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RA16-017

10 CFR 50.36a

April 29, 2016

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: 2015 Annual Radioactive Effluent Release Report

Enclosed is the Exelon Generation Company, LLC, 2015 Annual Radioactive Effluent Release Report for LaSalle County Station, submitted in accordance with 10 CFR 50.36a, "Technical specifications on effluents from nuclear power reactors," paragraph (a)(2), and Technical Specifications 5.6.3, "Radioactive Effluent Release Report."

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

Respectfully,

A handwritten signature in black ink, appearing to read "William J. Trafton".  
William J. Trafton  
Site Vice President  
LaSalle County Station

Enclosure: LaSalle County Station 2015 Annual Radiological Effluent Release Report

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

LASALLE COUNTY NUCLEAR POWER STATION  
ANNUAL RADIOLOGICAL EFFLUENT RELEASE REPORT (ARERR)  
2015

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
SUPPLEMENTAL INFORMATION**

**1. Regulatory Limits**

**a. Gaseous Effluents**

- 1) The air dose due to noble gases released in gaseous effluents, from each reactor unit, from the site shall be limited to the following:
  - a) During any calendar quarter: Less than or equal to 5 mrad for gamma radiation and less than or equal to 10 mrad for beta radiation, and
  - b) During any calendar year: Less than or equal to 10 mrad for gamma radiation and less than or equal to 20 mrad for beta radiation.
- 2) The dose to an individual from radioiodines and radioactive materials in particulate form, and radionuclides, other than noble gases, with half-lives greater than eight days in gaseous effluents released, from each reactor unit, from the site shall be limited to the following:
  - a) During any calendar quarter: Less than or equal to 7.5 mRem to any organ, and
  - b) During any calendar year: Less than or equal to 15 mRem to any organ.

**b. Liquid Effluents**

- 1) The dose or dose commitment to an individual from radioactive materials in liquid effluents released, from each reactor unit, from the site shall be limited:
  - a) During any calendar quarter: Less than or equal to 1.5 mRem to the total body and to less than or equal to 5 mRem to any organ, and
  - b) During any calendar year: Less than or equal to 3 mRem to the total body and to less than or equal to 10 mRem to any organ.

**c. Total Dose**

- 1) The dose or dose commitment to any member of the public, due to releases or radioactivity and radiation, from uranium fuel cycle sources shall be limited to less than or equal to 25 mRem to the body or any organ (except the thyroid, which shall be limited to less than or equal to 75 mRem) over 12 consecutive months.

**2. Allowable Concentrations**

**a. Gaseous Effluents**

- 1) The dose rate due to radioactive materials released in gaseous effluents from the site shall be limited to the following:
  - a) For noble gases: Less than or equal to 500 mRem/year to the total body and less than or equal to 3000 mRem/year to the skin, and
  - b) For all radioiodines and for all radioactive materials in particulate form, and radionuclides, other than noble gases, with half-lives greater than eight days: Less than or equal to 1500 mRem/year to any organ via the inhalation pathway.

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SUPPLEMENTAL INFORMATION**

**b. Liquid Effluents**

- 1) The concentration of radioactive material released from the site shall be limited to ten (10) times the concentrations specified in 10 CFR Part 20, Appendix B, Table II, Column 2 for radionuclides other than dissolved or entrained noble gases. For dissolved or entrained noble gases, the concentration shall be limited to the following:

Nuclide	DWC ( $\mu$ Ci/mL)
Kr-85m	2.00E-04
Kr-85	5.00E-04
Kr-87	4.00E-05
Kr-88	9.00E-05
Xe-131m	7.00E-04
Xe-133m	5.00E-04
Xe-133	6.00E-04
Xe-135m	2.00E-04
Xe-135	2.00E-04
Ar-41	7.00E-05

**3. Average Energy**

- 1) Not applicable - average energy is no longer used to determine dose to the public.

**4. Measurements and Approximations of Total Radioactivity**

**a. Gaseous Effluents**

- 1) The Containment Vent and Purge System is sampled by grab sample, which is analyzed for principal gamma emitters and H-3.
- 2) The Main Vent Stack (Station Vent Stack) is sampled by grab sample, which is analyzed for principal gamma emitters and H-3.
- 3) Standby Gas Treatment (SBGT) System is sampled by grab sample, which is analyzed for principal gamma emitters.
- 4) All release types as listed in 4.a.1) and 4.a.2) above are sampled at the Station Vent Stack (SVS) Wide Range Gas Monitor (WRGM), and those listed in 4.a.3) above are sampled at the Standby Gas Treatment (SBGT) System WRGM whenever there is flow. These effluents are continuously sampled by charcoal cartridge and particulate filter paper, which are analyzed for iodines and principal gamma emitters. Particulate filter papers are composited and analyzed for gross alpha, Fe-55, Sr-89 and Sr-90. Noble gases, gross beta and gamma are continuously monitored by noble gas monitors for the SVS and the SGBT System.
- 5) The LaSalle County Station estimate of 17.10 Ci/Unit/year of C-14 (as total C-14 released) is based upon a normalized C-14 production rate of 5.1 Ci/GWt-yr, a gaseous release fraction of 0.99, a reactor power rating of 3546 MWt (per Unit) and equivalent full power operation of 348.5 days (per Unit).

