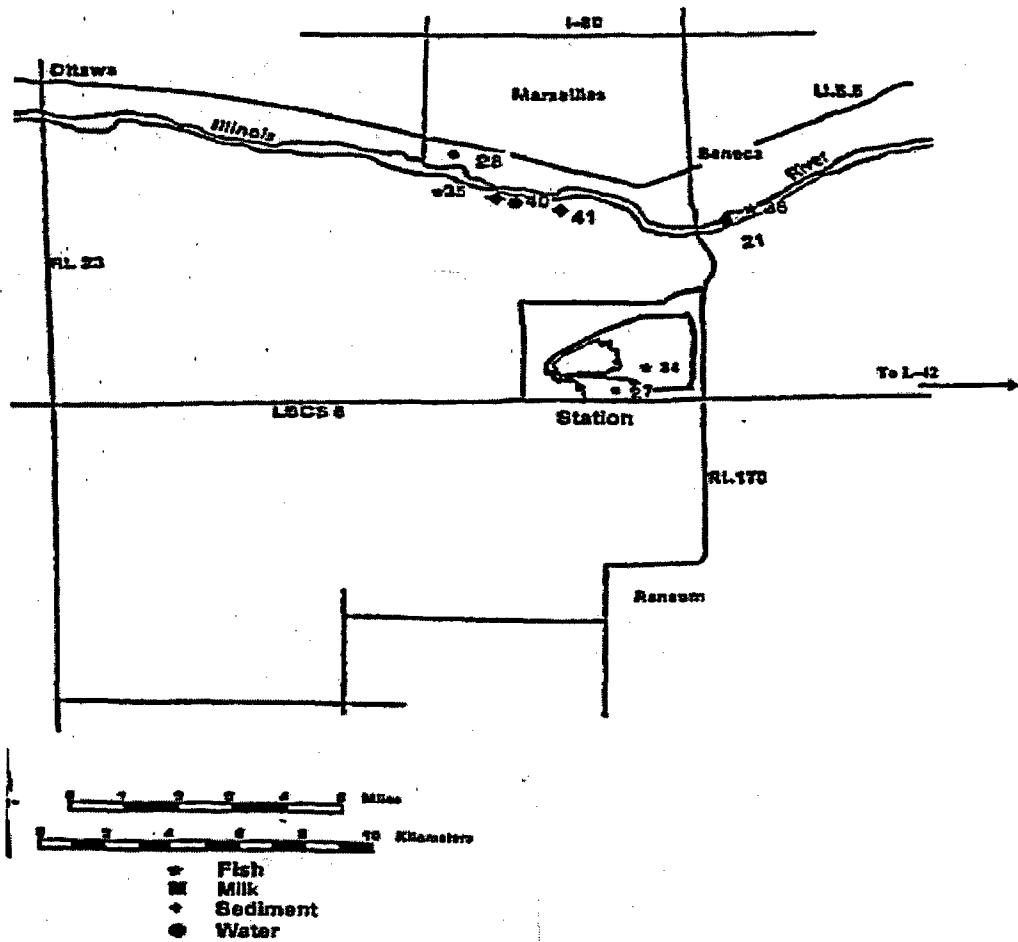


Figure B-4
 Ingestion and Waterborne Exposure Pathway Sample Locations
 of the LaSalle County Station, 2005

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APPENDIX C

**DATA TABLES AND FIGURES
PRIMARY LABORATORY**

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

RESULTS IN UNITS OF PCI/LITER ± 2 SIGMA

COLLECTION PERIOD	L-21	L-40
JAN	< 4.0	< 4.0
FEB	5.3 ± 1.3	5.2 ± 1.3
MAR	9.3 ± 1.1	< 4.0
APR	5.6 ± 1.2	4.7 ± 1.3
MAY	< 4.0	6.6 ± 1.6
JUN	4.2 ± 0.8	4.1 ± 0.8
JUL	8.7 ± 2.3	6.7 ± 2.2
AUG	8.1 ± 2.3	8.3 ± 2.3
SEP	8.7 ± 2.1	10 ± 2.3
OCT	11 ± 2.2	10 ± 2.2
NOV	8.7 ± 2.1	10 ± 2.2
DEC	7.6 ± 2.6	7.8 ± 2.6

TABLE C-I.2 CONCENTRATIONS OF TRITIUM IN SURFACE WATER SAMPLES COLLECTED IN THE VICINITY OF LASALLE COUNTY STATION, 2005

RESULTS IN UNITS OF PCI/LITER ± 2 SIGMA

COLLECTION PERIOD	L-21	L-40
JAN-MAR	< 200	< 200
APR-JUN	< 200	244 ± 96
JUL-SEP	< 187	< 192
OCT-DEC	943 ± 120	821 ± 116

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

TABLE C-1.3 CONCENTRATIONS OF GAMMA EMITTERS IN SURFACE WATER SAMPLES COLLECTED IN THE VICINITY OF LASALLE COUNTY STATION, 2005

RESULTS IN UNITS OF PCI/LITER ± 2 SIGMA

STC	COLLECTION PERIOD	MN-54	CO-58	FE-59	CO-60	ZN-65	NB-95	ZR-95	I-131	CS-134	CS-137	BA-140	LA-140
L-21	JAN	< 15	< 15	< 30	< 15	< 30	< 15	< 30	< 15	< 15	< 18	< 60	< 15
	FEB	< 15	< 15	< 30	< 15	< 30	< 15	< 30	< 15	< 15	< 18	< 60	< 15
	MAR	< 15	< 15	< 30	< 15	< 30	< 15	< 30	< 15	< 15	< 18	< 60	< 15
	APR	< 15	< 15	< 30	< 15	< 30	< 15	< 30	< 15	< 15	< 18	< 60	< 15
	MAY	< 15	< 15	< 30	< 15	< 30	< 15	< 30	< 15	< 15	< 18	< 60	< 15
	JUN	< 15	< 15	< 30	< 15	< 30	< 15	< 30	< 15	< 15	< 18	< 60	< 15
	JUL	< 2	< 2	< 5	< 1	< 3	< 2	< 3	< 11	< 2	< 11	< 32	< 12
	AUG	< 1	< 1	< 2	< 1	< 1	< 1	< 1	< 6	< 1	< 1	< 9	< 3
	SEP	< 1	< 1	< 3	< 2	< 2	< 1	< 2	< 9	< 1	< 1	< 14	< 5
	OCT	< 1	< 1	< 3	< 1	< 2	< 1	< 2	< 10	< 1	< 1	< 15	< 5
	NOV	< 2	< 2	< 4	< 1	< 4	< 2	< 3	< 13	< 2	< 2	< 20	< 7
	DEC	< 1	< 1	< 3	< 1	< 3	< 2	< 3	< 14	< 1	< 1	< 19	< 7
L-40	JAN	< 15	< 15	< 30	< 15	< 30	< 15	< 30	< 15	< 15	< 18	< 60	< 15
	FEB	< 15	< 15	< 30	< 15	< 30	< 15	< 30	< 15	< 15	< 18	< 60	< 15
	MAR	< 15	< 15	< 30	< 15	< 30	< 15	< 30	< 15	< 15	< 18	< 60	< 15
	APR	< 15	< 15	< 30	< 15	< 30	< 15	< 30	< 15	< 15	< 18	< 60	< 15
	MAY	< 15	< 15	< 30	< 15	< 30	< 15	< 30	< 15	< 15	< 18	< 60	< 15
	JUN	< 15	< 15	< 30	< 15	< 30	< 15	< 30	< 15	< 15	< 18	< 60	< 15
	JUL	< 2	< 3	< 7	< 2	< 5	< 3	< 5	< 14	< 2	< 2	< 47	< 14
	AUG	< 1	< 1	< 3	< 1	< 2	< 1	< 2	< 10	< 1	< 1	< 16	< 5
	SEP	< 1	< 2	< 4	< 1	< 2	< 2	< 3	< 11	< 1	< 1	< 17	< 6
	OCT	< 1	< 2	< 4	< 1	< 3	< 2	< 3	< 13	< 1	< 1	< 19	< 6
	NOV	< 2	< 2	< 5	< 2	< 4	< 2	< 4	< 15	< 2	< 2	< 24	< 8
	DEC	< 1	< 2	< 4	< 1	< 3	< 2	< 3	< 3	< 1	< 1	< 23	< 8

C-2

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

TABLE C-II.1 CONCENTRATIONS OF TRITIUM IN GROUND/WELL WATER SAMPLES COLLECTED IN THE VICINITY OF LASALLE COUNTY STATION, 2005

RESULTS IN UNITS OF PCI/LITER \pm 2 SIGMA

COLLECTION PERIOD	L-27	L-28
JAN-MAR	< 200	< 200
APR-JUN	< 200	< 200
JUL-SEP	< 166	< 173
OCT-DEC	< 186	< 160

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

TABLE C-II.2 CONCENTRATIONS OF GAMMA EMITTERS IN GROUND/WELL WATER SAMPLES COLLECTED IN THE VICINITY OF LASALLE COUNTY STATION, 2005

RESULTS IN UNITS OF PCI/LITER ± 2 SIGMA

STC	COLLECTION PERIOD	MN-54	CO-58	FE-59	CO-60	ZN-65	NB-95	ZR-95	CS-134	CS-137	BA-140	LA-140
L-27	JAN	< 15	< 15	< 30	< 15	< 30	< 15	< 30	< 15	< 18	< 60	< 15
	APR	< 15	< 15	< 30	< 15	< 30	< 15	< 30	< 15	< 18	< 60	< 15
	07/14/05	< 4	< 7	< 11	< 5	< 11	< 6	< 11	< 5	< 5	< 29	< 9
	10/13/05	< 6	< 6	< 11	< 7	< 11	< 7	< 12	< 5	< 7	< 36	< 7
L-28	JAN	< 15	< 15	< 30	< 15	< 30	< 15	< 30	< 15	< 18	< 60	< 15
	APR	< 15	< 15	< 30	< 15	< 30	< 15	< 30	< 15	< 18	< 60	< 15
	07/14/05	< 6	< 5	< 12	< 7	< 14	< 7	< 11	< 5	< 5	< 32	< 10
	10/13/05	< 5	< 5	< 11	< 5	< 9	< 4	< 8	< 4	< 5	< 26	< 10

C4

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

TABLE C-III.1

CONCENTRATIONS OF GAMMA EMITTERS IN FISH SAMPLES COLLECTED
IN THE VICINITY OF LASALLE COUNTY POWER STATION, 2005

RESULTS IN UNITS OF PCI/KG WET ± 2 SIGMA

STC	COLLECTION PERIOD	MN-54	CO-58	FE-59	CO-60	ZN-65	ZRNB-95	CS-134	CS-137	BALA-140
L-34										
Largemouth Bass	05/17/05	< 130	< 130	< 260	< 130	< 260	< 200	< 100	< 100	< 300
Smallmouth Bass	05/17/05	< 130	< 130	< 260	< 130	< 260	< 200	< 100	< 100	< 300
Smallmouth Bass	10/26/05	< 26	< 25	< 71	< 32	< 94	< 33	< 24	< 39	< 84
Bluegill	10/26/05	< 60	< 75	< 142	< 76	< 148	< 81	< 59	< 86	< 120
L-35										
Channel Catfish	05/17/05	< 130	< 130	< 260	< 130	< 260	< 200	< 100	< 100	< 300
Smallmouth Buffalo	05/17/05	< 130	< 130	< 260	< 130	< 260	< 200	< 100	< 100	< 300
Carp	10/26/05	< 55	< 59	< 143	< 73	< 113	< 73	< 63	< 57	< 120
Channel Catfish	10/26/05	< 34	< 40	< 69	< 24	< 64	< 31	< 31	< 42	< 102
L-36										
Channel Catfish	05/17/05	< 130	< 130	< 260	< 130	< 260	< 200	< 100	< 100	< 300
Freshwater Drum	05/17/05	< 130	< 130	< 260	< 130	< 260	< 200	< 100	< 100	< 300
Carp	10/26/05	< 62	< 69	< 108	< 58	< 131	< 87	< 48	< 58	< 126
Channel Catfish	10/26/05	< 38	< 34	< 97	< 24	< 75	< 47	< 36	< 39	< 71

C-5

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

**TABLE C-IV.1 CONCENTRATIONS OF GAMMA EMITTERS IN SEDIMENT SAMPLES
COLLECTED IN THE VICINITY OF LASALLE COUNTY STATION, 2005**

RESULTS IN UNITS OF PCI/KG DRY ± 2 SIGMA

STC	COLLECTION PERIOD	MN-54	CO-58	FE-59	CO-60	ZN-65	ZRNB-95	CS-134	CS-137	BALA-140
L-40	05/19/05	< 150	< 100	< 600	< 100	< 600	< 200	< 150	< 180	< 600
	10/06/05	< 53	< 50	< 116	< 59	< 130	< 90	< 43	< 59	< 81
L-41	05/19/05	< 150	< 100	< 600	< 100	< 600	< 200	< 150	< 180	< 600
	10/06/05	< 86	< 84	< 180	< 84	< 147	< 144	< 79	< 100	< 135

C-6

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

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

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

WEEK	GROUP I		GROUP II		GROUP III			GROUP IV	
	L-03	L-05	L-01	L-06	L-04	L-07	L-08	L-11	L-10
1	28 ± 4	29 ± 3	29 ± 4	26 ± 3	(1)	(1)	(1)	(1)	27 ± 4
2	29 ± 4	28 ± 4	22 ± 4	24 ± 4					29 ± 4
3	38 ± 4	36 ± 4	37 ± 4	38 ± 4					42 ± 4
4	25 ± 3	27 ± 3	27 ± 3	26 ± 3					32 ± 4
5	24 ± 4	22 ± 4	25 ± 4	26 ± 4					27 ± 4
6	26 ± 4	29 ± 4	24 ± 4	24 ± 4					28 ± 4
7	22 ± 3	22 ± 3	25 ± 4	25 ± 4					23 ± 4
8	28 ± 4	26 ± 4	28 ± 4	30 ± 4					29 ± 4
9	30 ± 4	25 ± 4	23 ± 4	31 ± 4					29 ± 4
10	29 ± 4	23 ± 4	36 ± 4	23 ± 4					25 ± 4
11	17 ± 3	19 ± 3	16 ± 3	22 ± 3					23 ± 3
12	15 ± 3	16 ± 3	17 ± 3	14 ± 3					18 ± 3
13	19 ± 3	22 ± 3	22 ± 3	27 ± 3					23 ± 3
14	24 ± 4	27 ± 4	23 ± 4	23 ± 4					24 ± 4
15	20 ± 4	19 ± 4	22 ± 4	21 ± 4					19 ± 3
16	23 ± 4	24 ± 4	23 ± 4	38 ± 4					30 ± 4
17	17 ± 3	14 ± 3	18 ± 4	16 ± 3					16 ± 3
18	23 ± 4	21 ± 4	21 ± 4	22 ± 4					23 ± 4
19	31 ± 4	28 ± 4	32 ± 4	32 ± 4					30 ± 4
20	17 ± 3	16 ± 3	16 ± 3	16 ± 3					20 ± 3
21	18 ± 3	14 ± 3	15 ± 3	18 ± 4					13 ± 3
22	16 ± 3	17 ± 3	21 ± 3	18 ± 3					22 ± 4
23	25 ± 4	22 ± 4	24 ± 4	20 ± 4					22 ± 4
24	14 ± 3	16 ± 3	17 ± 4	17 ± 3					15 ± 3
25	18 ± 3	18 ± 3	16 ± 3	16 ± 3					20 ± 4
26	45 ± 4	43 ± 4	43 ± 4	38 ± 4					47 ± 4
27	14 ± 5	9 ± 4	12 ± 5	13 ± 5	8 ± 4	13 ± 5	9 ± 4	10 ± 4	15 ± 5
28	19 ± 5	20 ± 5	18 ± 5	24 ± 5	18 ± 5	22 ± 5	21 ± 5	20 ± 5	21 ± 5
29	21 ± 5	17 ± 5	21 ± 5	18 ± 5	17 ± 5	22 ± 5	17 ± 5	26 ± 5	21 ± 5
30	10 ± 4	17 ± 5	10 ± 4	15 ± 5	12 ± 5	12 ± 5	10 ± 4	12 ± 5	13 ± 5
31	20 ± 5	19 ± 5	19 ± 5	21 ± 5	20 ± 5	23 ± 5	14 ± 5	22 ± 5	21 ± 6
32	21 ± 5	24 ± 6	22 ± 5	21 ± 7	21 ± 5	27 ± 6	27 ± 6	28 ± 6	35 ± 6
33	23 ± 5	18 ± 5	23 ± 5	22 ± 6	22 ± 5	20 ± 5	21 ± 5	27 ± 5	21 ± 5
34	7 ± 4	11 ± 4	11 ± 4	9 ± 4	11 ± 4	7 ± 4	9 ± 4	10 ± 4	11 ± 4
35	21 ± 5	22 ± 5	22 ± 5	27 ± 5	23 ± 5	27 ± 5	25 ± 5	26 ± 5	26 ± 5
36	21 ± 5	25 ± 6	30 ± 6	26 ± 5	23 ± 5	25 ± 6	20 ± 5	22 ± 5	27 ± 6
37	37 ± 5	42 ± 6	41 ± 5	37 ± 5	41 ± 6	38 ± 6	45 ± 6	47 ± 6	43 ± 6
38	16 ± 5	20 ± 5	16 ± 5	20 ± 5	18 ± 5	21 ± 5	19 ± 5	21 ± 5	20 ± 5
39	15 ± 4	19 ± 5	18 ± 5	19 ± 5	14 ± 4	24 ± 5	15 ± 4	19 ± 5	26 ± 5
40	19 ± 5	19 ± 5	21 ± 5	23 ± 5	19 ± 5	18 ± 4	16 ± 4	22 ± 5	24 ± 5
41	10 ± 4	11 ± 4	11 ± 4	9 ± 4	12 ± 4	10 ± 4	11 ± 4	12 ± 4	11 ± 4
42	17 ± 5	21 ± 5	18 ± 5	18 ± 4	26 ± 5	20 ± 5	21 ± 5	24 ± 5	21 ± 5
43	10 ± 4	12 ± 4	12 ± 4	14 ± 4	13 ± 4	10 ± 4	15 ± 4	18 ± 4	10 ± 4
44	27 ± 5	21 ± 4	19 ± 4	24 ± 5	24 ± 5	27 ± 5	24 ± 4	21 ± 4	26 ± 5
45	32 ± 5	30 ± 5	30 ± 5	31 ± 5	31 ± 5	34 ± 5	30 ± 5	33 ± 6	36 ± 6
46	12 ± 4	17 ± 4	15 ± 4	16 ± 4	11 ± 4	17 ± 4	18 ± 4	21 ± 5	18 ± 4
47	24 ± 5	22 ± 5	21 ± 5	23 ± 5	23 ± 5	28 ± 5	21 ± 5	24 ± 5	25 ± 5
48	19 ± 4	18 ± 4	15 ± 4	15 ± 4	15 ± 4	17 ± 4	14 ± 4	17 ± 4	15 ± 4
49	25 ± 5	27 ± 5	27 ± 5	34 ± 5	27 ± 5	32 ± 5	29 ± 5	31 ± 5	26 ± 5
50	29 ± 5	27 ± 4	26 ± 4	33 ± 5	27 ± 4	29 ± 5	36 ± 5	34 ± 5	31 ± 5
51	37 ± 5	42 ± 6	37 ± 5	42 ± 6	43 ± 6	45 ± 6	46 ± 6	48 ± 6	41 ± 6
52	35 ± 5	25 ± 5	27 ± 5	26 ± 5	27 ± 5	32 ± 5	35 ± 5	30 ± 5	28 ± 5
MEAN	22 ± 16	22 ± 15	22 ± 15	23 ± 15	21 ± 17	23 ± 18	22 ± 20	24 ± 19	24 ± 16