**b. Liquid Effluents**

- 1) Batch waste release tanks are sampled each batch for principal gamma emitters, I-131, dissolved and entrained noble gases, H-3, gross alpha, Sr-89, Sr-90 and Fe-55.

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- 2) Continuous releases are sampled continuously in proportion to the rate of flow of the effluent stream and by grab sample. Samples are analyzed for principal gamma emitters, I-131, dissolved and entrained noble gases, H-3, gross alpha, Sr-89, Sr-90 and Fe-55.

**5. Batch Releases**

a. Gaseous

- |   |      |
|---|------|
| 1) Number of batch releases:                | None |
| 2) Total time period for batch releases:    | N/A  |
| 3) Maximum time period for a batch release: | N/A  |
| 4) Average time period for batch releases:  | N/A  |
| 5) Minimum time period for a batch release: | N/A  |

b. Liquid

- |   |      |
|---|------|
| 1) Number of batch releases:  | None |
| 2) Total time period for batch releases: Min.   | N/A  |
| 3) Maximum time period for a batch release: Min.  | N/A  |
| 4) Average time period for batch releases: Min.   | N/A  |
| 5) Minimum time period for a batch release: Min.  | N/A  |
| 6) Average stream flow during periods of release of effluent into a flowing stream: gpm | N/A  |

**6. Abnormal Releases**

a. Gaseous

- |                             |      |
|-----------------------------|------|
| 1) Number of releases:      | None |
| 2) Total activity released: | N/A  |

b. Liquid

- |                             |      |
|-----------------------------|------|
| 1) Number of releases:      | None |
| 2) Total activity released: | N/A  |

**7. Process Control Program**

Revision 11 of the Process Control Procedure (RW-AA-100) was implemented on June 17, 2015. The revision incorporated the following changes:

- In the Terms and Definitions section, the definitions were arranged in alphabetical order, and the definitions for Blending and Concentration Averaging were revised.

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
SUPPLEMENTAL INFORMATION**

- In the Terms and Definitions section, the terms for Classification Controlling Nuclides, Homogenous Waste, Mixable Waste, and Nuclides of Concern were added.
- The order of the references section was updated.
- Reference documents were added including: the applicable sections of the Updated Final Safety Analysis Reports (UFSAR) from various nuclear sites across the Exelon Fleet; the NRC Concentration Averaging and Encapsulation Branch Technical Position, NRC-2011-0022; and Exelon Procedure RM-AA-101, Records Management Program.

There were no changes to the Process Control Program processing systems or components. There was no use of a solidification agent (e.g. cement, urea formaldehyde, etc.) during the processing of solid radioactive waste.

8. Effluent Monitoring Instrumentation time clocks and sample anomalies.

a. Time clocks:

There were no effluent monitoring time clocks exceeded in 2015.

b. Sample anomalies:

There were no sampling anomalies affecting the measurement of effluents experienced during 2015.

9. Offsite Dose Calculation Manual (ODCM) Revisions.

There was one revision made to the ODCM in 2015. Revision 6 implemented various editorial and grammatical changes including the addition of the definition for "POSITION INDICATION VERIFICATION" related to the Blowdown Flow Control Valve position indication and the re-insertion of historical Table 4-6.

Due to typographical error, the cover page of ODCM Revision 6 incorrectly indicates that Revision 6 was implemented on November 26, 2014. The implementation date for Revision 6 was January 6, 2015.

Each change had a determination performed, in accordance with ODCM revision procedures, to ensure the change would not adversely impact accuracy or reliability of effluent, dose or set point calculations and will maintain the level of radiological effluent controls established by regulatory requirements. The determinations indicated no adverse impacts.

A copy of the ODCM Change Summary Matrix for revision 6 has been included as Appendix A to this report. Also, a copy of revision 6 to the ODCM has been included as Appendix B to this report. All changes in revision 6 to the LaSalle Station ODCM became effective January 6, 2015.

10. Independent Spent Fuel Storage Installation (ISFSI).

During the period April 1, 2015 through April 1, 2016, no radioactive effluents were released from the LaSalle Nuclear Station Independent Spent Fuel Storage Installation. Also during this period, 8 casks were transferred to the outdoor concrete ISFSI storage pad.

**LASALLE COUNTY NUCLEAR POWER STATION**  
**EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)**  
**UNIT 1 AND UNIT 2**  
**DOCKET NUMBERS 50-373 AND 50-374**  
**GASEOUS EFFLUENTS SUMMATION OF ALL RELEASES**

<b>A. Fission &amp; Activation Gases</b>	<b>Unit</b>	<b>Quarter 1</b>	<b>Quarter 2</b>	<b>Quarter 3</b>	<b>Quarter4</b>	<b>Est. Total Error %</b>
1. Total Release	Ci	2.78E+02	5.72E+02	1.42E+03	7.16E+02	2.50E+01
2. Average release rate for the period	$\mu\text{Ci/sec}$	3.58E+01	7.28E+01	1.79E+02	9.01E+01	
3. Percent of ODCM limit	%	*	*	*	*	

  

<b>B. Iodine</b>						
1. Total Iodine - 131	Ci	2.74E-02	7.30E-03	1.15E-02	5.45E-03	1.50E+01
2. Average release rate for the period	$\mu\text{Ci/sec}$	3.52E-03	9.28E-04	1.44E-03	6.86E-04	
3. Percent of ODCM limit	%	*	*	*	*	

  

<b>C. Particulates</b>						
1. Particulates with half-lives > 8 days	Ci	4.27E-03	5.50E-03	5.47E-03	2.26E-03	3.50E+01
2. Average release rate for the period	$\mu\text{Ci/sec}$	5.49E-04	6.99E-04	6.88E-04	2.84E-04	
3. Percent of ODCM limit	%	*	*	*	*	

  

<b>D. Tritium</b>						
1. Total Release	Ci	5.45E+00	5.05E+00	7.11E+00	5.95E+00	1.50E+01
2. Average release rate for the period	$\mu\text{Ci/sec}$	7.01E-01	6.43E-01	8.95E-01	7.49E-01	
3. Percent of ODCM limit	%	*	*	*	*	

  

<b>E. Gross Alpha</b>						
1. Total Release	Ci	<LLD	<LLD	<LLD	<LLD	N/A
2. Average release rate for the period	$\mu\text{Ci/sec}$	<LLD	<LLD	<LLD	<LLD	
3. Percent of ODCM limit	%	*	*	*	*	

  

<b>F. Carbon-14</b>						
1. Total Release	Ci	8.55E+00	8.55E+00	8.55E+00	8.55E+00	
2. Average release rate for the period	$\mu\text{Ci/sec}$	1.10E+00	1.09E+00	1.07E+00	1.07E+00	
3. Percent of ODCM 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  $\mu\text{Ci/ml}$

**LASALLE COUNTY NUCLEAR POWER STATION**  
**EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)**  
**GASEOUS EFFLUENTS ELEVATED RELEASE UNIT 1 AND UNIT 2**

Nuclides Released		Continuous Mode				Batch Mode			
	Unit	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Quarter 1	Quarter 2	Quarter 3	Quarter 4
<b>A. Fission gases</b>									
Kr-85m	Ci	9.40E+01	1.52E+02	1.74E+02	2.10E+02	N/A	N/A	N/A	N/A
Kr-87	Ci	<LLD	3.31E+01	<LLD	7.75E+00	N/A	N/A	N/A	N/A
Kr-88	Ci	1.00E+02	2.20E+02	2.25E+02	2.73E+02	N/A	N/A	N/A	N/A
Xe-133m	Ci	<LLD	<LLD	1.19E+01	<LLD	N/A	N/A	N/A	N/A
Xe-133	Ci	7.09E+01	1.62E+02	8.64E+02	2.22E+02	N/A	N/A	N/A	N/A
Xe-135	Ci	7.33E+00	4.76E+00	1.13E+02	2.69E-04	N/A	N/A	N/A	N/A
Xe-135m	Ci	6.04E+00	<LLD	6.12E+00	3.25E+00	N/A	N/A	N/A	N/A
Xe-138	Ci	<LLD	<LLD	3.04E+01	<LLD	N/A	N/A	N/A	N/A
Ar-41	Ci	6.88E-03	6.38E-03	5.69E-03	<LLD	N/A	N/A	N/A	N/A
Total for Period	Ci	2.78E+02	5.72E+02	1.42E+03	7.16E+02	N/A	N/A	N/A	N/A
<b>B. Iodines</b>									
I-131	Ci	2.74E-02	7.30E-03	1.15E-02	5.45E-03	N/A	N/A	N/A	N/A
I-132	Ci	3.22E-02	1.25E-02	1.22E-02	7.35E-03	N/A	N/A	N/A	N/A
I-133	Ci	4.86E-02	2.06E-02	2.90E-02	1.60E-02	N/A	N/A	N/A	N/A
I-134	Ci	1.15E-02	3.03E-03	<LLD	<LLD	N/A	N/A	N/A	N/A
I-135	Ci	5.00E-02	2.61E-02	2.87E-02	1.29E-02	N/A	N/A	N/A	N/A
Total for Period	Ci	1.70E-01	6.94E-02	8.13E-02	4.17E-02	N/A	N/A	N/A	N/A
Tot. I-131,I-133,I-135	Ci	1.26E-01	5.39E-02	6.92E-02	3.44E-02	N/A	N/A	N/A	N/A
<b>C. Particulates</b>									
Mn-54	Ci	6.67E-06	<LLD	5.19E-05	<LLD	N/A	N/A	N/A	N/A
Fe-55	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Co-58	Ci	3.52E-04	3.06E-04	2.98E-04	3.09E-05	N/A	N/A	N/A	N/A
Fe-59	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Co-60	Ci	7.14E-04	9.24E-04	9.46E-04	2.62E-04	N/A	N/A	N/A	N/A
Zn-65	Ci	2.45E-04	3.06E-04	2.93E-04	2.45E-05	N/A	N/A	N/A	N/A
Sr-89	Ci	1.98E-04	3.00E-04	2.42E-04	1.96E-04	N/A	N/A	N/A	N/A
Sr-90	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Zr-95	Ci	1.10E-5	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Mo-99	Ci	3.02E-04	4.82E-04	5.51E-04	1.63E-04	N/A	N/A	N/A	N/A
Cs-134	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Cs-137	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Ba-140	Ci	9.03E-04	1.09E-03	1.13E-03	4.03E-04	N/A	N/A	N/A	N/A
La-140	Ci	1.54E-03	2.09E-03	1.96E-03	1.18E-03	N/A	N/A	N/A	N/A
Ce-141	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Ce-144	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Total for Period	Ci	4.27E-03	5.50E-03	5.47E-03	2.26E-03	N/A	N/A	N/A	N/A
<b>D. Tritium</b>									
H-3 Total for Period	Ci	5.45E+00	5.05E+00	7.11E+00	5.95E+00	N/A	N/A	N/A	N/A
<b>E. Gross Alpha</b>									
Gross Alpha Total for Period	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
<b>F. Carbon-14</b>									
C-14 Total for Period	Ci	8.55E+00	8.55E+00	8.55E+00	8.55E+00	N/A	N/A	N/A	N/A