(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 AIR PARTICULATE SAMPLES COLLECTED IN THE VICINITY OF LASALLE COUNTY STATION, 2005

GROUP I - ONSITE LOCATIONS				GROUP II - NEAR SITE LOCATIONS				GROUP III - FAR FIELD LOCATIONS				GROUP IV - CONTROL LOCATIONS			
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
12/30/04 - 02/03/05	22	38	29 ± 10	12/30/04 - 02/03/05	22	38	28 ± 11	12/30/04 - 02/03/05	(1)	(1)	(1)	12/30/04 - 02/03/05	27	42	31 ± 13
02/03/05 - 03/03/05	22	30	26 ± 6	02/03/05 - 03/03/05	23	31	27 ± 6	02/03/05 - 03/03/05				02/03/05 - 03/03/05	23	29	27 ± 7
03/03/05 - 03/31/05	15	22	18 ± 5	03/03/05 - 03/31/05	14	27	20 ± 10	03/03/05 - 03/31/05				03/03/05 - 03/31/05	18	23	21 ± 6
03/31/05 - 04/28/05	14	24	20 ± 7	03/31/05 - 04/28/05	16	38	23 ± 16	03/31/05 - 04/28/05				03/31/05 - 04/28/05	16	30	22 ± 15
04/28/05 - 06/02/05	14	31	20 ± 11	04/28/05 - 06/02/05	15	32	21 ± 12	04/28/05 - 06/02/05				04/28/05 - 06/02/05	13	30	22 ± 12
06/02/05 - 06/30/05	14	45	25 ± 24	06/02/05 - 06/30/05	16	43	24 ± 21	06/02/05 - 06/30/05				06/02/05 - 06/30/05	15	47	26 ± 29
06/30/05 - 07/28/05	9	21	16 ± 9	06/30/05 - 07/28/05	10	24	16 ± 10	06/30/05 - 07/28/05	8	26	16 ± 11	06/30/05 - 07/28/05	13	21	17 ± 9
07/28/05 - 09/01/05	7	24	18 ± 11	07/28/05 - 09/01/05	9	27	20 ± 11	07/28/05 - 09/01/05	7	28	21 ± 13	07/28/05 - 09/01/05	11	35	23 ± 18
09/01/05 - 09/29/05	15	42	24 ± 20	09/01/05 - 09/29/05	16	41	26 ± 18	09/01/05 - 09/29/05	14	47	26 ± 21	09/01/05 - 09/29/05	20	43	29 ± 19
09/29/05 - 11/03/05	10	27	17 ± 12	09/29/05 - 11/03/05	9	24	17 ± 11	09/29/05 - 11/03/05	10	27	18 ± 11	09/29/05 - 11/03/05	10	26	18 ± 15
11/03/05 - 12/01/05	12	32	22 ± 13	11/03/05 - 12/01/05	15	31	21 ± 13	11/03/05 - 12/01/05	11	34	22 ± 15	11/03/05 - 12/01/05	15	36	24 ± 19
12/01/05 - 12/29/05	25	42	31 ± 12	12/01/05 - 12/29/05	26	42	31 ± 12	12/01/05 - 12/29/05	27	48	34 ± 15	12/01/05 - 12/29/05	26	41	32 ± 13
12/30/04 - 12/29/05	7	45	22 ± 9	12/30/04 - 12/29/05	9	43	23 ± 9	12/30/04 - 12/29/05	7	48	23 ± 13	12/30/04 - 12/29/05	10	47	24 ± 9

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(1) SEE PROGRAM CHANGES SECTION FOR EXPLANATION

TABLE C-V.3 CONCENTRATIONS OF GAMMA EMITTERS IN AIR PARTICULATE SAMPLES COLLECTED IN THE VICINITY OF LASALLE COUNTY STATION, 2005

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

STC	COLLECTION PERIOD	MN-54	CO-58	FE-59	CO-60	ZN-65	ZRNB-95	CS-134	CS-137	BALA140
L-01	03/31/05	< 10	< 10	< 15	< 10	< 40	< 10	< 50	< 60	< 25
	06/30/05	< 10	< 10	< 15	< 10	< 40	< 10	< 50	< 60	< 25
	06/30/05	< 0.8	< 2.1	< 8.8		< 3.4	< 2.4	< 1.1	< 1.5	< 243
	09/29/05	< 2.9	< 4.7	< 5.2	< 3.4	< 6.6	< 4.7	< 2.6	< 2.6	< 70
L-03	03/31/05	< 10	< 10	< 15	< 10	< 40	< 10	< 50	< 60	< 25
	06/30/05	< 10	< 10	< 15	< 10	< 40	< 10	< 50	< 60	< 25
	06/30/05	< 1.7	< 3.6	< 13	< 1.6	< 5.4	< 4.7	< 1.4	< 1.8	< 432
	09/29/05	< 2.4	< 3.4	< 14	< 2.7	< 6.9	< 4.3	< 2.4	< 2.4	< 118
L-04		(1)								
		(1)								
	06/30/05	< 1.1	< 2.9	< 7.5	< 1.2	< 3.3	< 2.4	< 1.3	< 1.1	< 326
	09/29/05	< 2.9	< 4.1	< 13	< 2.0	< 9.0	< 4.5	< 2.5	< 2.6	< 123
L-05	03/31/05	< 10	< 10	< 15	< 10	< 40	< 10	< 50	< 60	< 25
	06/30/05	< 10	< 10	< 15	< 10	< 40	< 10	< 50	< 60	< 25
	06/30/05	< 2.0	< 4.7	< 15	< 2.8	< 5.2	< 5.2	< 1.8	< 2.0	< 406
	09/29/05	< 3.2	< 3.2	< 16	< 3.4	< 7.4	< 6.0	< 3.1	< 2.7	< 124

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

(1) SEE PROGRAM CHANGES SECTION FOR EXPLANATION

TABLE C-V.3 CONCENTRATIONS OF GAMMA EMITTERS IN AIR PARTICULATE SAMPLES COLLECTED IN THE VICINITY OF LASALLE COUNTY STATION, 2005

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

STC	COLLECTION PERIOD	MN-54	CO-58	FE-59	CO-60	ZN-65	ZRNB-95	CS-134	CS-137	BALA140
L-06	03/31/05	< 10	< 10	< 15	< 10	< 40	< 10	< 50	< 60	< 25
	06/30/05	< 10	< 10	< 15	< 10	< 40	< 10	< 50	< 60	< 25
	06/30/05	< 3.0	< 6.4	< 13	< 4.5	< 8.5	< 5.4	< 3.3	< 2.4	< 758
	09/29/05	< 3.1	< 6.2	< 16	< 3.4	< 9.2	< 6.4	< 3.5	< 3.3	< 165
L-07	12/31/04	(1)								
	04/01/05	(1)								
	06/30/05	< 2.0	< 2.8	< 11	< 1.5	< 3.3	< 2.8	< 1.4	< 1.3	< 393
	09/29/05	< 4.0	< 4.6	< 17	< 2.5	< 8.1	< 5.0	< 2.4	< 2.9	< 168
L-08		(1)								
		(1)								
	06/30/05	< 1.7	< 2.3	< 12	< 1.1	< 2.6	< 2.8	< 1.3	< 1.2	< 190
	09/29/05	< 2.8	< 5.1	< 18	< 2.5	< 6.7	< 4.3	< 2.1	< 1.9	< 77
L-10	03/31/05	< 10	< 10	< 15	< 10	< 40	< 10	< 50	< 60	< 25
	06/30/05	< 10	< 10	< 15	< 10	< 40	< 10	< 50	< 60	< 25
	06/30/05	< 1.7	< 4.3	< 16	< 1.3	< 5.8	< 5.8	< 1.9	< 2.3	< 509
	09/29/05	< 2.6	< 4.1	< 13	< 2.9	< 5.0	< 5.2	< 2.4	< 2.1	< 116

C-10

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

(1) SEE PROGRAM CHANGES SECTION FOR EXPLANATION

TABLE C-V.3 CONCENTRATIONS OF GAMMA EMITTERS IN AIR PARTICULATE SAMPLES COLLECTED IN THE VICINITY OF LASALLE COUNTY STATION, 2005

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

STC	COLLECTION PERIOD	MN-54	CO-58	FE-59	CO-60	ZN-65	ZRNB-95	CS-134	CS-137	BALA140
L-11	03/31/05	(1)								
	06/30/05	(1)								
	06/30/05	< 1.7	< 2.9	< 14	< 2.6	< 5.6	< 2.9	< 1.0	< 1.2	< 385
	09/29/05	< 2.2	< 4.2	< 15	< 2.3	< 5.7	< 3.6	< 2.4	< 1.8	< 119

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

(1) SEE PROGRAM CHANGES SECTION FOR EXPLANATION

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

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

WEEK	GROUP I		GROUP II		GROUP III			GROUP IV	
	L-03	L-05	L-01	L-06	L-04	L-07	L-08	L-11	L-10
1					(1)	(1)	(1)	(1)	
2	< 7	< 7	< 7	< 7					< 7
3									
4	< 7	< 7	< 7	< 7					< 7
5									
6	< 7	< 7	< 7	< 7					< 7
7									
8	< 7	< 7	< 7	< 7					< 7
9									
10	< 7	< 7	< 7	< 7					< 7
11									
12	< 7	< 7	< 7	< 7					< 7
13									
14	< 7	< 7	< 7	< 7					< 7
15									
16	< 7	< 7	< 7	< 7					< 7
17									
18	< 7	< 7	< 7	< 7					< 7
19									
20	< 7	< 7	< 7	< 7					< 7
21									
22	< 7	< 7	< 7	< 7					< 7
23									
24	< 7	< 7	< 7	< 7					< 7
25									
26	< 7	< 7	< 7	< 7					< 7
27									
28	< 22	< 22	< 22	< 19	< 22	< 19	< 19	< 18	< 10
29									
30	< 26	< 26	< 25	< 14	< 25	< 21	< 20	< 21	< 21
31									
32	< 20	< 14	< 17	< 23	< 20	< 20	< 18	< 18	< 18
33									
34	< 25	< 25	< 25	< 18	< 25	< 23	< 23	< 23	< 23
35									
36	< 34	< 34	< 34	< 30	< 34	< 31	< 31	< 31	< 17
37									
38	< 22	< 22	< 22	< 16	< 22	< 31	< 30	< 30	< 30
39									
40	< 24	< 24	< 23	< 16	< 24	< 12	< 21	< 21	< 21
41									
42	< 33	< 33	< 33	< 32	< 33	< 32	< 32	< 32	< 32
43									
44	< 19	< 19	< 19	< 29	< 19	< 29	< 28	< 28	< 19
45									
46	< 29	< 29	< 29	< 16	< 28	< 33	< 33	< 32	< 33
47									
48	< 60	< 60	< 60	< 40	< 60	< 23	< 23	< 23	< 23
49									
50	< 16	< 17	< 17	< 13	< 17	< 14	< 13	< 13	< 10
51									
52	< 22	< 22	< 22	< 15	< 22	< 15	< 15	< 15	< 15

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

(1) SEE PROGRAM CHANGES SECTION FOR EXPLANATION

TABLE C-VII.1 CONCENTRATIONS OF I-131 IN MILK SAMPLES COLLECTED IN THE VICINITY OF LASALLE COUNTY STATION, 2005

RESULTS IN UNITS OF PCI/LITER ± 2 SIGMA

COLLECTION PERIOD	CONTROL DAIRY
	L-42
01/06/05	< 1.0
02/03/05	< 1.0
03/03/05	< 1.0
04/06/05	< 1.0
05/05/05	< 1.0
05/19/05	< 1.0
06/02/05	< 1.0
06/16/05	< 1.0
07/01/05	< 1.0
07/29/05	< 1.0
08/10/05	< 0.3
08/26/05	< 0.4
09/09/05	< 0.8
09/23/05	< 0.6
10/07/05	< 0.5
10/21/05	< 0.2
11/04/05	< 0.5
12/01/05	< 0.6

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

**TABLE C-VII.2 CONCENTRATIONS OF GAMMA EMITTERS IN MILK SAMPLES
COLLECTED IN THE VICINITY OF LASALLE COUNTY STATION, 2005**

RESULTS IN UNITS OF PCI/LITER ± 2 SIGMA

STC	COLLECTION PERIOD	MN-54	CO-58	FE-59	CO-60	ZN-65	ZRNB-95	CS-134	CS-137	BA-140	LA-140
L-42	01/06/05	< 10	< 10	< 15	< 10	< 15	< 10	< 15	< 18	< 60	< 15
	02/03/05	< 10	< 10	< 15	< 10	< 15	< 10	< 15	< 18	< 60	< 15
	03/03/05	< 10	< 10	< 15	< 10	< 15	< 10	< 15	< 18	< 60	< 15
	04/06/05	< 10	< 10	< 15	< 10	< 15	< 10	< 15	< 18	< 60	< 15
	05/05/05	< 10	< 10	< 15	< 10	< 15	< 10	< 15	< 18	< 60	< 15
	05/19/05	< 10	< 10	< 15	< 10	< 15	< 10	< 15	< 18	< 60	< 15
	06/02/05	< 10	< 10	< 15	< 10	< 15	< 10	< 15	< 18	< 60	< 15
	06/16/05	< 10	< 10	< 15	< 10	< 15	< 10	< 15	< 18	< 60	< 15
	07/01/05	< 10	< 10	< 15	< 10	< 15	< 10	< 15	< 18	< 60	< 15
	07/29/05	< 4	< 3	< 8	< 4	< 8	< 4	< 3	< 4	< 20	< 6
	08/10/05	< 5	< 3	< 9	< 4	< 10	< 4	< 4	< 4	< 19	< 6
	08/26/05	< 4	< 6	< 13	< 4	< 12	< 5	< 4	< 5	< 33	< 2
	09/09/05	< 6	< 6	< 13	< 6	< 13	< 6	< 5	< 5	< 33	< 10
	09/23/05	< 5	< 7	< 14	< 7	< 15	< 7	< 5	< 7	< 38	< 10
10/07/05	< 4	< 5	< 13	< 4	< 13	< 5	< 4	< 5	< 25	< 8	
10/21/05	< 7	< 7	< 12	< 7	< 15	< 6	< 7	< 8	< 31	< 11	
11/04/05	< 6	< 6	< 11	< 8	< 15	< 6	< 6	< 7	< 33	< 10	
12/01/05	< 4	< 4	< 11	< 4	< 8	< 4	< 4	< 4	< 23	< 6	

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

TABLE C-VIII.1

**CONCENTRATIONS OF GAMMA EMITTERS IN FOOD PRODUCT SAMPLES
COLLECTED IN THE VICINITY OF LASALLE COUNTY STATION, 2005**

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	I-131	CS-134	CS-137	BALA140
L-QUAD 1 Cabbage	09/17/05	< 18	< 18	< 38	< 16	< 33	< 19	< 42	< 15	< 19	< 28
L-QUAD 1 Onions	09/17/05	< 9	< 8	< 14	< 13	< 19	< 11	< 18	< 8	< 8	< 18
	MEAN	13 \pm 13	13 \pm 14	26 \pm 34	15 \pm 5	26 \pm 20	15 \pm 12	30 \pm 34	11 \pm 10	13 \pm 15	23 \pm 14
L-QUAD 2 Onions	09/17/05	< 15	< 17	< 38	< 15	< 41	< 20	< 40	< 17	< 22	< 38
L-QUAD 2 Swiss Chard	09/17/05	< 8	< 10	< 23	< 11	< 26	< 11	< 21	< 10	< 11	< 11
	MEAN	12 \pm 10	13 \pm 10	31 \pm 21	13 \pm 7	33 \pm 21	15 \pm 12	30 \pm 28	14 \pm 10	16 \pm 15	25 \pm 38
L-QUAD 3 Beet Greens	09/10/05	< 16	< 18	< 45	< 15	< 38	< 19	< 56	< 14	< 15	< 32
L-QUAD 3 Beets	09/10/05	< 10	< 10	< 30	< 9	< 27	< 11	< 36	< 7	< 11	< 24
	MEAN	13 \pm 8	14 \pm 11	37 \pm 22	12 \pm 9	32 \pm 16	15 \pm 11	46 \pm 29	11 \pm 10	13 \pm 7	28 \pm 12
L-QUAD 4 Cabbage	09/10/05	< 11	< 11	< 26	< 11	< 26	< 11	< 36	< 9	< 10	< 18
L-QUAD 4 Onions	09/10/05	< 9	< 6	< 26	< 7	< 18	< 10	< 28	< 7	< 8	< 9
	MEAN	10 \pm 3	8 \pm 7	26 \pm 0	9 \pm 7	22 \pm 12	10 \pm 2	32 \pm 12	8 \pm 2	9 \pm 3	13 \pm 12
L-QUAD C Broccoli	09/17/05	< 21	< 24	< 48	< 27	< 59	< 25	< 54	< 22	< 24	< 37
L-QUAD C Potatoes	09/17/05	< 15	< 16	< 34	< 16	< 37	< 17	< 32	< 13	< 16	< 26
	MEAN	18 \pm 9	20 \pm 11	41 \pm 19	21 \pm 15	48 \pm 30	21 \pm 10	43 \pm 31	17 \pm 12	20 \pm 10	31 \pm 16