**LASALLE COUNTY NUCLEAR POWER STATION**  
**EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)**  
**LIQUID RELEASES**  
**UNIT 1 AND UNIT 2**  
**SUMMATION OF ALL LIQUID RELEASES**

<b>A. Fission &amp; Activation Products</b>	<b>Unit</b>	<b>Quarter 1</b>	<b>Quarter 2</b>	<b>Quarter 3</b>	<b>Quarter4</b>	<b>Est. Total Error %</b>
1. Total Release (not including tritium, gases & alpha)	Ci	<LLD	<LLD	<LLD	<LLD	N/A
2. Average diluted concentration during period	$\mu\text{Ci/mL}$	<LLD	<LLD	<LLD	<LLD	
3. Percent of applicable limit	%	*	*	*	*	

  

<b>B. Tritium</b>						
1. Total Release	Ci	<LLD	<LLD	<LLD	<LLD	N/A
2. Average diluted concentration during period	$\mu\text{Ci/mL}$	<LLD	<LLD	<LLD	<LLD	
3. Percent of applicable limit	%	*	*	*	*	

  

<b>C. Dissolved &amp; Entrained Gases</b>						
1. Total Release	Ci	<LLD	<LLD	<LLD	<LLD	N/A
2. Average diluted concentration during period	$\mu\text{Ci/mL}$	<LLD	<LLD	<LLD	<LLD	
3. Percent of applicable limit	%	*	*	*	*	

  

<b>D. Gross Alpha Activity</b>						
1. Total Release	Ci	<LLD	<LLD	<LLD	<LLD	N/A
2. Average release rate for the period	$\mu\text{Ci/mL}$	<LLD	<LLD	<LLD	<LLD	
3. Percent of ODCM limit	%	*	*	*	*	

  

<b>E. Volume of Waste Released (prior to dilution)</b>	<b>Liters</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>F. Volume of Dilution Water Used During Period</b>	<b>Liters</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>

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

"<" Indicates activity of sample is less than LLD given in  $\mu\text{Ci/ml}$

**LASALLE COUNTY NUCLEAR POWER STATION**  
**EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)**  
**LIQUID RELEASES**  
**UNIT 1 AND UNIT 2**

Nuclides Released		Continuous Mode				Batch Mode			
		Quarter 1	Quarter 2	Quarter 3	Quarter 4	Quarter 1	Quarter 2	Quarter 3	Quarter 4
A. Fission & Activation Products	Unit	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Mn-54	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Fe-55	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Co-58	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Fe-59	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Co-60	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Zn-65	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Sr-89	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Sr-90	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Mo-99	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
I-131	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Cs-134	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Cs-137	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Ce-141	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Ce-144	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Total for Period	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
B. H-3									
H-3 Total for Period	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
C. Dissolved & Entrained Gasses									
Kr-85m	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Kr-85	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Kr-87	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Kr-88	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Xe-131m	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Xe-133m	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Xe-133	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Xe-135m	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Xe-135	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Ar-41	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Total for Period	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
D. Gross Alpha									
Gross Alpha Total for Period	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A

**LASALLE COUNTY NUCLEAR POWER STATION**  
**EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)**  
**SOLID WASTE AND IRRADIATED FUEL SHIPMENTS**  
**FIRST QUARTER**

**A. Solid Waste Shipped Offsite for Burial or Disposal (Not irradiated fuel)**

**1. Types of Waste**

Types of Waste	Total Quantity (m <sup>3</sup> )	Total Activity (Ci)	Period	Est. Total Error (%)
a. Spent resins, filter sludges, evaporator bottoms, etc.	5.01E+00	9.01E-01	1Q15	+/-25%
b. Dry compressible waste, contaminated equip, etc.	9.19E+02	1.33E+00	1Q15	+/-25%
c. Irradiated components, control rods, etc.	None	None	1Q15	N/A
d. Other (Oil, EHC fluid, sump waste, etc.)	1.42E+01	2.02E-03	1Q15	+/-25%

**2. Estimate of major nuclide composition (by waste type)**

Major Nuclide Composition	Percent Abundance ( $\geq 1\%$ )		Shipment Type(s)
a. Spent resins, filter sludges, evaporator bottoms, etc.			
Mn-54	3.91%		LSA
Fe-55	12.47%		
Co-58	1.54%		
Co-60	72.24%		
Zn-65	1.48%		
Cs-137	4.23%		
b. Dry compressible waste, contaminated equip, etc.			
H-3	2.98%		LSA
Mn-54	1.15%		
Fe-55	22.32%		
Co-60	70.61%		
Zn-65	1.13%		
c. Irradiated components, control rods, etc.			
None		N/A	N/A
d. Other (Oil, EHC fluid, sump waste etc.)			
H-3	1.58%		LSA
Fe-55	14.61%		
Co-60	78.21%		
Zn-65	2.18%		

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS  
FIRST QUARTER**

**3. Solid Waste Disposition**

Number of Shipments	Mode of Transportation	Destination
14	Hittman Transport	Energy Solutions - Bear Creek Facility, Oak Ridge, TN
1	Hittman Transport	Energy Solutions, Clive Facility, Tooele County, UT
2	Interstate Ventures	Energy Solutions - Bear Creek Facility, Oak Ridge, TN

**B. Irradiated Fuel Shipments (disposition)**

Number of Shipments	Mode of Transportation	Destination
None	N/A	N/A

**C. Changes to the Process Control Program**

There were no changes to the Process Control Program during this period. There was no use of a solidification agent (e.g. cement, urea formaldehyde, etc.) during the processing of solid radioactive waste.

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS  
SECOND QUARTER**

**A. Solid Waste Shipped Offsite for Burial or Disposal (Not irradiated fuel)**

**1. Types of Waste**

Types of Waste	Total Quantity (m <sup>3</sup> )	Total Activity (Ci)	Period	Est. Total Error (%)
a. Spent resins, filter sludges, evaporator bottoms, etc.	2.51E+01	5.11E+00	2Q15	+/-25%
b. Dry compressible waste, contaminated equip, etc.	1.51E+02	3.74E+00	2Q15	+/-25%
c. Irradiated components, control rods, etc.	None	None	2Q15	N/A
d. Other (Oil, EHC fluid, sump waste, etc.)	None	None	2Q15	N/A

**2. Estimate of major nuclide composition (by waste type)**

Major Nuclide Composition	Percent Abundance ( $\geq 1\%$ )	Shipment Type(s)
a. Spent resins, filter sludges, evaporator bottoms, etc.		
Mn-54	2.80%	LSA
Fe-55	14.50%	
Co-60	67.72%	
Zn-65	1.20%	
Cs-137	9.44%	
b. Dry compressible waste, contaminated equip, etc.		
Fe-55	16.86%	LSA
Co-60	78.40%	
Zn-65	1.56%	
c. Irradiated components, control rods, etc.		
None	None	N/A
d. Other (Oil, EHC fluid, sump waste etc.)		
None	None	N/A

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS  
SECOND QUARTER**

**3. Solid Waste Disposition**

Number of Shipments	Mode of Transportation	Destination
1	Cast Transportation	Energy Solutions - Bear Creek Facility, Oak Ridge, TN
5	Hittman Transport	Energy Solutions - Bear Creek Facility, Oak Ridge, TN
4	Hittman Transport	Energy Solutions, Clive Facility, Tooele County, UT
1	Interstate Ventures	Energy Solutions, Clive Facility, Tooele County, UT

**B. Irradiated Fuel Shipments (disposition)**

Number of Shipments	Mode of Transportation	Destination
None	N/A	N/A

**C. Changes to the Process Control Program**

Revision 11 of the Process Control Procedure (RW-AA-100) was implemented on June 17, 2015. The revision incorporated the following changes:

- In the Terms and Definitions section, the definitions were arranged in alphabetical order, and the definitions for Blending and Concentration Averaging were revised.
- In the Terms and Definitions section, the terms for Classification Controlling Nuclides, Homogenous Waste, Mixable Waste, and Nuclides of Concern were added.
- The order of the references section was updated.
- Reference documents were added including: the applicable sections of the Updated Final Safety Analysis Reports (UFSAR) from various nuclear sites across the Exelon Fleet; the NRC Concentration Averaging and Encapsulation Branch Technical Position, NRC-2011-0022; and Exelon Procedure RM-AA-101, Records Management Program.

There were no changes to the Process Control Program processing systems or components during this period. There was no use of a solidification agent (e.g. cement, urea formaldehyde, etc.) during the processing of solid radioactive waste.

**LASALLE COUNTY NUCLEAR POWER STATION**  
**EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)**  
**SOLID WASTE AND IRRADIATED FUEL SHIPMENTS**  
**THIRD QUARTER**

**A. Solid Waste Shipped Offsite for Burial or Disposal (Not irradiated fuel)**

**1. Types of Waste**

Types of Waste	Total Quantity (m <sup>3</sup> )	Total Activity (Ci)	Period	Est. Total Error (%)
a. Spent resins, filter sludges, evaporator bottoms, etc.	2.79E+01	2.30E+01	3Q15	+/-25%
b. Dry compressible waste, contaminated equip, etc.	6.95E+01	1.01E+01	3Q15	+/-25%
c. Irradiated components, control rods, etc.	None	None	3Q15	N/A
d. Other (Oil, EHC fluid, sump waste, etc.)	None	None	3Q15	N/A