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TABLE C-IX.1 QUARTERLY TLD RESULTS FOR LASALLE COUNTY STATION, 2005

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

STATION CODE	MEAN ± 2 S. D.	JAN - MAR	APR-JUN	JUL-SEP	OCT-DEC
L-01-1	26.8 ± 11	31	22	22	32
L-01-2	26.8 ± 7.9	30	22	25	30
L-03-1	26.5 ± 7.0	30	23	24	29
L-03-2	27.0 ± 6.3	31	25	24	28
L-04-1	26.0 ± 7.1	29	24	22	29
L-04-2	24.0 ± 7.1	28	21	21	26
L-05-1	26.5 ± 9.3	30	23	22	31
L-05-2	25.0 ± 10	29	21	20	30
L-06-1	27.3 ± 5.5	30	24	26	29
L-06-2	27.0 ± 5.9	29	24	25	30
L-07-1	25.8 ± 8.9	29	21	23	30
L-07-2	25.8 ± 7.2	28	21	25	29
L-08-1	26.3 ± 6.4	29	23	24	29
L-08-2	26.8 ± 5.5	28	24	25	30
L-10-1	24.0 ± 7.1	27	22	20	27
L-10-2	23.3 ± 6.6	27	21	20	25
L-11-1	23.3 ± 9.8	28	19	19	27
L-11-2	22.8 ± 8.7	27	19	19	26
L-101-1	26.3 ± 8.2	29	21	25	30
L-101-2	27.0 ± 8.5	30	22	25	31
L-102-1	28.3 ± 10	31	23	25	34
L-102-2	29.5 ± 6.0	32	26	28	32
L-103-1	27.5 ± 7.4	30	26	23	31
L-103-2	27.0 ± 7.8	29	22	26	31
L-104-1	25.8 ± 8.7	29	22	22	30
L-104-2	25.5 ± 9.3	29	21	22	30
L-105-1	30.0 ± 5.9	32	28	27	33
L-105-2	28.3 ± 7.0	32	24	27	30
L-106-1	25.8 ± 7.5	29	23	22	29
L-106-2	25.8 ± 7.9	29	21	24	29
L-107-1	27.0 ± 8.5	31	22	25	30
L-107-2	27.3 ± 5.3	29	25	25	30
L-108-1	24.3 ± 5.0	27	22	24	29
L-108-2	22.0 ± 2.8	21	22	21	24
L-109-1	26.5 ± 5.8	27	23	26	30
L-109-2	27.0 ± 4.9	28	25	25	30
L-110-1	26.5 ± 7.7	25	23	26	32
L-110-2	28.0 ± 4.9	29	26	26	31
L-111B-1	27.5 ± 6.2	25	27	26	32
L-111B-2	28.0 ± 5.9	30	26	25	31
L-112-1	24.8 ± 7.5	24	21	24	30
L-112-2	27.5 ± 4.8	29	26	25	30
L-113A-1	28.0 ± 4.3	28	26	27	31
L-113A-2	27.5 ± 4.8	29	26	25	30
L-114-1	27.5 ± 8.2	31	23	25	31
L-114-2	27.0 ± 4.0	26	26	26	30
L-115-1	22.8 ± 4.1	24	21	21	25
L-115-2	24.5 ± 6.0	28	22	22	26
L-116-1	22.8 ± 4.1	24	21	21	25
L-116-2	24.3 ± 6.0	25	21	23	28

TABLE C-IX.1 QUARTERLY TLD RESULTS FOR LASALLE COUNTY STATION, 2005

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

STATION CODE	MEAN ± 2 S. D.	JAN - MAR	APR-JUN	JUL-SEP	OCT-DEC
L-201-3	22.0 ± 4.3	21	22	20	25
L-201-4	26.3 ± 4.1	26	24	26	29
L-202-3	24.3 ± 8.7	28	20	21	28
L-202-4	24.8 ± 7.9	28	20	23	28
L-203-1	24.5 ± 6.2	24	23	22	29
L-203-2	25.3 ± 8.2	28	20	24	29
L-204-1	28.3 ± 8.2	32	23	27	31
L-204-2	27.3 ± 8.2	31	22	26	30
L-205-1	27.0 ± 8.5	30	22	25	31
L-205-2	27.8 ± 6.6	31	24	26	30
L-205-3	27.8 ± 5.5	29	25	26	31
L-205-4	26.0 ± 5.9	27	22	26	29
L-206-1	27.0 ± 4.9	29	24	26	29
L-206-2	25.8 ± 6.0	25	23	25	30
L-207-1	25.0 ± 5.9	28	21	25	26
L-207-2	23.8 ± 4.4	23	21	25	26
L-208-1	25.8 ± 6.0	25	23	25	30
L-208-2	25.8 ± 8.2	25	21	26	31
L-209-1	25.5 ± 7.4	25	21	26	30
L-209-2	26.0 ± 6.7	30	22	25	27
L-210-1	27.5 ± 5.0	27	25	27	31
L-210-2	28.0 ± 5.9	25	27	28	32
L-211-1	26.3 ± 5.0	26	23	27	29
L-211-2	26.5 ± 6.6	24	24	27	31
L-212-1	27.5 ± 5.3	28	25	26	31
L-212-2	26.5 ± 7.4	25	25	24	32
L-213-3	24.8 ± 6.6	24	21	25	29
L-213-4	24.5 ± 7.4	22	21	26	29
L-214-3	26.0 ± 5.3	24	25	(1)	29
L-214-4	25.0 ± 2.8	24	24	25	27
L-215-3	26.0 ± 7.5	25	22	26	31
L-215-4	27.8 ± 5.0	28	25	27	31
L-216-3	27.0 ± 5.7	25	25	27	31
L-216-4	24.5 ± 2.6	23	24	26	25

(1) SEE PROGRAM EXCEPTIONS SECTION FOR EXPLANATION

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

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

STATION CODE	INNER RING ± 2 S. D.	OUTER RING	OTHER	CONTROL
JAN-MAR	28.2 ± 5.4	26.3 ± 5.5	29.1 ± 2.3	27.0 ± 0.0
APR-JUN	23.5 ± 4.4	22.9 ± 3.6	22.3 ± 3.6	21.5 ± 1.4
JUL-SEP	24.5 ± 3.8	25.3 ± 3.5	22.9 ± 4.5	20.0 ± 0.0
OCT-DEC	32.0 ± 4.4	29.3 ± 3.8	29.1 ± 3.3	26.0 ± 2.8

TABLE C-IX.3 SUMMARY OF THE AMBIENT DOSIMETRY PROGRAM FOR LASALLE COUNTY STATION, 2005

RESULTS IN UNITS OF MILLI-ROENTGEN/QUARTER

LOCATION	SAMPLES ANALYZED	PERIOD MINIMUM	PERIOD MAXIMUM	PERIOD MEAN ± 2 S. D.
INNER RING	128	21	34	26.5 ± 6.9
OUTER RING	135	20	32	26.0 ± 6.2
OTHER	64	19	32	25.8 ± 7.4
CONTROL	8	20	27	23.6 ± 6.4

INNER RING - L-101-1, L-101-2, L-102-1, L-102-2, L-103-1, L-103-2, L-104-1, L-104-2, L-105-1, L-105-2, L-106-1, L-106-2, L-107-1, L-107-2, L-108-1, L-108-2, L-109-1, L-109-2, L-110-1, L-110-2, L-111b-1, L-111b-2

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

OTHER STATIONS - L-01-1, L-01-2, L-03-1, L-03-2, L-04-1, L-04-2, L-05-1, L-05-2, L-06-1, L-06-2, L-07-1, L-07-2, L-08-1, L-08-2, L-11-1, L-11-2

CONTROL STATIONS = L-10-1, L-10-2

TABLE C-X.1

SUMMARY OF COLLECTION DATES FOR SAMPLES COLLECTED IN THE VICINITY OF LASALLE COUNTY STATION, 2005

SURFACE WATER (TRITIUM LIQUID SCINTILLATION)

COLLECTION PERIOD	L-21	L-40
JAN-MAR	01/06/05 - 03/31/05	01/06/05 - 03/31/05
APR-JUN	04/07/05 - 06/30/05	04/07/05 - 06/30/05
JUL-SEP	07/07/05 - 09/29/05	07/07/05 - 09/29/05
OCT-DEC	10/06/05 - 12/29/05	10/06/05 - 12/29/05

SURFACE WATER (GROSS BETA & GAMMA SPECTROSCOPY)

COLLECTION PERIOD	L-21	L-40
JAN	01/06/05 - 01/27/05	01/06/05 - 01/27/05
FEB	02/03/05 - 02/24/05	02/03/05 - 02/24/05
MAR	03/03/05 - 03/31/05	03/03/05 - 03/31/05
APR	04/07/05 - 04/28/05	04/07/05 - 04/28/05
MAY	05/05/05 - 05/26/05	05/05/05 - 05/26/05
JUN	06/02/05 - 06/30/05	06/02/05 - 06/30/05
JUL	07/07/05 - 07/28/05	07/07/05 - 07/28/05
AUG	08/04/05 - 08/25/05	08/04/05 - 08/25/05
SEP	09/01/05 - 09/29/05	09/01/05 - 09/29/05
OCT	10/06/05 - 10/27/05	10/06/05 - 10/27/05
NOV	11/03/05 - 11/23/05	11/03/05 - 11/23/05
DEC	12/01/05 - 12/29/05	12/01/05 - 12/29/05

GROUNDWELL WATER (TRITIUM & GAMMA SPECTROSCOPY)

COLLECTION PERIOD	L-27	L-28
JAN-MAR	01/13/05	01/13/05
APR-JUN	04/13/05	04/13/05
JUL-SEP	07/14/05	07/14/05
OCT-DEC	10/13/05	10/13/05

TABLE C-X.1 SUMMARY OF COLLECTION DATES FOR SAMPLES COLLECTED IN THE VICINITY OF LASALLE COUNTY STATION, 2005

AIR PARTICULATE (GAMMA SPECTROSCOPY)

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

AIR PARTICULATE (GAMMA SPECTROSCOPY)

COLLECTION PERIOD	L-07	L-08	L-10	L-11
JAN-MAR	12/30/04 - 03/31/05	12/30/04 - 03/31/05	12/30/04 - 03/31/05	12/30/04 - 03/31/05
APR-JUN	03/31/05 - 06/30/05	03/31/05 - 06/30/05	03/31/05 - 06/30/05	03/31/05 - 06/30/05
JUL-SEP	06/30/05 - 09/29/05	06/30/05 - 09/29/05	06/30/05 - 09/29/05	06/30/05 - 09/29/05
OCT-DEC	09/29/05 - 12/29/05	09/29/05 - 12/29/05	09/29/05 - 12/29/05	09/29/05 - 12/29/05

TABLE C-X.1 SUMMARY OF COLLECTION DATES FOR SAMPLES COLLECTED IN THE VICINITY OF LASALLE COUNTY STATION, 2005

AIR PARTICULATE (GROSS BETA & I-131)

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

* AIR IODINE SAMPLES COLLECTED BIWEEKLY

TABLE C-X.1 SUMMARY OF COLLECTION DATES FOR SAMPLES COLLECTED IN THE VICINITY OF LASALLE COUNTY STATION, 2005

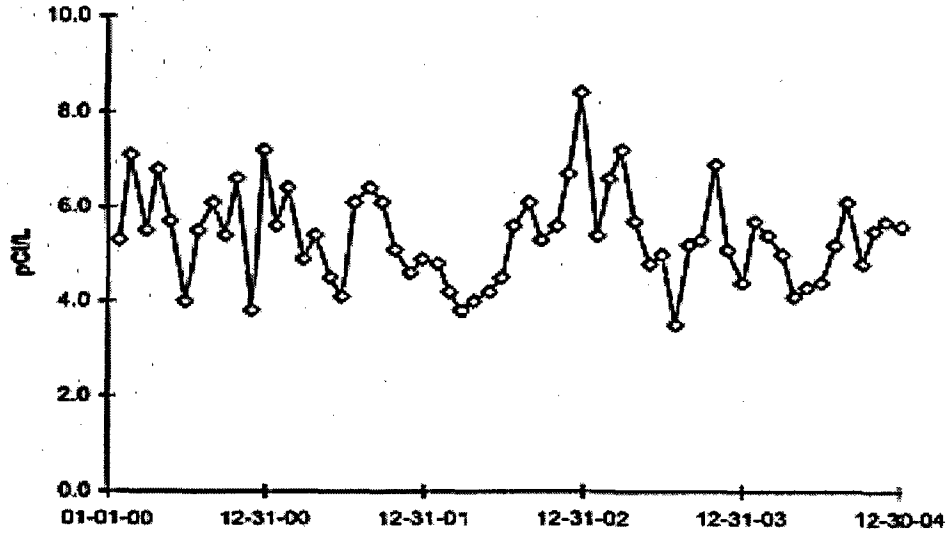
AIR PARTICULATE (GROSS BETA & I-131)

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

* AIR IODINE SAMPLES COLLECTED BIWEEKLY

FIGURE C-1
Surface Water - Gross Beta - Station L-21 and L-40
Collected in the Vicinity of LCS, 2000 - 2004

L-21 Illinois River at Seneca



L-40 Illinois River Downstream

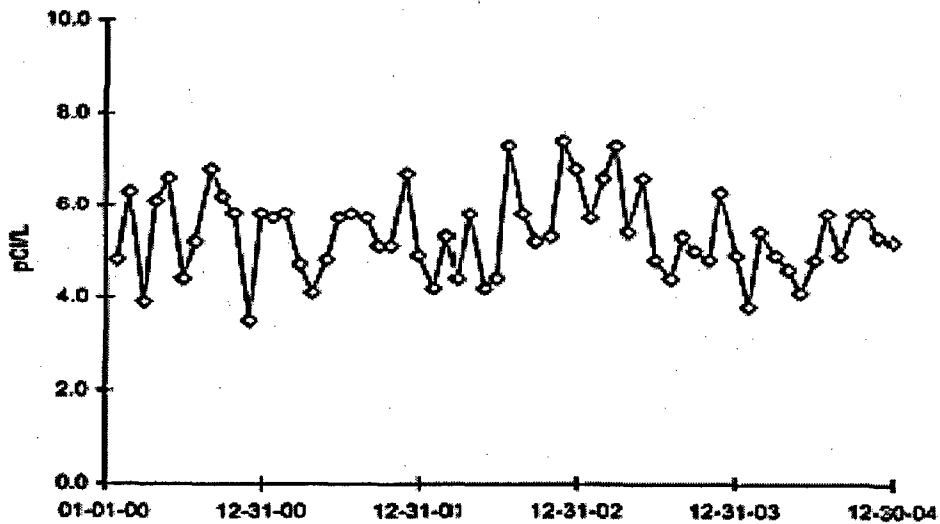
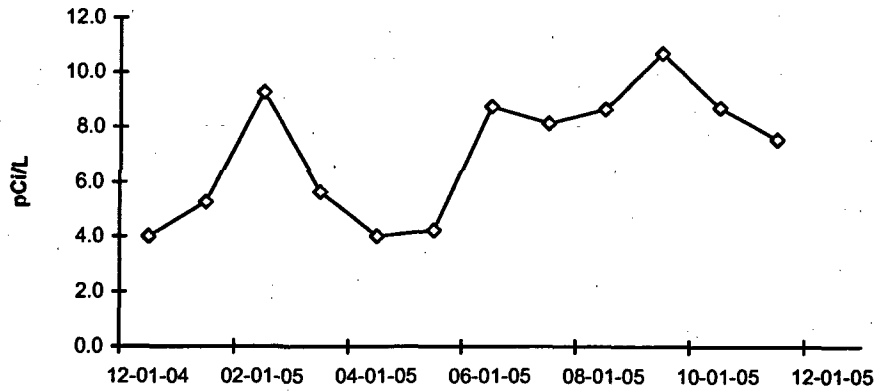
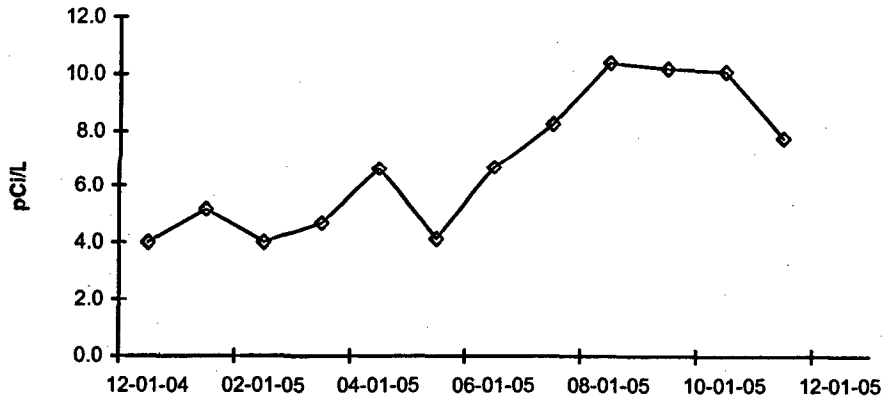


FIGURE C-1 (cont.)
Surface Water - Gross Beta - Station L-21 and L-40
Collected in the Vicinity of LCS, 2005

L-21 Illinois River at Seneca



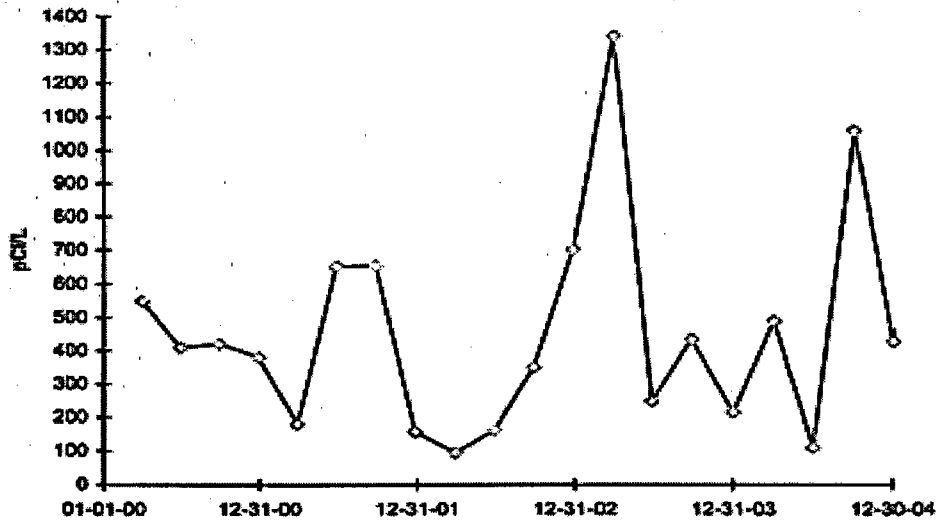
L-40 Illinois River Downstream



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

FIGURE C-2
Surface Water - Tritium - Station L-21 (C) and L-40
Collected in the Vicinity of LCS, 2000 - 2004