**2. Estimate of major nuclide composition (by waste type)**

Major Nuclide Composition	Percent Abundance ( $\geq 1\%$ )		Shipment Type(s)
a. Spent resins, filter sludges, evaporator bottoms, etc.			
Mn-54	2.09%	LSA	
Fe-55	18.64%		
Co-60	63.47%		
Ni-63	1.04%		
Cs-137	11.14%		
b. Dry compressible waste, contaminated equip, etc.			
Mn-54	1.14%	LSA	
Fe-55	22.71%		
Co-60	71.82%		
Zn-65	1.73%		
c. Irradiated components, control rods, etc.			
None	None	N/A	
d. Other (Oil, EHC fluid, sump waste, etc.)			
None	None	N/A	

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS  
THIRD QUARTER**

**3. Solid Waste Disposition**

Number of Shipments	Mode of Transportation	Destination
4	Hittman Transport	Energy Solutions - Bear Creek Facility, Oak Ridge, TN
6	Hittman Transport	Energy Solutions, Clive Facility, Tooele County, UT

**B. Irradiated Fuel Shipments (disposition)**

Number of Shipments	Mode of Transportation	Destination
None	N/A	N/A

**C. Changes to the Process Control Program**

There were no changes to the Process Control Program during this period. There was no use of a solidification agent (e.g. cement, urea formaldehyde, etc.) during the processing of solid radioactive waste.

**LASALLE COUNTY NUCLEAR POWER STATION**  
**EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)**  
**SOLID WASTE AND IRRADIATED FUEL SHIPMENTS**  
**FOURTH QUARTER**

**A. Solid Waste Shipped Offsite for Burial or Disposal (Not irradiated fuel)**

**1. Types of Waste**

Types of Waste	Total Quantity (m <sup>3</sup> )	Total Activity (Ci)	Period	Est. Total Error %
a. Spent resins, filter sludges, evaporator bottoms, etc.	2.72E+01	2.38E+01	4Q15	+/-25%
b. Dry compressible waste, contaminated equip, etc.	1.33E+02	1.29E+01	4Q15	+/-25%
c. Irradiated components, control rods, etc.	None	None	4Q15	N/A
d. Other (Oil, EHC fluid, sump waste, etc.)	None	None	4Q15	N/A

**2. Estimate of major nuclide composition (by waste type)**

Major Nuclide Composition	Percent Abundance ( $\geq 1\%$ )		Shipment Type(s)
a. Spent resins, filter sludges, evaporator bottoms, etc.			
C-14	8.85%	LSA	
Mn-54	1.67%		
Fe-55	15.24%		
Co-60	68.10%		
Ni-63	1.06%		
Cs-137	3.08%		
b. Dry compressible waste, contaminated equip, etc.			
Mn-54	1.37%	LSA	
Fe-55	33.96%		
Co-60	61.56%		
Zn-65	1.05%		
c. Irradiated components, control rods, etc.			
None	None	N/A	
d. Other (Oil, EHC fluid, sump waste, etc.)			
None	None	N/A	

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS  
FOURTH QUARTER**

**3. Solid Waste Disposition**

Number of Shipments	Mode of Transportation	Destination
4	Hittman Transport	Energy Solutions - Bear Creek Facility, Oak Ridge, TN
7	Hittman Transport	Energy Solutions, Clive Facility, Tooele County, UT

**B. Irradiated Fuel Shipments (disposition)**

Number of Shipments	Mode of Transportation	Destination
None	N/A	N/A

**C. Changes to the Process Control Program**

There were no changes to the Process Control Program during this period. There was no use of a solidification agent (e.g. cement, urea formaldehyde, etc.) during the processing of solid radioactive waste.

**LASALLE COUNTY NUCLEAR POWER STATION**  
**EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)**  
**RADIOLOGICAL IMPACT ON MAN**  
**MAXIMUM DOSES RESULTING FROM GASEOUS RELEASES AND COMPLIANCE STATUS**