L-21(C) Illinois River at Seneca



L-40 Illinois River Downstream

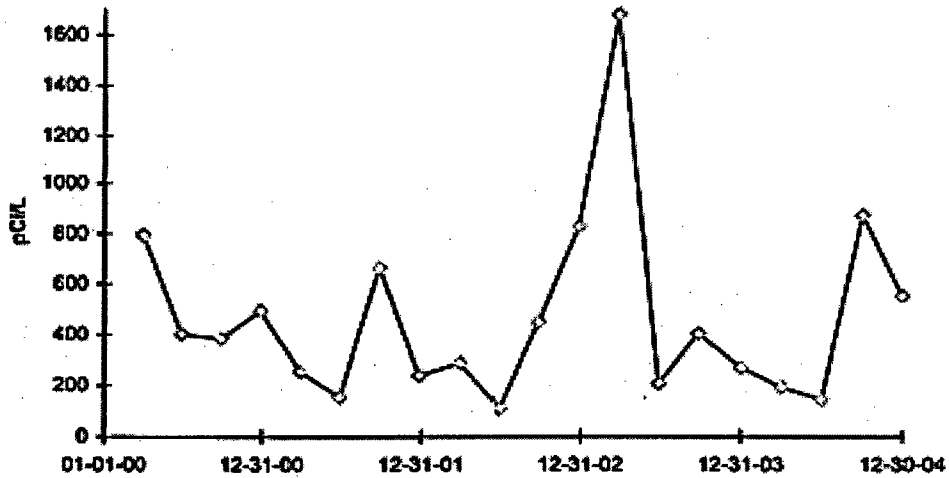
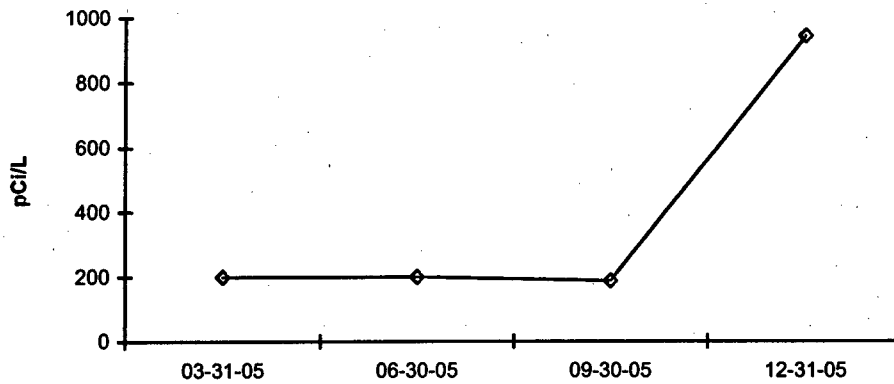
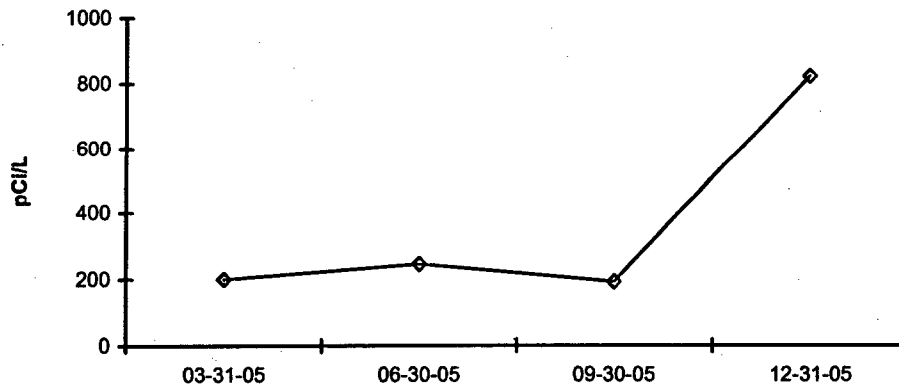


FIGURE C-2 (cont.)
Surface Water - Tritium - Station L-21 (C) and L-40
Collected in the Vicinity of LCS, 2005

L-21 Illinois River at Seneca



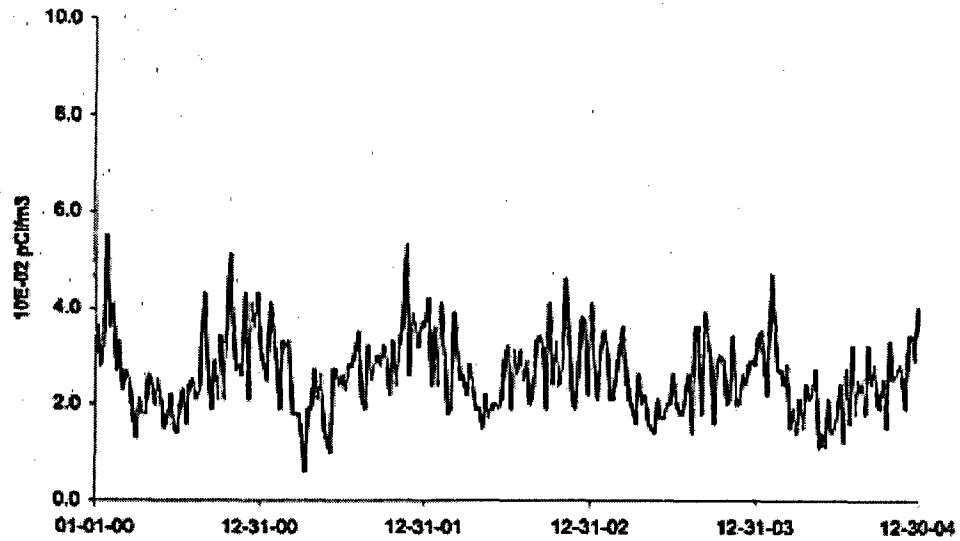
L-40 Illinois River Downstream



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

FIGURE C-3
Air Particulates - Gross Beta - Stations L-01 and L-03
Collected in the Vicinity of LCS, 2000 - 2004

L-01 Nearsite No. 1



L-03 Onsite No. 3

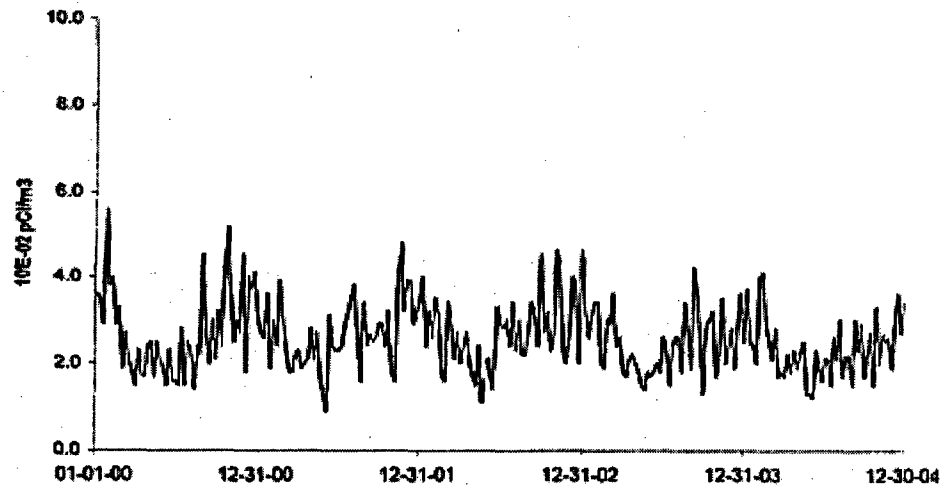
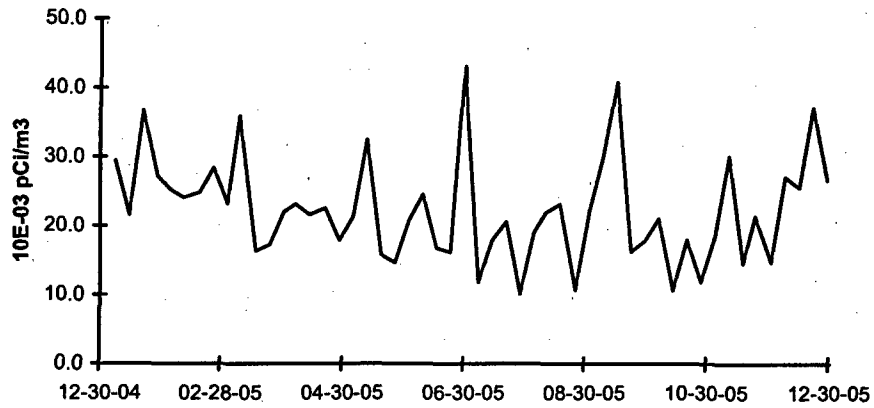
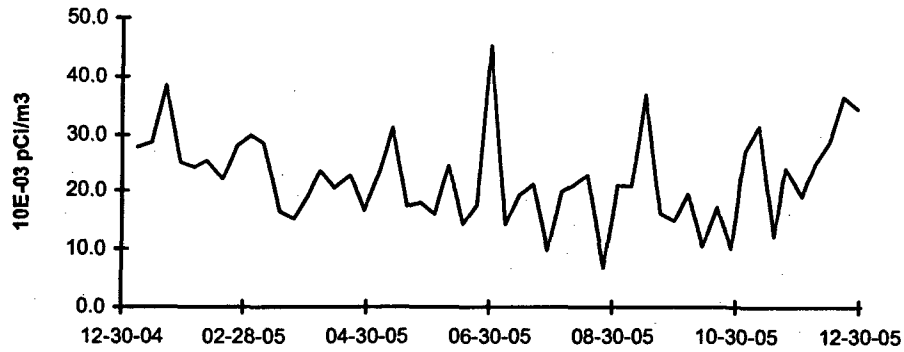


FIGURE C-3 (cont.)
Air Particulates - Gross Beta - Stations L-01 and L-03
Collected in the Vicinity of LCS, 2005

L-01 Nearsite No. 1

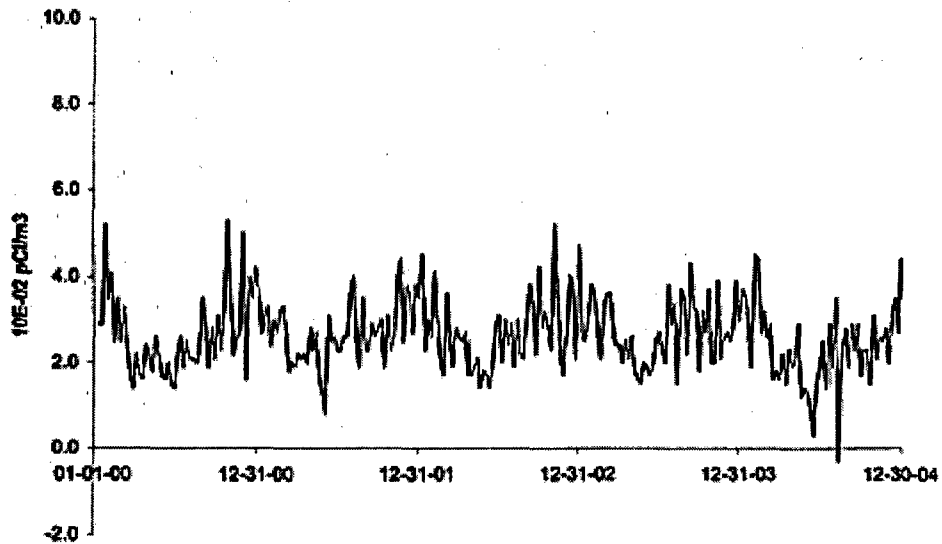


L-03 Onsite No. 3



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

FIGURE C-4
Air Particulates - Gross Beta - Stations L-05 and L-06
Collected in the Vicinity of LCS, 2000 - 2004
L-05 Onsite No. 5



L-06 Nearsite No. 6

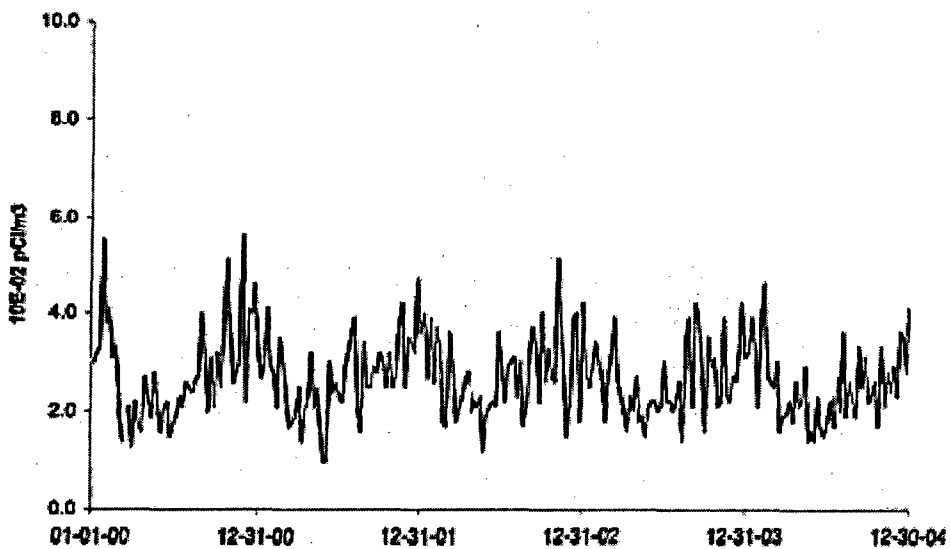
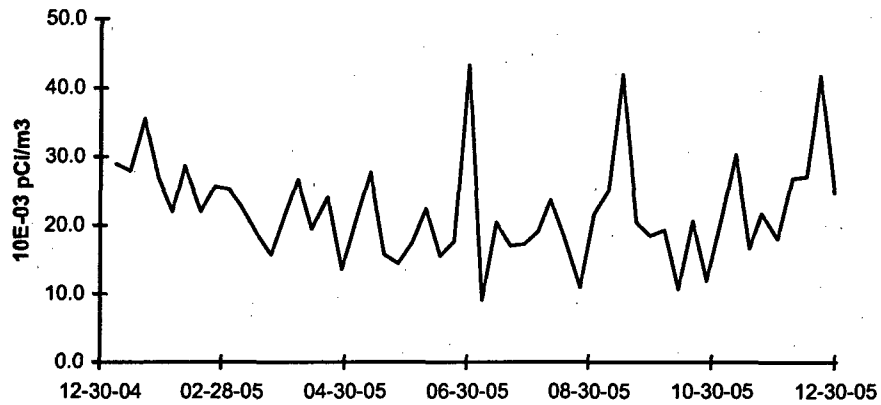
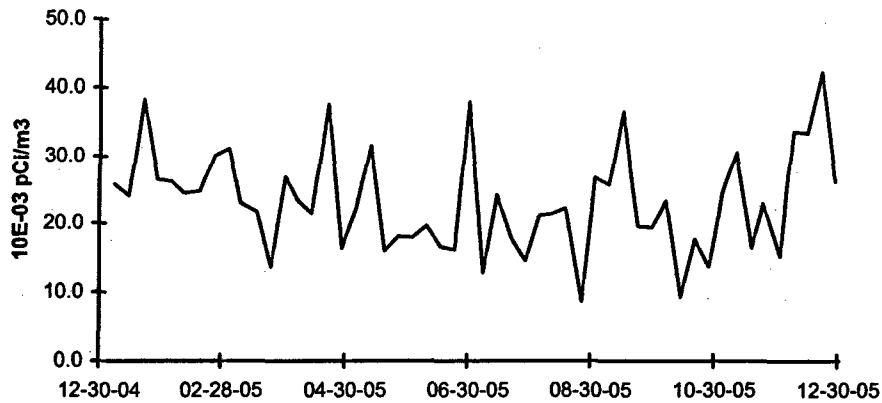


FIGURE C-4 (cont.)
Air Particulates - Gross Beta - Stations L-05 and L-06
Collected in the Vicinity of LCS, 2005

L-05 Onsite No. 5



L-06 Nearsite No. 6



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

FIGURE C-5
Air Particulates - Gross Beta - Station L-10 (C)
Collected in the Vicinity of LCS, 2000 - 2004
L-10 (C) Streator

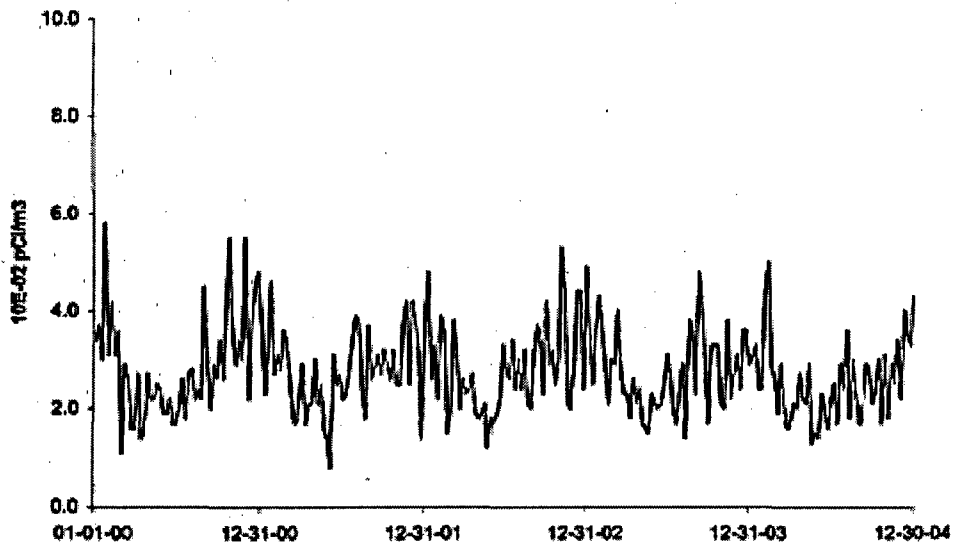
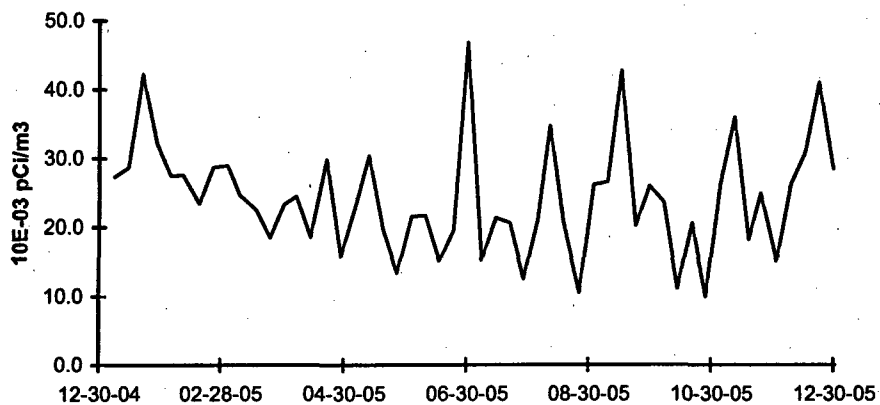


FIGURE C-5 (cont.)
Air Particulates - Gross Beta - Station L-10 (C)
Collected in the Vicinity of LCS, 2005

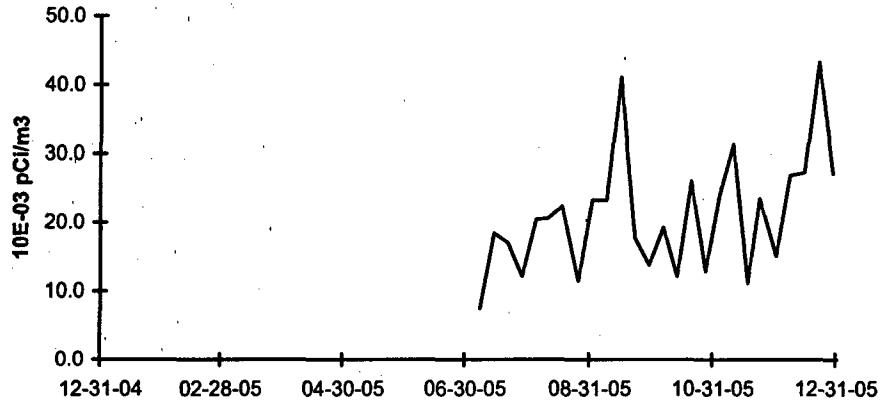
L-10 (C) Streator



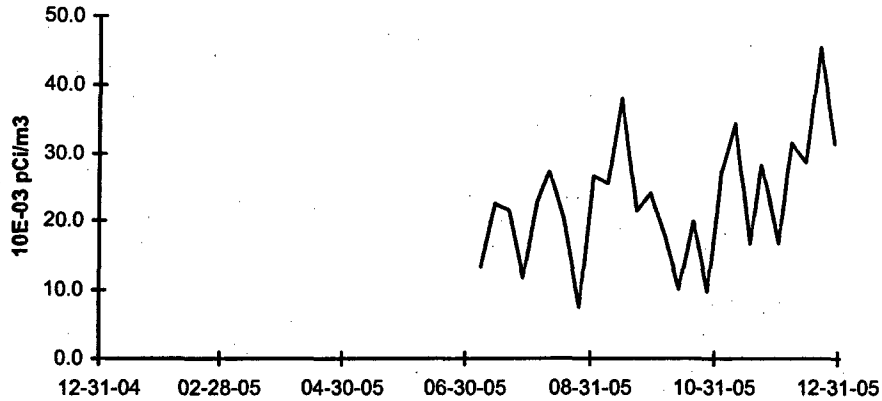
DUE TO VENDOR CHANGE, THE REPORTED UNITS CHANGED FROM E-02 PC/M3 TO E-03 PC/M3

FIGURE C-6
Air Particulates - Gross Beta - Stations L-04 and L-07
Collected in the Vicinity of LCS, 2005

L-04 Rte. 170



L-07 Seneca

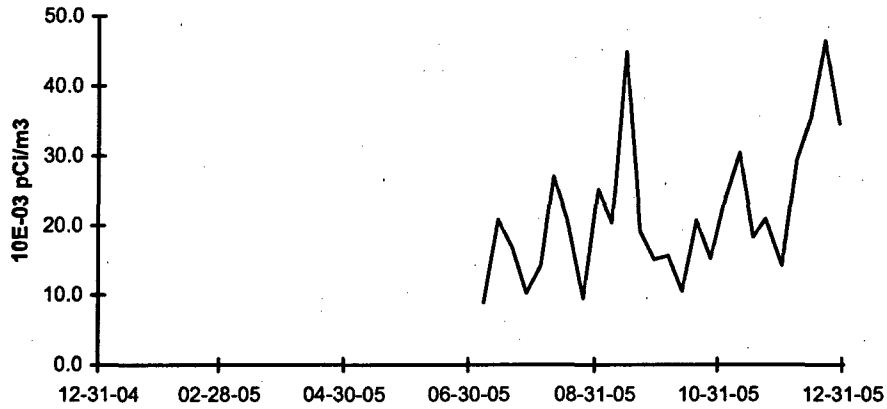


DUE TO VENDOR CHANGE, THE REPORTED UNITS CHANGED FROM E-02 PCi/M3 TO E-03 PCi/M3

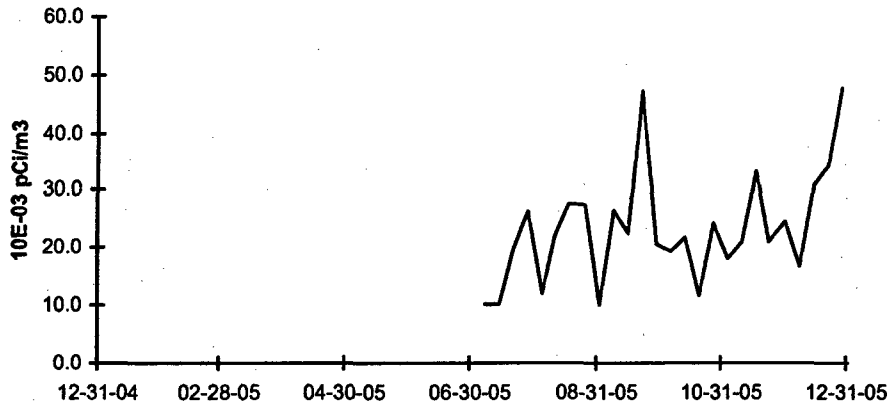
AIR PARTICULATE GROSS BETA ANALYSES OF FAR FIELD LOCATIONS STARTED IN JULY 2005

FIGURE C-7
Air Particulates - Gross Beta - Stations L-08 and L-11
Collected in the Vicinity of LCS, 2005

L-08 Marseilles



L-11 Ransom



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

AIR PARTICULATE GROSS BETA ANALYSES OF FAR FIELD LOCATIONS STARTED IN JULY 2005

APPENDIX D

**INTER-LABORATORY COMPARISON
PROGRAM**

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

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

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

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

TABLE D-1

ANALYTICS ENVIRONMENTAL RADIOACTIVITY CROSS CHECK PROGRAM
TELEDYNE BROWN ENGINEERING, 2005

(PAGE 3 OF 3)

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

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

(a) Teledyne Brown Engineering reported result.

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

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

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

TABLE D-2

**ERA ENVIRONMENTAL RADIOACTIVITY CROSS CHECK PROGRAM
TELEDYNE BROWN ENGINEERING, 2005**

(PAGE 1 OF 1)

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

(a) Teledyne Brown Engineering reported result.

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

(c) ERA evaluation: A=acceptable. Reported result falls within the Warning Limits. NA=not acceptable. Reported result falls outside of the Control Limits. CE=check for Error. Reported result falls within the Control Limits and outside of the Warning Limit.

D-4

TABLE D-3

DOE'S MIXED ANALYTE PERFORMANCE EVALUATION PROGRAM (MAPEP)
TELEDYNE BROWN ENGINEERING, 2005

(PAGE 1 OF 2)

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

TABLE D-3

DOE'S MIXED ANALYTE PERFORMANCE EVALUATION PROGRAM (MAPEP)
TELEDYNE BROWN ENGINEERING, 2005

(PAGE 2 OF 2)

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

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

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

(a) Teledyne Brown Engineering reported result.

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

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

TABLE D-4

**ERA^(a) STATISTICAL SUMMARY PROFICIENCY TESTING PROGRAM
ENVIRONMENTAL, INC., 2005**

(Page 1 of 2)

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

TABLE D-4

**ERA^(a) STATISTICAL SUMMARY PROFICIENCY TESTING PROGRAM
ENVIRONMENTAL, INC., 2005**

(Page 1 of 2)

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

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

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

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

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

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

TABLE D-5

DOE'S MIXED ANALYTE PERFORMANCE EVALUATION PROGRAM (MAPEP)[†]
ENVIRONMENTAL, INC., 2005

(Page 1 of 3)

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

TABLE D-5

DOE'S MIXED ANALYTE PERFORMANCE EVALUATION PROGRAM (MAPEP)
ENVIRONMENTAL, INC., 2005

(Page 2 of 3)

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

TABLE D-5

DOE'S MIXED ANALYTE PERFORMANCE EVALUATION PROGRAM (MAPEP)^g
ENVIRONMENTAL, INC., 2005

(Page 3 of 3)

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

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

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

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

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

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

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

APPENDIX E
EFFLUENT DATA

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INTRODUCTION

LaSalle County Station, a two-unit BWR station, is located near Marseilles, Illinois in LaSalle county, 3.5 miles south the Illinois River. Both units are rated for 3489 MWt. Unit 1 loaded fuel in March 1982. Unit 2 loaded fuel in late December 1983. The station has been designed to keep releases to the environment at levels below those specified in the regulations.

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

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

SUMMARY

Gaseous and liquid effluents for the period contributed to only a small fraction of the LaSalle County Station Technical Specification limits. Calculations of environmental concentrations based on effluent, Illinois River flow, and meteorological data for the period indicate that consumption by the public of radionuclides attributable to LaSalle County Station does not exceed regulatory limits. Radiation exposure from radionuclides releases to the atmosphere represented the critical pathway for the period with a maximum individual total dose estimated to be $1.14\text{E-}01$ mrem for the year, where a shielding and occupancy factor of 0.7 is assumed. The assessment of radiation doses is performed in accordance with the Offsite Dose Calculation Manual (ODCM), specifically, a comparison of preoperational studies with operational controls or with previous environmental surveillance reports and an assessment of the observed impacts of the plant operation on the environment. Control locations are basis for "preoperational data." Yearly data comparisons are provided in Sections 5.1 and 5.2; five-year graphical trend data is provided in Appendix III, Section 7.0. The results of analysis 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 released to the atmosphere during the year, are listed in Table 1.1-1. A total of $8.18\text{E}+03$ curies of fission and activation gases were released with a maximum quarterly average release rate of $3.62\text{E}+02$ $\mu\text{Ci}/\text{sec}$.

A total of $8.89\text{E}-02$ curies of 1-131 were released during the year with a maximum quarterly release rate of $4.95\text{E}-03$ $\mu\text{Ci}/\text{sec}$.

A total of $2.42\text{E}-02$ curies of beta-gamma emitters was released as airborne particulate matter with a maximum quarterly average release rate of $1.36\text{E}-03$ $\mu\text{Ci}/\text{sec}$. Alpha-emitting radionuclides were below the lower limit of detection (LLD).

A total of $6.17\text{E}+01$ curies of tritium was released with a maximum quarterly average release rate of $2.58\text{E}+00$ $\mu\text{Ci}/\text{sec}$.

1.2 Liquids Released to Illinois River

There were no liquid batch releases in 2005. Continuous release path activity was below applicable Lower Limits of Detection.

2.0 SOLID RADIOACTIVE WASTE

Solid radioactive wastes were shipped by truck to the Envirocare Disposal Facility or to a waste processor. For further detail, refer the LaSalle 2005 Radioactive Effluent Release Report. The submittal date of this report was April 29, 2005.

3.0 DOSE TO MAN

3.1 Gaseous Effluent Pathways

Table 3.1-1 summarizes the doses resulting from releases of airborne radioactivity via the different exposure pathways.

3.1.1 Noble Gases

3.1.1.1 Gamma Dose Rates

Unit 1 and Unit 2 gaseous releases at LaSalle

County Station are reported as Unit 1 releases due to a single station vent stack (SVS) release point. Offsite Gamma air and whole body dose rates are shown in Table 3.1-1 and were calculated based on measured release rates, isotopic composition of the noble gases, and average meteorological data for the period. Doses based on concurrent meteorological data are shown in Table 3.4-1. Based on measured effluents and meteorological data, the maximum total body dose to an individual would be 1.14E-01 mrem (Table 3.1-1) for the year, with an occupancy or shielding factor of 0.7 included. The maximum total body dose based on measured effluents and concurrent meteorological data would be 7.87E-02 mrem. (Table 3.4-1).

The maximum gamma air dose was 1.51E-01 mrad (Table 3.1-1) and 2.76E-01 mrad based on concurrent meteorological data (Table 3.4-1).

3.1.1.2 Beta Air and Skin Rates

The range of beta particles in air is relatively small (on the order of a few meters or less); consequently, plumes of gaseous effluents may be considered "infinite" for 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 taken to have a thickness of 7.0 mg/cm² and an occupancy factor of 1.0 is used. The skin dose from beta and gamma radiation for the year was 1.20E-01 (Table 3.1-1) and 9.34E-02 mrem (Table 3.4-1) based on concurrent meteorological data. The maximum offsite beta dose for the year was 5.45E-03 mrad (Table 3.1-1) and 2.55E-02 mrad (Table 3.4-1) based on concurrent meteorological data.

3.1.2 Radioactive Iodine

The human thyroid exhibits a significant capacity to

concentrate ingested or inhaled iodine. The radiiodine, I-131, released during routing operation of the plant, may be made available to man resulting in a dose to the thyroid. The principal pathway of interest for this radionuclide in ingestion of radioiodine in milk.

3.1.2.1 Dose to Thyroid

The hypothetical thyroid dose to a maximum exposed individual living near the station via ingestion of milk was calculated. The radionuclide considered was I-131 and the source of milk was taken to be the nearest dairy farm with the cows pastured from May through October. The maximum thyroid dose due to I-131 was 1.08E-01 mrem (child) for the year (Table 3.1-1).

3.2 Liquid Effluent Pathways

The three principal pathways through the aquatic environment for potential doses to man from liquid waste are ingestion of potable water, eating aquatic foods, and exposure while on the shoreline. Not all of these pathways are significant or applicable at a given time 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 gastro-intestinal tracts, thyroid, bone and skin; specific parameters for use in the equations are given in the Offsite Dose Calculation Manual. The maximum whole body dose was 0.00E+00 mrem and organ dose was 0.00E+00 for the year mrem (Table 3.2-1).

3.3 Assessment of Dose to Member of Public

During the period January to December, 2005, LaSalle County Station did not exceed these limits as shown in Table 3.1-1 and Table 3.2-1 (based on annual average meteorological data), and As shown in Table 3.3-1:

- The Radiological Effluent Technical Standards (RETS) limits on dose or dose commitment to an individual due to radioactive materials in liquid effluents from each reactor unit (1.5 mrem to the whole body or 5 mrem to any organ during

any calendar year; 3 mrem to the whole 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 eight 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).

4.0 SITE METEOROLOGY

A summary of the site meteorological measurements taken during each calendar quarter of the year is given in Appendix E. The data are presented as cumulative joint frequency distributions of the wind direction for the 375' level and wind speed class by atmospheric stability class determined from the temperature difference between the 375' and 33' levels. Data recovery for these measurements was 99.5% during 2005 (Table 3.4-1).

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

APPENDIX E-1

DATA TABLES AND FIGURES

Table 1.1-1

LASALLE COUNTY NUCLEAR POWER STATION
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2005)
UNITS ONE AND TWO
DOCKET NUMBERS 50-373 AND 50-374
GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES

Units	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Estimated Total Error %
-------	---------	---------	---------	---------	----------------------------

A. Fission and Activation Gas Releases

	Ci	2.82E+03	1.86E+03	1.76E+03	1.74E+03	3.50E+01
1. Total Release Activity						
2. Average Release Rate	uCi/sec	3.62E+02	2.37E+02	2.21E+02	2.19E+02	
3. Percent of Technical Specification Limit	%	*	*	*	*	

B. Iodine Releases

	Ci	3.85E-02	1.91E-02	1.80E-02	1.33E-02	3.50E+01
1. Total I-131 Activity						
2. Average Release Rate	uCi/sec	4.95E-03	2.43E-03	2.26E-03	1.67E-03	
3. Percent of Technical Specification Limit	%	*	*	*	*	

C. Particulate (> 8 day half-life) Releases

	Ci	6.57E-03	1.07E-02	5.54E-03	1.35E-03	3.30E+01
1. Gross Activity						
2. Average Release Rate	uCi/sec	8.45E-04	1.36E-03	6.97E-04	1.70E-04	
3. Percent of Technical Specification Limit	%	*	*	*	*	
3. Gross Alpha Activity	Ci	<1.00E-11	<1.00E-11	<1.00E-11	<1.00E-11	

D. Tritium Releases

	Ci	1.47E+01	1.16E+01	2.05E+01	1.49E+01	2.10E+01
1. Total Release Activity						
2. Average Release Rate	uCi/sec	1.89E+00	1.48E+00	2.58E+00	1.87E+00	
3. Percent of Technical Specification Limit	%	*	*	*	*	

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

<< Indicates activity of sample is less than LLD given in uCi/ml

Table 1.2-1

**LASALLE COUNTY NUCLEAR POWER STATION
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2005)
LIQUID RELEASES
UNIT 1 and UNIT 2
SUMMATION OF ALL LIQUID RELEASES**

Units	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Estimated Total Error %
-------	---------	---------	---------	---------	----------------------------

A. Fission and Activation Products

1. Total Activity Released	Ci	<LLD	<LLD	<LLD	<LLD	N/A
2. Average Concentration Released	uCi/ml	<LLD	<LLD	<LLD	<LLD	
3. Percent of Applicable Limit	%	*	*	*	*	

B. Tritium

1. Total Activity Released	Ci	<LLD	<LLD	<LLD	<LLD	N/A
2. Average Concentration Released	uCi/ml	<LLD	<LLD	<LLD	<LLD	
3. Percent of Applicable Limit	%	*	*	*	*	

C. Dissolved Noble Gases

1. Total Activity Released	Ci	<LLD	<LLD	<LLD	<LLD	N/A
2. Average Concentration Released	uCi/ml	<LLD	<LLD	<LLD	<LLD	
3. Percent of Applicable Limit	%	*	*	*	*	

D. Gross Alpha

1. Total Activity Released (estimate)	Ci	<LLD	<LLD	<LLD	<LLD	N/A
2. Average Concentration Released	uCi/ml	<LLD	<LLD	<LLD	<LLD	
3. Percent of Applicable Limit	%	*	*	*	*	

E. Volume of Liquid Waste to Discharge	liters	0.00E+00	0.00E+00	0.00E+00	0.00E+00	N/A
---	--------	----------	----------	----------	----------	-----

F. Volume of Dilution Water	liters	0.00E+00	0.00E+00	0.00E+00	0.00E+00	N/A
------------------------------------	--------	----------	----------	----------	----------	-----

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

"<" Indicates activity of sample is less than LLD given in uCi/ml

Table 2.0-1

SOLID RADWASTE ANNUAL REPORT

LaSalle County Station

Table 2.0-1 had been deliberately deleted. For solid waste disposal detail, refer to the LaSalle County Station 2005 Effluent Report.