<b>Infant Receptor</b>	<b>Quarterly Limit</b>	<b>Units</b>	<b>1st Quarter</b>	<b>% of Limit</b>	<b>2nd Quarter</b>	<b>% of Limit</b>	<b>3rd Quarter</b>	<b>% of Limit</b>	<b>4th Quarter</b>	<b>% of Limit</b>	<b>Annual Limit</b>	<b>% of Limit</b>
Gamma Air	5.00E+00	mRad	3.51E-03	0.07	7.90E-03	0.16	8.89E-03	0.18	9.41E-03	0.19	1.00E+01	0.30
Beta Air	1.00E+01	mRad	1.54E-04	0.002	3.94E-04	0.004	6.31E-04	0.006	4.10E-04	0.004	2.00E+01	0.01
NG Total Body	2.50E+00	mRem	2.34E-03	0.09	5.27E-03	0.21	5.93E-03	0.24	6.28E-03	0.25	5.00E+00	0.40
NG Skin	7.50E+00	mRem	3.94E-03	0.05	8.91E-03	0.12	1.00E-02	0.13	1.06E-02	0.14	1.50E+01	0.22
NNG Organ	7.50E+00	mRem	1.33E-01	1.77	3.69E-02	0.49	5.69E-02	0.76	2.79E-02	0.37	1.50E+01	1.70
<b>Child Receptor</b>	<b>Quarterly Limit</b>	<b>Units</b>	<b>1st Quarter</b>	<b>% of Limit</b>	<b>2nd Quarter</b>	<b>% of Limit</b>	<b>3rd Quarter</b>	<b>% of Limit</b>	<b>4th Quarter</b>	<b>% of Limit</b>	<b>Annual Limit</b>	<b>% of Limit</b>
Gamma Air	5.00E+00	mRad	3.51E-03	0.07	7.90E-03	0.16	8.89E-03	0.18	9.41E-03	0.19	1.00E+01	0.30
Beta Air	1.00E+01	mRad	1.54E-04	0.002	3.94E-04	0.004	6.31E-04	0.006	4.10E-04	0.004	2.00E+01	0.01
NG Total Body	2.50E+00	mRem	2.34E-03	0.09	5.27E-03	0.21	5.93E-03	0.24	6.28E-03	0.25	5.00E+00	0.40
NG Skin	7.50E+00	mRem	3.94E-03	0.05	8.91E-03	0.12	1.00E-02	0.13	1.06E-02	0.14	1.50E+01	0.22
NNG Organ	7.50E+00	mRem	5.49E-02	0.73	1.54E-02	0.21	2.37E-02	0.31	1.16E-02	0.15	1.50E+01	0.70
<b>Teenager Receptor</b>	<b>Quarterly Limit</b>	<b>Units</b>	<b>1st Quarter</b>	<b>% of Limit</b>	<b>2nd Quarter</b>	<b>% of Limit</b>	<b>3rd Quarter</b>	<b>% of Limit</b>	<b>4th Quarter</b>	<b>% of Limit</b>	<b>Annual Limit</b>	<b>% of Limit</b>
Gamma Air	5.00E+00	mRad	3.51E-03	0.07	7.90E-03	0.16	8.89E-03	0.18	9.41E-03	0.19	1.00E+01	0.30
Beta Air	1.00E+01	mRad	1.54E-04	0.002	3.94E-04	0.004	6.31E-04	0.006	4.10E-04	0.004	2.00E+01	0.01
NG Total Body	2.50E+00	mRem	2.34E-03	0.09	5.27E-03	0.21	5.93E-03	0.24	6.28E-03	0.25	5.00E+00	0.40
NG Skin	7.50E+00	mRem	3.94E-03	0.05	8.91E-03	0.12	1.00E-02	0.13	1.06E-02	0.14	1.50E+01	0.22
NNG Organ	7.50E+00	mRem	2.78E-02	0.37	7.75E-03	0.10	1.19E-02	0.16	5.83E-03	0.08	1.50E+01	0.36
<b>Adult Receptor</b>	<b>Quarterly Limit</b>	<b>Units</b>	<b>1st Quarter</b>	<b>% of Limit</b>	<b>2nd Quarter</b>	<b>% of Limit</b>	<b>3rd Quarter</b>	<b>% of Limit</b>	<b>4th Quarter</b>	<b>% of Limit</b>	<b>Annual Limit</b>	<b>% of Limit</b>
Gamma Air	5.00E+00	mRad	3.51E-03	0.07	7.90E-03	0.16	8.89E-03	0.18	9.41E-03	0.19	1.00E+01	0.30
Beta Air	1.00E+01	mRad	1.54E-04	0.002	3.94E-04	0.004	6.31E-04	0.006	4.10E-04	0.004	2.00E+01	0.01
NG Total Body	2.50E+00	mRem	2.34E-03	0.09	5.27E-03	0.21	5.93E-03	0.24	6.28E-03	0.25	5.00E+00	0.40
NG Skin	7.50E+00	mRem	3.94E-03	0.05	8.91E-03	0.12	1.00E-02	0.13	1.06E-02	0.14	1.50E+01	0.22
NNG Organ	7.50E+00	mRem	1.76E-02	0.23	4.91E-03	0.07	7.56E-03	0.10	3.67E-03	0.05	1.50E+01	0.22

The LaSalle County Nuclear Power Station maximum expected annual dose from Carbon-14 has been calculated using the maximum gross thermal capacity at full power operation. The resultant bounding doses are based upon site specific assumptions of source term.