Table 3.1-1

LASALLE STATION UNIT ONE

ACTUAL 2005
 MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
 PERIOD OF RELEASE - 01/01/05 TO 12/31/05 CALCULATED 03/29/06
 INFANT RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	4.11E-02 (WSW)	3.75E-02 (WSW)	3.60E-02 (WSW)	3.63E-02 (WSW)	1.51E-01 (WSW)
BETA AIR (MRAD)	1.73E-03 (ESE)	1.26E-03 (ESE)	1.27E-03 (ESE)	1.20E-03 (ESE)	5.45E-03 (ESE)
TOT. BODY (MREM)	3.11E-02 (WSW)	2.83E-02 (WSW)	2.72E-02 (WSW)	2.75E-02 (WSW)	1.14E-01 (WSW)
SKIN (MREM)	3.29E-02 (WSW)	2.99E-02 (WSW)	2.87E-02 (WSW)	2.89E-02 (WSW)	1.20E-01 (WSW)
ORGAN (MREM)	1.94E-03 (ESE)	3.72E-03 (ESE)	4.61E-03 (ESE)	1.32E-02 (ESE)	9.84E-02 (ESE)
	THYROID	THYROID	THYROID	THYROID	THYROID

THIS IS A REPORT FOR THE CALENDAR YEAR 2005

COMPLIANCE STATUS - 10CFR 50 APP. I
 INFANT RECEPTOR

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
GAMMA AIR (MRAD)	5.0	0.82	0.75	0.72	0.73	10.0	1.51
BETA AIR (MRAD)	10.0	0.02	0.01	0.01	0.01	20.0	0.03
TOT. BODY (MREM)	2.5	1.24	1.13	1.09	1.10	5.0	2.28
SKIN (MREM)	7.5	0.44	0.40	0.38	0.39	15.0	0.80
ORGAN (MREM)	7.5	0.03	0.50	0.61	0.18	15.0	0.66
		THYROID	THYROID	THYROID	THYROID		THYROID

RESULTS BASED UPON: ODCM ANNEX REVISION 3.0 MAY 2001
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

Table 3.1-1 (continued)

LASALLE STATION UNIT ONE

ACTUAL 2005
 MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
 PERIOD OF RELEASE - 01/01/05 TO 12/31/05 CALCULATED 03/29/06
 CHILD RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	4.11E-02 (WSW)	3.75E-02 (WSW)	3.60E-02 (WSW)	3.63E-02 (WSW)	1.51E-01 (WSW)
BETA AIR (MRAD)	1.73E-03 (ESE)	1.26E-03 (ESE)	1.27E-03 (ESE)	1.20E-03 (ESE)	5.45E-03 (ESE)
TOT. BODY (MREM)	3.11E-02 (WSW)	2.83E-02 (WSW)	2.72E-02 (WSW)	2.75E-02 (WSW)	1.14E-01 (WSW)
SKIN (MREM)	3.29E-02 (WSW)	2.99E-02 (WSW)	2.87E-02 (WSW)	2.89E-02 (WSW)	1.20E-01 (WSW)
ORGAN (MREM)	1.68E-03 (NNE)	3.94E-02 (ESE)	5.36E-02 (NNE)	1.31E-02 (ESE)	1.08E-01 (NNE)
	THYROID	THYROID	THYROID	THYROID	THYROID

THIS IS A REPORT FOR THE CALENDAR YEAR 2005

COMPLIANCE STATUS - 10CFR 50 APP. I
 CHILD RECEPTOR

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
GAMMA AIR (MRAD)	5.0	0.82	0.75	0.72	0.73	10.0	1.51
BETA AIR (MRAD)	10.0	0.02	0.01	0.01	0.01	20.0	0.03
TOT. BODY (MREM)	2.5	1.24	1.13	1.09	1.10	5.0	2.28
SKIN (MREM)	7.5	0.44	0.40	0.38	0.39	15.0	0.80
ORGAN (MREM)	7.5	0.02	0.53	0.72	0.18	15.0	0.72
		THYROID	THYROID	THYROID	THYROID		THYROID

RESULTS BASED UPON: ODCM ANNEX REVISION 3.0 MAY 2001
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

Table 3.1-1 (continued)

LASALLE STATION UNIT ONE

ACTUAL 2005
 MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
 PERIOD OF RELEASE - 01/01/05 TO 12/31/05 CALCULATED 03/29/06
 TEENAGER RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	4.11E-02 (WSW)	3.75E-02 (WSW)	3.60E-02 (WSW)	3.63E-02 (WSW)	1.51E-01 (WSW)
BETA AIR (MRAD)	1.73E-03 (ESE)	1.26E-03 (ESE)	1.27E-03 (ESE)	1.20E-03 (ESE)	5.45E-03 (ESE)
TOT. BODY (MREM)	3.11E-02 (WSW)	2.83E-02 (WSW)	2.72E-02 (WSW)	2.75E-02 (WSW)	1.14E-01 (WSW)
SKIN (MREM)	3.29E-02 (WSW)	2.99E-02 (WSW)	2.87E-02 (WSW)	2.89E-02 (WSW)	1.20E-01 (WSW)
ORGAN (MREM)	1.32E-03 (NNE)	2.45E-02 (NNE)	3.32E-02 (NNE)	8.09E-03 (NNE)	6.71E-02 (NNE)

THYROID THYROID THYROID THYROID THYROID
 THIS IS A REPORT FOR THE CALENDAR YEAR 2005

COMPLIANCE STATUS - 10CFR 50 APP. I
 TEENAGER RECEPTOR

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
GAMMA AIR (MRAD)	5.0	0.82	0.75	0.72	0.73	10.0	1.51
BETA AIR (MRAD)	10.0	0.02	0.01	0.01	0.01	20.0	0.03
TOT. BODY (MREM)	2.5	1.24	1.13	1.09	1.10	5.0	2.28
SKIN (MREM)	7.5	0.44	0.40	0.38	0.39	15.0	0.80
ORGAN (MREM)	7.5	0.02	0.33	0.44	0.11	15.0	0.45

THYROID THYROID THYROID THYROID THYROID

RESULTS BASED UPON: ODCM ANNEX REVISION 3.0 MAY 2001
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

Table 3.1-1 (continued)

LASALLE STATION UNIT ONE

ACTUAL 2005
 MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
 PERIOD OF RELEASE - 01/01/05 TO 12/31/05 CALCULATED 03/29/06
 ADULT RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	4.11E-02 (WSW)	3.75E-02 (WSW)	3.60E-02 (WSW)	3.63E-02 (WSW)	1.51E-01 (WSW)
BETA AIR (MRAD)	1.73E-03 (ESE)	1.26E-03 (ESE)	1.27E-03 (ESE)	1.20E-03 (ESE)	5.45E-03 (ESE)
TOT. BODY (MREM)	3.11E-02 (WSW)	2.83E-02 (WSW)	2.72E-02 (WSW)	2.75E-02 (WSW)	1.14E-01 (WSW)
SKIN (MREM)	3.29E-02 (WSW)	2.99E-02 (WSW)	2.87E-02 (WSW)	2.89E-02 (WSW)	1.20E-01 (WSW)
ORGAN (MREM)	1.38E-03 (NNE)	2.53E-02 (NNE)	3.38E-02 (NNE)	8.48E-03 (NNE)	6.90E-02 (NNE)

THYROID THYROID THYROID THYROID THYROID
 THIS IS A REPORT FOR THE CALENDAR YEAR 2005

COMPLIANCE STATUS - 10CFR 50 APP. I
 ADULT RECEPTOR

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
GAMMA AIR (MRAD)	5.0	0.82	0.75	0.72	0.73	10.0	1.51
BETA AIR (MRAD)	10.0	0.02	0.01	0.01	0.01	20.0	0.03
TOT. BODY (MREM)	2.5	1.24	1.13	1.09	1.10	5.0	2.28
SKIN (MREM)	7.5	0.44	0.40	0.38	0.39	15.0	0.80
ORGAN (MREM)	7.5	0.02	0.34	0.45	0.11	15.0	0.46
		THYROID	THYROID	THYROID	THYROID		THYROID

RESULTS BASED UPON: ODCM ANNEX REVISION 3.0 MAY 2001
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

Table 3.2-1

LASALLE STATION UNIT ONE

ACTUAL 2005
 MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
 PERIOD OF RELEASE - 01/01/05 TO 12/31/05 - CALCULATED 03/29/06
 INFANT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INTERNAL ORGAN	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

THIS IS A REPORT FOR THE CALENDAR YEAR 2005

COMPLIANCE STATUS - 10 CFR 50 APP. I

----- % OF APP I. -----

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

RESULTS BASED UPON: ODCM ANNEX REVISION 3.0 MAY 2001
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

Table 3.2-1 (continued)

LASALLE STATION UNIT ONE

ACTUAL 2005
 MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
 PERIOD OF RELEASE - 01/01/05 TO 12/31/05 CALCULATED 03/29/06
 CHILD RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INTERNAL ORGAN	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

THIS IS A REPORT FOR THE CALENDAR YEAR 2005

COMPLIANCE STATUS - 10 CFR 50 APP. I

----- % OF APP I. -----

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

RESULTS BASED UPON: ODCM ANNEX REVISION 3.0 MAY 2001
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

Table 3.2-1 (continued)

LASALLE STATION UNIT ONE

ACTUAL 2005
 MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
 PERIOD OF RELEASE - 01/01/05 TO 12/31/05 CALCULATED 03/29/06
 TEENAGER RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INTERNAL ORGAN	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

THIS IS A REPORT FOR THE CALENDAR YEAR 2005

COMPLIANCE STATUS - 10 CFR 50 APP. I

----- % OF APP I. -----

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

RESULTS BASED UPON: ODCM ANNEX REVISION 3.0 MAY 2001
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

Table 3.2-1 (continued)

LASALLE STATION UNIT ONE

ACTUAL 2005
 MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
 PERIOD OF RELEASE - 01/01/05 TO 12/31/05 CALCULATED 03/29/06
 ADULT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
INTERNAL ORGAN	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

THIS IS A REPORT FOR THE CALENDAR YEAR 2005

COMPLIANCE STATUS - 10 CFR 50 APP. I

----- % OF APP I. -----

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

RESULTS BASED UPON:

ODCM ANNEX REVISION 3.0 MAY 2001
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

Table 3.3-1

LASALLE STATION UNIT ONE
10 CFR 20 COMPLIANCE ASSESSMENT
PERIOD OF ASSESSMENT 01/01/05 TO 12/31/05
CALCULATED 03/29/06

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

Total Effective Dose Equivalent, mrem/yr	<u>4.75E-01</u>
10 CFR 20.1301 (a)(1) limit mrem/yr	<u>100.0</u>
‡ of limit	<u>0.47</u>

Compliance Summary - 10CFR20

	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	‡ of Limit
TEDE	1.19E-01	1.19E-01	1.19E-01	1.17E-01	0.47

RESULTS BASED UPON: ODCM ANNEX REVISION 3.0 MAY 2001
ODCM SOFTWARE VERSION 1.1 January 1995
ODCM DATABASE VERSION 1.1 January 1995

Table 3.3-1 (continued)

LASALLE STATION UNIT ONE

10 CFR 20 COMPLIANCE ASSESSMENT

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

CALCULATED 03/29/06

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

		Dose (mrem)	Limit (mrem)	% of Limit
Whole Body (DDE)	Plume	<u>1.14E-01</u>		
	Skyshine	<u>3.50E-01</u>		
	Ground	<u>2.05E-03</u>		
	Total	<u>4.66E-01</u>	<u>25.0</u>	<u>1.86</u>
Organ Dose (CDE)	Thyroid	<u>5.99E-02</u>	<u>75.0</u>	<u>0.08</u>
	Gonads	<u>6.75E-03</u>	<u>25.0</u>	<u>0.03</u>
	Breast	<u>6.71E-03</u>	<u>25.0</u>	<u>0.03</u>
	Lung	<u>6.71E-03</u>	<u>25.0</u>	<u>0.03</u>
	Marrow	<u>6.74E-03</u>	<u>25.0</u>	<u>0.03</u>
	Bone	<u>6.74E-03</u>	<u>25.0</u>	<u>0.03</u>
	Remainder	<u>6.95E-03</u>	<u>25.0</u>	<u>0.03</u>
	CEDE	<u>8.39E-03</u>		
TEDE	<u>4.75E-01</u>	<u>100.0</u>	<u>0.47</u>	

RESULTS BASED UPON: ODCM ANNEX REVISION 3.0 MAY 2001
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

Table 3.3-1 (continued)

LASALLE STATION UNIT TWO

10 CFR 20 COMPLIANCE ASSESSMENT

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

CALCULATED 03/29/06

1.	<u>10 CFR 20.1301 (a) (1) Compliance</u>	
	Total Effective Dose Equivalent, mrem/yr	<u>3.15E-01</u>
	10 CFR 20.1301 (a) (1) limit	<u>100.0</u>
	% of limit	<u>0.31</u>

Compliance Summary - 10CFR20

	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	% of Limit
TEDE	5.00E-02	8.76E-02	8.74E-02	8.98E-02	0.31

RESULTS BASED UPON: ODCM ANNEX REVISION 3.0 MAY 2001
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

Table 3.3-1 (continued)

LASALLE STATION UNIT TWO

10 CFR 20 COMPLIANCE ASSESSMENT

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

CALCULATED 03/29/06

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

		Dose (mrem)	Limit (mrem)	% of Limit
Whole Body (DDE)	Plume	0.00E+00		
	Skyshine	3.15E-01		
	Ground	0.00E+00		
	Total	3.15E-01	25.0	1.26
Organ Dose (CDE)	Thyroid	0.00E+00	75.0	0.00
	Gonads	0.00E+00	25.0	0.00
	Breast	0.00E+00	25.0	0.00
	Lung	0.00E+00	25.0	0.00
	Marrow	0.00E+00	25.0	0.00
	Bone	0.00E+00	25.0	0.00
	Remainder	0.00E+00	25.0	0.00
	CEDE	0.00E+00		
TEDE	3.15E-01	100.0	0.31	

RESULTS BASED UPON: ODCM ANNEX REVISION 3.0 MAY 2001
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

Table 3.4-1

LaSalle Station - Unit 1

MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES

2005

TYPE OF DOSE	FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER	ANNUAL
GAMMA AIR (mrad)	4.630E-02 (WSW)	3.520E-02 (WSW)	3.665E-02 (WSW)	2.245E-02 (SW)	1.379E-01 (WSW)
BETA AIR (mrad)	6.850E-03 (SE)	2.605E-03 (WSW)	3.340E-03 (S)	2.680E-03 (ESE)	1.277E-02 (SE)
WHOLE BODY (mrem)	1.280E-02 (SSW)	9.150E-03 (SW)	1.365E-02 (SSW)	8.250E-03 (ESE)	3.935E-02 (SSW)
SKIN (mrem)	1.820E-02 (SE)	1.190E-02 (SW)	1.620E-02 (SSW)	1.130E-02 (ESE)	4.670E-02 (SSW)
ORGAN (mrem)	9.800E-04 (SE)	3.135E-04 (WSW)	3.400E-04 (S)	2.120E-04 (ESE)	1.568E-03 (SE)
CRITICAL PERSON	Child	Child	Child	Child	Child
CRITICAL ORGAN	Thyroid	Thyroid	Thyroid	Thyroid	Thyroid

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	0.93	10.0	1.38
BETA AIR (mrad)	10.0	0.07	20.0	0.06
WHOLE BODY (mrem)	2.5	0.55	5.0	0.79
SKIN (mrem)	7.5	0.24	15.0	0.31
ORGAN (mrem)	7.5	0.01	15.0	0.01
CRITICAL PERSON		Child		Child
CRITICAL ORGAN		Thyroid		Thyroid

Calculation used release data from the following:
Unit 0 - Chimney

Table 3.4-1 (continued)

LaSalle Station - Unit 2

MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES

2005

TYPE OF DOSE	FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER	ANNUAL
GAMMA AIR (mrad)	4.630E-02 (WSW)	3.520E-02 (WSW)	3.665E-02 (WSW)	2.245E-02 (SW)	1.379E-01 (WSW)
BETA AIR (mrad)	6.850E-03 (SE)	2.605E-03 (WSW)	3.340E-03 (S)	2.680E-03 (ESE)	1.277E-02 (SE)
WHOLE BODY (mrem)	1.280E-02 (SSW)	9.150E-03 (SW)	1.365E-02 (SSW)	8.250E-03 (ESE)	3.935E-02 (SSW)
SKIN (mrem)	1.820E-02 (SE)	1.190E-02 (SW)	1.620E-02 (SSW)	1.130E-02 (ESE)	4.670E-02 (SSW)
ORGAN (mrem)	9.800E-04 (SE)	3.135E-04 (WSW)	3.400E-04 (S)	2.120E-04 (ESE)	1.568E-03 (SE)
CRITICAL PERSON	Child	Child	Child	Child	Child
CRITICAL ORGAN	Thyroid	Thyroid	Thyroid	Thyroid	Thyroid

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	0.93	10.0	1.38
BETA AIR (mrad)	10.0	0.07	20.0	0.06
WHOLE BODY (mrem)	2.5	0.55	5.0	0.79
SKIN (mrem)	7.5	0.24	15.0	0.31
ORGAN (mrem)	7.5	0.01	15.0	0.01
CRITICAL PERSON		Child		Child
CRITICAL ORGAN		Thyroid		Thyroid

Calculation used release data from the following: :
Unit 0 - Chimney

Data Recovery 99.5%
(Priority parameters)

APPENDIX F

METEOROLOGICAL

LaSalle Nuclear Station

Period of Record: January - March 2005
 Stability Class - Extremely Unstable - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 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	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	0	0	1	3	4
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	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	0	1	3	4

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

LaSalle Nuclear Station

Period of Record: January - March 2005
 Stability Class - Moderately Unstable - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

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

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

LaSalle Nuclear Station

Period of Record: January - March 2005
 Stability Class - Slightly Unstable - 200Ft-33Ft Delta-T (F)
 Winds Measured at: 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	1	3	2	0	0	6
NNE	0	3	2	2	0	0	7
NE	0	0	0	8	0	0	8
ENE	0	0	6	1	4	0	11
E	0	0	0	3	0	0	3
ESE	0	0	1	4	0	0	5
SE	0	0	0	1	0	0	1
SSE	0	1	0	0	1	0	2
S	0	2	0	0	3	1	6
SSW	0	1	0	0	0	0	1
SW	0	1	3	0	0	0	4
WSW	0	0	2	4	1	0	7
W	0	0	1	1	3	0	5
WNW	0	0	8	5	2	0	15
NW	0	1	4	2	4	0	11
NNW	0	0	3	4	0	0	7
Variable	0	0	0	0	0	0	0
Total	0	10	33	37	18	1	99

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

LaSalle Nuclear Station

Period of Record: January - March 2005
 Stability Class - Neutral - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	2	21	54	6	5	0	88
NNE	0	27	51	3	0	0	81
NE	1	10	45	33	12	0	101
ENE	1	8	31	42	11	0	93
E	1	14	30	22	2	0	69
ESE	0	10	12	28	7	0	57
SE	0	7	8	16	3	0	34
SSE	1	3	4	2	0	0	10
S	1	4	4	10	10	3	32
SSW	5	9	10	9	2	1	36
SW	1	12	17	7	3	0	40
WSW	0	8	8	6	3	0	25
W	1	24	14	14	11	2	66
WNW	1	20	25	26	10	8	90
NW	1	12	44	46	16	0	119
NNW	0	8	109	62	19	0	198
Variable	0	0	0	0	0	0	0
Total	16	197	466	332	114	14	1139

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

LaSalle Nuclear Station

Period of Record: January - March 2005
 Stability Class - Slightly Stable - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	2	39	5	6	3	0	55
NNE	2	19	3	0	0	0	24
NE	1	2	18	1	0	0	22
ENE	0	3	12	13	0	0	28
E	2	12	41	8	0	0	63
ESE	3	6	21	8	0	0	38
SE	2	4	7	1	0	0	14
SSE	2	7	11	3	0	0	23
S	2	7	14	1	3	0	27
SSW	0	7	13	8	8	0	36
SW	1	3	15	11	6	4	40
WSW	1	2	8	10	6	0	27
W	0	3	8	7	3	2	23
WNW	1	9	5	7	8	3	33
NW	2	9	25	5	1	0	42
NNW	1	17	10	2	0	0	30
Variable	0	0	0	0	0	0	0
Total	22	149	216	91	38	9	525

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

LaSalle Nuclear Station

Period of Record: January - March 2005
 Stability Class - Moderately Stable - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 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	1	2	0	0	0	0	3
NE	2	0	0	0	0	0	2
ENE	3	1	0	0	0	0	4
E	1	7	1	0	0	0	9
ESE	2	12	4	0	0	0	18
SE	0	6	2	2	0	0	10
SSE	3	1	9	9	0	0	22
S	1	4	9	1	0	0	15
SSW	2	1	6	8	3	0	20
SW	0	6	9	5	0	0	20
WSW	0	5	11	7	0	0	23
W	1	7	3	0	0	0	11
WNW	2	6	1	0	0	0	9
NW	1	3	5	0	0	0	9
NNW	0	2	2	0	0	0	4
Variable	0	0	0	0	0	0	0
Total	20	64	62	32	3	0	181

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

LaSalle Nuclear Station

Period of Record: January - March 2005
 Stability Class - Extremely Stable - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 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	0	0	0	0
ENE	0	0	0	0	0	0	0
E	1	3	0	0	0	0	4
ESE	0	5	1	0	0	0	6
SE	1	4	2	0	0	0	7
SSE	0	6	9	0	0	0	15
S	0	4	17	2	0	0	23
SSW	0	4	15	0	0	0	19
SW	0	2	17	5	0	0	24
WSW	0	9	3	2	0	0	14
W	1	9	6	0	0	0	16
WNW	0	4	0	0	0	0	4
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	3	50	72	9	0	0	134

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

LaSalle Nuclear Station

Period of Record: January - March 2005
 Stability Class - Extremely Unstable - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 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	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	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	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	0	0	0	0

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

LaSalle Nuclear Station

Period of Record: January - March 2005
 Stability Class - Moderately Unstable - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 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	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	0	0	0	2	2
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	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	0	0	2	2

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

LaSalle Nuclear Station

Period of Record: January - March 2005
 Stability Class - Slightly Unstable - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 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	1	1
NNE	0	0	0	0	0	0	0
NE	0	0	0	1	0	0	1
ENE	0	0	0	3	0	0	3
E	0	0	0	0	0	0	0
ESE	0	0	0	0	2	0	2
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	2	2
SSW	0	0	0	0	1	0	1
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	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	0	1	4	3	3	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: 2

LaSalle Nuclear Station

Period of Record: January - March 2005
 Stability Class - Neutral - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	12	26	44	11	8	101
NNE	1	9	22	41	3	1	77
NE	0	5	13	49	28	16	111
ENE	1	4	26	32	32	20	115
E	0	4	11	13	14	4	46
ESE	0	9	11	8	18	15	61
SE	1	2	4	6	7	4	24
SSE	0	5	0	4	5	4	18
S	0	6	7	3	6	17	39
SSW	0	2	7	4	5	5	23
SW	1	7	13	10	3	6	40
WSW	1	6	2	11	5	10	35
W	0	6	21	14	12	10	63
WNW	0	5	26	18	18	24	91
NW	1	9	47	83	50	45	235
NNW	3	5	32	50	21	9	120
Variable	0	0	0	0	0	0	0
Total	9	96	268	390	238	198	1199

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 112
 Hours of missing stability measurements in all stability classes: 2

LaSalle Nuclear Station

Period of Record: January - March 2005
 Stability Class - Slightly Stable - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	1	7	9	4	4	25
NNE	0	7	17	11	0	0	35
NE	1	1	9	17	1	0	29
ENE	0	19	13	8	6	0	46
E	0	6	13	17	7	3	46
ESE	0	6	5	5	23	4	43
SE	0	6	5	5	3	1	20
SSE	0	1	4	3	8	10	26
S	0	5	4	2	15	6	32
SSW	1	1	3	8	15	24	52
SW	1	2	2	4	12	20	41
WSW	0	2	2	1	8	15	28
W	3	3	3	8	6	15	38
WNW	0	3	8	4	7	29	51
NW	0	0	5	22	6	6	39
NNW	1	0	10	9	7	3	30
Variable	0	0	0	0	0	0	0
Total	7	63	110	133	128	140	581

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

LaSalle Nuclear Station

Period of Record: January - March 2005
 Stability Class - Moderately Stable - 375Ft-33Ft Delta-T (F)
 Winds Measured at: 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	1	1	2	0	0	4
NNE	0	0	1	2	0	0	3
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	1	0	1
E	1	1	1	1	0	0	4
ESE	1	3	1	0	0	1	6
SE	0	2	5	1	0	3	11
SSE	0	1	4	0	0	6	11
S	1	3	3	3	6	15	31
SSW	0	2	1	2	1	4	10
SW	0	2	1	2	2	8	15
WSW	0	0	0	5	4	15	24
W	0	1	4	2	3	3	13
WNW	0	1	6	1	2	2	12
NW	0	2	5	4	2	0	13
NNW	0	0	0	1	1	0	2
Variable	0	0	0	0	0	0	0
Total	3	19	33	26	22	57	160

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

LaSalle Nuclear Station

Period of Record: January - March 2005
 Stability Class - Extremely Stable - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	0	1	0	1
NNE	0	0	0	1	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	0	0	0	0	0	0
SE	0	0	1	1	2	2	6
SSE	0	0	1	1	1	1	4
S	0	0	0	1	3	7	11
SSW	0	0	0	6	3	7	16
SW	0	0	2	2	5	16	25
WSW	0	0	0	0	0	9	9
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	1	1
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	4	12	15	43	74

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

LaSalle Nuclear Station

Period of Record: April - June 2005
 Stability Class - Extremely Unstable - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	2	0	0	0	2
NNE	0	0	1	4	0	0	5
NE	0	0	2	0	1	0	3
ENE	0	0	0	1	0	0	1
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	2	9	1	0	12
SSW	0	0	2	8	3	1	14
SW	0	0	3	5	2	0	10
WSW	0	0	3	12	3	0	18
W	0	0	1	13	2	0	16
WNW	0	0	0	7	0	0	7
NW	0	0	1	1	1	0	3
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	0	17	60	13	1	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

LaSalle Nuclear Station

Period of Record: April - June 2005

Stability Class - Moderately Unstable - 200Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	2	2	0	0	4
NNE	0	1	4	3	0	0	8
NE	0	1	8	1	0	0	10
ENE	0	0	4	3	0	0	7
E	0	0	1	1	0	0	2
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	1	2	6	0	0	9
S	0	1	0	6	0	0	7
SSW	0	0	8	2	1	0	11
SW	0	0	5	4	2	0	11
WSW	0	0	1	8	1	0	10
W	0	0	2	8	1	0	11
WNW	0	0	3	9	5	1	18
NW	0	0	6	2	2	0	10
NNW	0	0	3	2	1	0	6
Variable	0	0	0	0	0	0	0
Total	0	4	49	57	13	1	124

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

LaSalle Nuclear Station

Period of Record: April - June 2005
 Stability Class - Slightly Unstable - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	1	1	4	0	0	6
NNE	0	2	3	2	0	0	7
NE	0	2	9	2	3	0	16
ENE	0	2	10	1	0	0	13
E	0	0	6	4	4	1	15
ESE	0	1	1	1	0	0	3
SE	0	1	3	1	1	0	6
SSE	0	0	3	5	1	0	9
S	0	1	9	5	1	0	16
SSW	0	2	9	3	1	0	15
SW	0	3	8	5	2	0	18
WSW	0	5	2	5	3	0	15
W	0	2	5	6	1	0	14
WNW	0	1	8	17	6	3	35
NW	0	0	4	3	3	0	10
NNW	0	1	0	2	5	0	8
Variable	0	0	0	0	0	0	0
Total	0	24	81	66	31	4	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

LaSalle Nuclear Station

Period of Record: April - June 2005
 Stability Class - Neutral - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	2	12	15	4	0	33
NNE	0	7	21	14	0	0	42
NE	1	12	21	29	9	0	72
ENE	2	8	30	13	2	0	55
E	0	12	28	21	10	0	71
ESE	1	12	19	6	0	0	38
SE	0	8	15	9	1	1	34
SSE	1	7	10	13	2	0	33
S	0	8	12	10	3	0	33
SSW	1	6	21	12	3	0	43
SW	0	10	13	10	3	0	36
WSW	2	16	15	9	4	0	46
W	2	7	16	15	14	0	54
WNW	0	8	12	24	21	5	70
NW	0	4	11	15	1	1	32
NNW	1	2	3	15	18	0	39
Variable	0	0	0	0	0	0	0
Total	11	129	259	230	95	7	731

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

LaSalle Nuclear Station

Period of Record: April - June 2005
 Stability Class - Slightly Stable - 200Ft-33Ft Delta-T (F)
 Winds Measured at: 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	3	10	1	0	0	0	14
NNE	0	24	8	2	0	0	34
NE	1	9	19	5	0	0	34
ENE	1	4	17	17	1	0	40
E	2	16	29	9	3	0	59
ESE	1	11	9	7	8	0	36
SE	2	7	7	1	1	0	18
SSE	0	6	7	6	0	0	19
S	0	7	15	9	1	0	32
SSW	1	4	15	10	0	0	30
SW	1	3	10	12	0	0	26
WSW	1	8	20	2	2	0	33
W	1	7	16	13	3	0	40
WNW	2	10	10	15	4	0	41
NW	0	6	4	0	0	0	10
NNW	2	1	3	2	1	0	9
Variable	0	0	0	0	0	0	0
Total	18	133	190	110	24	0	475

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

LaSalle Nuclear Station

Period of Record: April - June 2005
 Stability Class - Moderately Stable - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	2	5	0	0	0	0	7
NNE	2	11	0	0	0	0	13
NE	0	0	0	0	0	0	0
ENE	1	2	1	1	0	0	5
E	1	14	27	0	0	0	42
ESE	0	6	6	3	0	0	15
SE	1	10	11	1	0	0	23
SSE	1	11	6	3	0	0	21
S	2	7	9	2	0	0	20
SSW	2	14	15	2	0	0	33
SW	0	10	11	1	0	0	22
WSW	3	7	15	0	0	0	25
W	2	9	5	0	0	0	16
WNW	1	15	7	0	0	0	23
NW	2	3	3	0	0	0	8
NNW	2	5	0	0	0	0	7
Variable	0	0	0	0	0	0	0
Total	22	129	116	13	0	0	280

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

LaSalle Nuclear Station

Period of Record: April - June 2005

Stability Class - Extremely Stable - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 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	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	4	6	0	0	0	10
ESE	0	17	15	0	0	0	32
SE	0	20	5	0	0	0	25
SSE	0	25	14	1	0	0	40
S	1	16	11	1	0	0	29
SSW	2	21	16	2	0	0	41
SW	0	8	20	0	0	0	28
WSW	1	13	21	0	0	0	35
W	0	12	5	0	0	0	17
WNW	0	8	1	0	0	0	9
NW	0	2	0	0	0	0	2
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	4	146	114	4	0	0	268

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

LaSalle Nuclear Station

Period of Record: April - June 2005

Stability Class - Extremely Unstable - 375Ft-33Ft Delta-T (F)
Winds Measured at 375 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	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	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	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	0	0	0	0

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

LaSalle Nuclear Station

Period of Record: April - June 2005

Stability Class - Moderately Unstable - 375Ft-33Ft Delta-T (F)
Winds Measured at 375 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	1	0	0	1
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	1	4	1	6
SSW	0	0	0	1	0	0	1
SW	0	0	1	0	2	0	3
WSW	0	0	0	1	6	0	7
W	0	0	0	0	2	0	2
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	0	1	5	14	1	21

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

LaSalle Nuclear Station

Period of Record: April - June 2005
 Stability Class - Slightly Unstable - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 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	0	6	0	7
NE	0	0	4	4	0	2	10
ENE	0	0	0	4	0	0	4
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	1	0	0	1
S	0	0	0	4	3	1	8
SSW	0	0	0	4	7	3	14
SW	0	0	1	2	2	3	8
WSW	0	0	3	2	5	1	11
W	0	0	1	2	3	0	6
WNW	0	0	0	2	0	0	2
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	0	14	27	26	10	77

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

LaSalle Nuclear Station

Period of Record: April - June 2005
 Stability Class - Neutral - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	2	4	10	22	8	46
NNE	0	5	14	14	22	5	60
NE	1	6	24	27	18	19	95
ENE	2	8	30	31	13	3	87
E	0	5	23	26	17	12	83
ESE	2	9	16	11	4	5	47
SE	0	6	15	16	5	3	45
SSE	0	2	11	18	14	1	46
S	0	5	16	21	15	3	60
SSW	0	8	24	26	12	12	82
SW	0	2	16	21	12	5	56
WSW	1	16	12	15	16	7	67
W	1	5	13	21	30	14	84
WNW	0	4	14	25	41	22	106
NW	1	3	13	14	22	14	67
NNW	0	1	1	2	11	22	37
Variable	0	0	0	0	0	0	0
Total	8	87	246	298	274	155	1068

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

LaSalle Nuclear Station

Period of Record: April - June 2005
 Stability Class - Slightly Stable - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	3	4	3	0	0	10
NNE	0	6	3	11	4	1	25
NE	0	5	8	25	7	1	46
ENE	1	3	7	22	10	0	43
E	0	4	7	12	11	9	43
ESE	2	1	9	4	7	14	37
SE	0	2	4	4	7	3	20
SSE	0	1	6	12	3	8	30
S	1	1	3	8	12	13	38
SSW	3	3	1	7	9	22	45
SW	0	5	6	12	10	10	43
WSW	0	1	5	2	10	9	27
W	0	4	5	5	18	24	56
WNW	1	0	2	12	21	24	60
NW	0	1	5	12	3	1	22
NNW	0	0	6	3	1	1	11
Variable	0	0	0	0	0	0	0
Total	8	40	81	154	133	140	556

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: 4

LaSalle Nuclear Station

Period of Record: April - June 2005
 Stability Class - Moderately Stable - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	1	1	1	0	0	3
NNE	0	1	2	1	0	0	4
NE	0	3	1	3	3	0	10
ENE	0	0	2	7	1	0	10
E	0	0	2	4	6	0	12
ESE	0	1	1	10	8	2	22
SE	0	0	5	3	5	6	19
SSE	1	2	3	5	8	7	26
S	0	2	1	11	7	12	33
SSW	0	0	9	10	10	22	51
SW	0	0	4	14	13	13	44
WSW	0	0	2	4	11	2	19
W	0	2	5	8	6	1	22
WNW	0	0	3	11	5	1	20
NW	0	3	3	6	10	3	25
NNW	0	0	0	2	1	0	3
Variable	0	0	0	0	0	0	0
Total	1	15	44	100	94	69	323

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

LaSalle Nuclear Station

Period of Record: April - June 2005

Stability Class - Extremely Stable - 375Ft-33Ft Delta-T (F)
Winds Measured at 375 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	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	1	0	0	1	2	4
SE	0	1	0	0	0	11	12
SSE	0	2	6	2	5	10	25
S	0	0	5	3	5	11	24
SSW	1	2	1	6	2	7	19
SW	2	0	1	5	11	4	23
WSW	0	1	1	2	4	0	8
W	0	0	0	2	5	1	8
WNW	0	0	0	1	1	4	6
NW	0	0	0	1	0	0	1
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	3	7	14	23	34	50	131

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

LaSalle Nuclear Station

Period of Record: July - September 2005
 Stability Class - Extremely Unstable - 200Ft-33Ft Delta-T (F)
 Winds Measured at: 33 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	0	0	0	0
NE	0	0	3	0	0	0	3
ENE	0	0	0	0	0	0	0
E	0	0	0	1	0	0	1
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	3	3	0	0	6
SW	0	0	7	2	0	0	9
WSW	0	1	0	3	0	0	4
W	0	0	3	6	0	0	9
WNW	0	0	3	8	0	0	11
NW	0	0	1	2	0	0	3
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	1	20	26	0	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: 0

LaSalle Nuclear Station

Period of Record: July - September 2005
 Stability Class - Moderately Unstable - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	3	2	0	0	5
NNE	0	4	3	0	0	0	7
NE	0	0	1	1	0	0	2
ENE	0	0	3	0	0	0	3
E	0	0	1	0	0	0	1
ESE	0	0	2	0	0	0	2
SE	0	0	0	1	0	0	1
SSE	0	0	2	0	0	0	2
S	0	1	3	0	0	0	4
SSW	0	0	14	1	0	0	15
SW	0	1	9	7	2	0	19
WSW	0	0	5	2	0	0	7
W	0	1	4	2	0	0	7
WNW	0	2	10	3	0	0	15
NW	0	1	5	0	0	0	6
NNW	0	0	0	3	0	0	3
Variable	0	0	0	0	0	0	0
Total	0	10	65	22	2	0	99

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

LaSalle Nuclear Station

Period of Record: July - September 2005
 Stability Class - Slightly Unstable - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	9	6	0	0	0	15
NNE	0	9	2	0	0	0	11
NE	0	2	4	1	0	0	7
ENE	0	2	9	0	0	0	11
E	0	4	5	1	0	0	10
ESE	0	3	6	1	0	0	10
SE	0	6	4	0	0	0	10
SSE	0	3	5	0	0	0	8
S	0	0	5	0	0	0	5
SSW	0	2	12	5	0	0	19
SW	0	5	6	3	0	0	14
WSW	0	8	7	6	0	0	21
W	0	11	4	1	0	0	16
WNW	0	7	6	3	0	0	16
NW	0	1	11	0	0	0	12
NNW	0	2	7	3	0	0	12
Variable	0	0	0	0	0	0	0
Total	0	74	99	24	0	0	197

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

LaSalle Nuclear Station

Period of Record: July - September 2005
 Stability Class - Neutral - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	4	48	24	2	0	0	78
NNE	2	31	32	0	0	0	65
NE	1	21	28	11	0	0	61
ENE	1	11	16	11	0	0	39
E	1	21	16	2	0	0	40
ESE	2	14	17	1	0	0	34
SE	3	24	10	0	0	0	37
SSE	6	17	14	1	0	0	38
S	5	11	17	4	0	0	37
SSW	2	10	16	5	0	0	33
SW	3	6	9	12	0	0	30
WSW	2	11	7	4	0	0	24
W	1	7	7	1	0	0	16
WNW	4	15	9	4	0	0	32
NW	1	10	23	2	1	0	37
NNW	0	17	29	7	3	0	56
Variable	0	0	0	0	0	0	0
Total	38	274	274	67	4	0	657

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

LaSalle Nuclear Station

Period of Record: July - September 2005
 Stability Class - Slightly Stable - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	2	45	6	0	0	0	53
NNE	1	51	6	1	0	0	59
NE	0	8	18	1	0	0	27
ENE	0	8	29	2	0	0	39
E	0	20	19	0	0	0	39
ESE	3	12	7	0	0	0	22
SE	1	10	8	1	0	0	20
SSE	2	12	11	0	0	0	25
S	3	8	18	2	0	0	31
SSW	2	9	27	1	0	0	39
SW	0	8	21	4	0	0	33
WSW	2	8	9	2	0	0	21
W	1	11	8	0	0	0	20
WNW	3	10	7	0	0	0	20
NW	1	7	8	0	0	0	16
NNW	0	14	6	0	0	0	20
Variable	0	0	0	0	0	0	0
Total	21	241	208	14	0	0	484

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

LaSalle Nuclear Station

Period of Record: July - September 2005
 Stability Class - Moderately Stable - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	2	24	0	0	0	0	26
NNE	0	15	0	0	0	0	15
NE	1	2	0	0	0	0	3
ENE	2	1	2	0	0	0	5
E	0	38	17	0	0	0	55
ESE	3	26	2	0	0	0	31
SE	0	19	1	0	0	0	20
SSE	4	16	8	0	0	0	28
S	4	15	17	0	0	0	36
SSW	0	12	15	1	0	0	28
SW	0	6	4	1	0	0	11
WSW	1	9	2	1	0	0	13
W	0	12	6	0	0	0	18
WNW	3	14	2	0	0	0	19
NW	1	6	0	0	0	0	7
NNW	2	7	0	0	0	0	9
Variable	0	0	0	0	0	0	0
Total	23	222	76	3	0	0	324

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

LaSalle Nuclear Station

Period of Record: July - September 2005
 Stability Class - Extremely Stable - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	7	0	0	0	0	7
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	11	3	0	0	0	14
ESE	0	35	1	0	0	0	36
SE	1	33	2	0	0	0	36
SSE	3	51	7	0	0	0	61
S	2	57	11	0	0	0	70
SSW	0	38	10	0	0	0	48
SW	1	22	20	0	0	0	43
WSW	2	9	11	0	0	0	22
W	1	13	4	0	0	0	18
WNW	1	16	0	0	0	0	17
NW	0	4	0	0	0	0	4
NNW	0	4	0	0	0	0	4
Variable	0	0	0	0	0	0	0
Total	11	300	69	0	0	0	380

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

LaSalle Nuclear Station

Period of Record: July - September 2005
 Stability Class - Extremely Unstable - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 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	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	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	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	0	0	0	0

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

LaSalle Nuclear Station

Period of Record: July - September 2005

Stability Class - Moderately Unstable - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 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	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	0	0	0	0	0
SSW	0	0	0	0	1	0	1
SW	0	0	0	2	1	0	3
WSW	0	0	0	0	0	0	0
W	0	0	0	1	1	0	2
WNW	0	0	0	1	0	0	1
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	4	3	0	7

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

LaSalle Nuclear Station

Period of Record: July - September 2005
 Stability Class - Slightly Unstable - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	0	1	0	1
NNE	0	0	1	3	0	0	4
NE	0	0	0	1	1	0	2
ENE	0	0	0	1	0	0	1
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	1	0	0	1
SSW	0	0	3	5	0	0	8
SW	0	0	2	2	2	2	8
WSW	0	0	0	3	0	0	3
W	0	1	1	0	2	0	4
WNW	0	0	2	4	1	0	7
NW	0	0	0	4	0	0	4
NNW	0	0	0	1	1	0	2
Variable	0	0	0	0	0	0	0
Total	0	1	10	27	8	2	48

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

LaSalle Nuclear Station

Period of Record: July - September 2005

Stability Class - Neutral - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	31	38	15	4	1	90
NNE	1	20	21	30	5	1	78
NE	2	13	11	28	21	3	78
ENE	2	20	21	17	11	0	71
E	0	13	17	4	5	0	39
ESE	0	12	16	13	0	0	41
SE	0	16	23	5	1	0	45
SSE	2	16	15	12	1	0	46
S	4	9	16	20	6	0	55
SSW	2	5	17	29	15	3	71
SW	0	10	15	12	13	2	52
WSW	0	16	18	4	12	0	50
W	2	14	11	9	2	0	38
WNW	0	13	20	16	5	1	55
NW	2	7	33	32	4	6	84
NNW	0	16	23	17	1	0	57
Variable	0	0	0	0	0	0	0
Total	18	231	315	263	106	17	950

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

LaSalle Nuclear Station

Period of Record: July - September 2005
 Stability Class - Slightly Stable - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	4	13	20	4	0	42
NNE	1	4	17	31	6	0	59
NE	0	2	14	28	13	0	57
ENE	0	1	24	30	5	0	60
E	0	4	21	25	8	0	58
ESE	0	4	11	9	3	0	27
SE	0	10	9	9	4	0	32
SSE	1	4	2	11	4	1	23
S	3	6	7	6	14	9	45
SSW	0	4	7	7	9	28	55
SW	1	0	3	6	12	16	38
WSW	0	0	8	10	8	2	28
W	0	2	11	9	1	0	23
WNW	0	2	7	8	4	0	21
NW	0	1	8	7	6	0	22
NNW	1	5	8	10	4	0	28
Variable	0	0	0	0	0	0	0
Total	8	53	170	226	105	56	618

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

LaSalle Nuclear Station

Period of Record: July - September 2005

Stability Class - Moderately Stable - 375Ft-33Ft Delta-T (F)
Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	8	1	1	0	10
NNE	1	1	4	2	0	0	8
NE	0	4	5	7	0	0	16
ENE	0	3	3	1	0	0	7
E	0	1	1	6	11	0	19
ESE	1	6	4	19	18	5	53
SE	0	1	4	10	7	2	24
SSE	0	4	8	18	2	3	35
S	2	6	9	20	12	17	66
SSW	2	2	9	6	9	19	47
SW	0	3	3	4	1	3	14
WSW	0	0	2	5	6	1	14
W	0	0	2	12	2	0	16
WNW	0	3	3	8	4	0	18
NW	1	3	1	8	6	0	19
NNW	0	2	0	1	3	0	6
Variable	0	0	0	0	0	0	0
Total	7	39	66	128	82	50	372

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

LaSalle Nuclear Station

Period of Record: July - September 2005
 Stability Class - Extremely Stable - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	1	5	1	0	7
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	3	3	0	6
SE	0	0	0	8	6	0	14
SSE	0	0	0	19	3	3	25
S	0	0	1	12	20	10	43
SSW	0	0	5	11	17	6	39
SW	0	0	4	16	12	5	37
WSW	0	2	2	2	9	0	15
W	0	1	1	3	1	5	11
WNW	0	0	0	2	0	2	4
NW	0	0	0	6	1	0	7
NNW	0	0	0	0	2	0	2
Variable	0	0	0	0	0	0	0
Total	0	3	14	87	75	31	210

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

LaSalle Nuclear Station

Period of Record: October - December 2005

Stability Class - Extremely Unstable - 200Ft-33Ft Delta-T (F)
Winds Measured at 33 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	1	0	0	1
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	2	0	0	2
NW	0	0	0	0	0	0	0
NNW	0	0	0	1	0	0	1
Variable	0	0	0	0	0	0	0
Total	0	0	0	5	0	0	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: 0

LaSalle Nuclear Station

Period of Record: October - December 2005

Stability Class - Moderately Unstable - 200Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	1	2	1	0	0	4
NNE	0	0	1	1	0	0	2
NE	0	1	1	2	0	0	4
ENE	0	0	1	0	0	0	1
E	0	0	0	0	0	0	0
ESE	0	0	1	0	0	0	1
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	2	0	2
S	0	1	1	0	0	0	2
SSW	0	1	3	2	0	0	6
SW	0	0	1	9	1	0	11
WSW	0	0	1	1	2	0	4
W	0	0	1	1	0	0	2
WNW	0	0	0	2	0	0	2
NW	0	0	0	1	0	0	1
NNW	0	0	0	1	0	0	1
Variable	0	0	0	0	0	0	0
Total	0	4	13	21	5	0	43

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

LaSalle Nuclear Station

Period of Record: October -- December 2005

Stability Class - Slightly Unstable - 200Ft-33Ft Delta-T (F)
 Winds Measured at: 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	2	3	1	0	0	6
NNE	0	0	2	0	0	0	2
NE	0	0	2	3	0	0	5
ENE	0	0	6	2	0	0	8
E	0	0	0	0	0	0	0
ESE	0	1	0	0	0	0	1
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	2	0	2
S	0	0	1	1	0	0	2
SSW	0	0	3	7	1	0	11
SW	0	0	2	7	5	0	14
WSW	0	0	5	2	1	0	8
W	0	0	5	5	0	0	10
WNW	0	1	2	2	0	0	5
NW	0	0	1	3	0	0	4
NNW	0	1	8	16	0	0	25
Variable	0	0	0	0	0	0	0
Total	0	5	40	49	9	0	103

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

LaSalle Nuclear Station

Period of Record: October - December 2005
 Stability Class - Neutral - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	16	25	26	1	0	69
NNE	0	12	16	1	0	0	29
NE	1	4	20	1	0	0	26
ENE	0	2	22	22	6	0	52
E	0	5	17	33	1	0	56
ESE	0	6	8	4	0	0	18
SE	4	4	9	10	8	0	35
SSE	0	1	3	3	1	0	8
S	0	1	13	9	0	0	23
SSW	3	2	15	21	9	0	50
SW	1	6	24	14	14	0	59
WSW	1	4	25	12	1	3	46
W	0	16	35	30	12	13	106
WNW	3	16	31	30	7	8	95
NW	0	7	40	20	10	1	78
NNW	1	10	30	29	7	6	83
Variable	0	0	0	0	0	0	0
Total	15	112	333	265	77	31	833

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

LaSalle Nuclear Station

Period of Record: October - December 2005

Stability Class - Slightly Stable - 200Ft-33Ft Delta-T (F)
Winds Measured at: 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	11	10	7	0	0	29
NNE	2	22	4	0	0	0	28
NE	2	9	12	0	0	0	23
ENE	0	1	7	3	0	0	11
E	1	13	15	8	0	0	37
ESE	1	7	2	4	0	0	14
SE	2	8	5	6	8	0	29
SSE	1	2	12	12	0	0	27
S	2	5	17	10	1	3	38
SSW	1	4	23	18	12	2	60
SW	2	7	15	26	15	2	67
WSW	1	4	14	8	3	0	30
W	0	12	21	13	8	4	58
WNW	0	12	30	10	18	16	86
NW	1	11	28	9	1	1	51
NNW	0	7	10	6	0	0	23
Variable	0	0	0	0	0	0	0
Total	17	135	225	140	66	28	611

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

LaSalle Nuclear Station

Period of Record: October - December 2005
 Stability Class - Moderately Stable - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	2	12	0	0	0	0	14
NNE	1	8	0	0	0	0	9
NE	0	1	0	0	0	0	1
ENE	0	0	0	0	0	0	0
E	3	3	1	0	0	0	7
ESE	0	6	5	0	0	0	11
SE	1	7	8	0	0	0	16
SSE	0	1	5	0	0	0	6
S	0	12	6	9	0	0	27
SSW	0	3	23	15	1	0	42
SW	2	4	13	15	0	0	34
WSW	1	6	14	2	0	0	23
W	1	17	24	0	0	0	42
WNW	0	20	13	0	0	0	33
NW	0	15	10	0	0	0	25
NNW	0	7	2	0	0	0	9
Variable	0	0	0	0	0	0	0
Total	11	122	124	41	1	0	299

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

LaSalle Nuclear Station

Period of Record: October -- December 2005

Stability Class - Extremely Stable - 200Ft-33Ft Delta-T (F)
 Winds Measured at: 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	2	0	0	0	0	2
NNE	0	1	0	0	0	0	1
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	1	3	0	0	0	0	4
ESE	0	1	0	0	0	0	1
SE	0	7	3	0	0	0	10
SSE	1	17	4	0	0	0	22
S	0	27	13	0	0	0	40
SSW	2	9	51	2	0	0	64
SW	0	12	27	0	0	0	39
WSW	0	3	27	1	0	0	31
W	0	10	14	0	0	0	24
WNW	0	7	3	0	0	0	10
NW	0	8	5	0	0	0	13
NNW	0	1	0	0	0	0	1
Variable	0	0	0	0	0	0	0
Total	4	108	147	3	0	0	262

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

LaSalle Nuclear Station

Period of Record: October - December 2005

Stability Class - Extremely Unstable - 375Ft-33Ft Delta-T (F)
Winds Measured at 375 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	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	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	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	0	0	0	0

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

LaSalle Nuclear Station

Period of Record: October - December 2005
 Stability Class - Moderately Unstable - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 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	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	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	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	0	0	0	0

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

LaSalle Nuclear Station

Period of Record: October - December 2005
 Stability Class - Slightly Unstable - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 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	1	0	2
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	1	1	2
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	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	1	2	1	4

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

LaSalle Nuclear Station

Period of Record: October - December 2005
 Stability Class - Neutral - 375Ft-33Ft Delta-T (F)
 Winds Measured at: 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	11	8	19	31	7	76
NNE	1	3	3	18	3	0	28
NE	1	2	16	29	8	0	56
ENE	0	1	8	26	21	10	66
E	1	1	6	13	22	0	43
ESE	0	5	4	9	0	0	18
SE	1	4	2	5	7	20	39
SSE	0	0	1	3	2	8	14
S	2	1	7	10	14	3	37
SSW	1	3	7	27	27	18	83
SW	0	2	9	24	10	34	79
WSW	3	3	19	14	6	25	70
W	0	10	24	26	28	34	122
WNW	2	8	17	34	19	17	97
NW	0	5	20	40	21	18	104
NNW	1	6	10	23	43	16	99
Variable	0	0	0	0	0	0	0
Total	13	65	161	320	262	210	1031

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: 1

LaSalle Nuclear Station

Period of Record: October - December 2005

Stability Class - Slightly Stable - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	2	6	1	8	5	1	23
NNE	0	5	8	5	1	0	19
NE	1	4	21	6	7	0	39
ENE	0	4	9	10	1	0	24
E	0	4	2	13	4	0	23
ESE	1	6	5	4	1	0	17
SE	0	2	3	8	4	10	27
SSE	2	0	3	5	10	14	34
S	0	2	0	1	9	21	33
SSW	0	2	4	7	12	56	81
SW	0	3	3	8	18	38	70
WSW	0	3	5	12	9	9	38
W	0	3	9	10	17	33	72
WNW	1	4	14	34	30	43	126
NW	0	3	8	14	28	8	61
NNW	0	4	5	1	6	7	23
Variable	0	0	0	0	0	0	0
Total	7	55	100	146	162	240	710

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

LaSalle Nuclear Station

Period of Record: October - December 2005

Stability Class - Moderately Stable - 375Ft-33Ft Delta-T (F)
Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	1	3	0	3	0	7
NNE	0	2	2	7	0	0	11
NE	1	1	1	4	2	0	9
ENE	1	2	3	0	0	0	6
E	0	4	1	2	0	0	7
ESE	0	1	0	1	1	0	3
SE	0	0	1	3	3	0	7
SSE	0	1	1	1	4	1	8
S	0	3	3	3	11	9	29
SSW	0	1	1	3	18	55	78
SW	0	2	0	8	6	17	33
WSW	0	0	4	13	3	3	23
W	0	1	4	17	7	10	39
WNW	0	2	3	10	3	1	19
NW	1	0	3	9	5	6	24
NNW	0	0	3	6	3	4	16
Variable	0	0	0	0	0	0	0
Total	3	21	33	87	69	106	319

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

LaSalle Nuclear Station

Period of Record: October - December 2005
 Stability Class - Extremely Stable - 375Ft-33Ft Delta-T (F)
 Winds Measured at 375 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	1	0	0	2
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	1	1	1	3
S	0	0	3	1	1	11	16
SSW	0	0	0	4	7	20	31
SW	0	0	4	1	12	9	26
WSW	0	0	2	6	8	3	19
W	0	1	5	3	1	10	20
WNW	0	0	1	2	6	7	16
NW	0	0	1	0	1	1	3
NNW	0	0	0	1	2	0	3
Variable	0	0	0	0	0	0	0
Total	0	1	17	20	39	62	139

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