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)**

**RADIOLOGICAL IMPACT ON MAN**

**MAXIMUM DOSES RESULTING FROM LIQUID RELEASES AND COMPLIANCE STATUS**

<b>Infant Receptor</b>	<b>Quarterly Limit</b>	<b>Units</b>	<b>1st Quarter</b>	<b>% of Limit</b>	<b>2nd Quarter</b>	<b>% of Limit</b>	<b>3rd Quarter</b>	<b>% of Limit</b>	<b>4th Quarter</b>	<b>% of Limit</b>	<b>Annual Limit</b>	<b>% of Limit</b>
<b>10CFR50 Appendix I compliance</b>												
Total Body	1.50E+00	mRem	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	3.00E+00	0.00
Organ	5.00E+00	mRem	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	1.00E+01	0.00
<b>40CFR141 compliance (nearest public drinking water)</b>												
Total Body		mRem	0.00E+00		0.00E+00		0.00E+00		0.00E+00		4.00E+00	0.00
Organ		mRem	0.00E+00		0.00E+00		0.00E+00		0.00E+00		4.00E+00	0.00
<b>Child Receptor</b>	<b>Quarterly Limit</b>	<b>Units</b>	<b>1st Quarter</b>	<b>% of Limit</b>	<b>2nd Quarter</b>	<b>% of Limit</b>	<b>3rd Quarter</b>	<b>% of Limit</b>	<b>4th Quarter</b>	<b>% of Limit</b>	<b>Annual Limit</b>	<b>% of Limit</b>
<b>10CFR50 Appendix I compliance</b>												
Total Body	1.50E+00	mRem	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	3.00E+00	0.00
Organ	5.00E+00	mRem	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	1.00E+01	0.00
<b>40CFR141 compliance (nearest public drinking water)</b>												
Total Body		mRem	0.00E+00		0.00E+00		0.00E+00		0.00E+00		4.00E+00	0.00
Organ		mRem	0.00E+00		0.00E+00		0.00E+00		0.00E+00		4.00E+00	0.00
<b>Teenager Receptor</b>	<b>Quarterly Limit</b>	<b>Units</b>	<b>1st Quarter</b>	<b>% of Limit</b>	<b>2nd Quarter</b>	<b>% of Limit</b>	<b>3rd Quarter</b>	<b>% of Limit</b>	<b>4th Quarter</b>	<b>% of Limit</b>	<b>Annual Limit</b>	<b>% of Limit</b>
<b>10CFR50 Appendix I compliance</b>												
Total Body	1.50E+00	mRem	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	3.00E+00	0.00
Organ	5.00E+00	mRem	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	1.00E+01	0.00
<b>40CFR141 compliance (nearest public drinking water)</b>												
Total Body		mRem	0.00E+00		0.00E+00		0.00E+00		0.00E+00		4.00E+00	0.00
Organ		mRem	0.00E+00		0.00E+00		0.00E+00		0.00E+00		4.00E+00	0.00
<b>Adult Receptor</b>	<b>Quarterly Limit</b>	<b>Units</b>	<b>1st Quarter</b>	<b>% of Limit</b>	<b>2nd Quarter</b>	<b>% of Limit</b>	<b>3rd Quarter</b>	<b>% of Limit</b>	<b>4th Quarter</b>	<b>% of Limit</b>	<b>Annual Limit</b>	<b>% of Limit</b>
<b>10CFR50 Appendix I compliance</b>												
Total Body	1.50E+00	mRem	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	3.00E+00	0.00
Organ	5.00E+00	mRem	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	1.00E+01	0.00
<b>40CFR141 compliance (nearest public drinking water)</b>												
Total Body		mRem	0.00E+00		0.00E+00		0.00E+00		0.00E+00		4.00E+00	0.00
Organ		mRem	0.00E+00		0.00E+00		0.00E+00		0.00E+00		4.00E+00	0.00

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
RADIOLOGICAL IMPACT ON MAN  
MAXIMUM DOSES RESULTING FROM RELEASES AND COMPLIANCE STATUS**

**10CFR20 / 40CFR190 Compliance**

<b>1<sup>st</sup> Quarter</b>	<b>2<sup>nd</sup> Quarter</b>	<b>3<sup>rd</sup> Quarter</b>	<b>4<sup>th</sup> Quarter</b>	<b>Annual Dose (mRem)</b>	<b>Annual Limit (mRem/yr)</b>	<b>% Annual Limit</b>
Dose (mRem)	Dose (mRem)	Dose (mRem)	Dose (mRem)			

**Unit 1**

**40CFR190 Compliance**

<b>U1 D<sup>Ex</sup></b>	9.92E-02	1.02E-01	1.02E-01	1.05E-01	4.09E-01	25	1.63
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**10CFR20 Compliance**

<b>U1 D<sup>Tot</sup></b>	2.32E-01	1.39E-01	1.59E-01	1.33E-01	6.63E-01	100	0.66
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**40CFR190 Compliance**

<b>Bone</b>	7.33E-03	7.10E-03	7.16E-03	7.00E-03	2.86E-02	25	0.11
<b>Liver</b>	1.97E-03	1.70E-03	1.77E-03	1.58E-03	7.03E-03	25	0.03
<b>Thyroid</b>	1.33E-01	3.69E-02	5.70E-02	2.79E-02	2.55E-01	75	0.34
<b>Kidney</b>	2.03E-03	1.71E-03	1.78E-03	1.60E-03	7.12E-03	25	0.03
<b>Lung</b>	1.55E-03	1.57E-03	1.57E-03	1.50E-03	6.19E-03	25	0.02
<b>GI-LLI</b>	1.58E-03	1.59E-03	1.60E-03	1.51E-03	6.28E-03	25	0.03

**Unit 2**

**40CFR190 Compliance**

<b>U2 D<sup>Ex</sup></b>	5.29E-02	9.46E-02	8.66E-02	9.89E-02	3.33E-01	25	1.33
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**10CFR20 Compliance**

<b>U2 D<sup>Tot</sup></b>	5.29E-02	9.46E-02	8.66E-02	9.89E-02	3.33E-01	100	0.33
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**40CFR190 Compliance**

<b>Bone</b>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	25	0.00
<b>Liver</b>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	25	0.00
<b>Thyroid</b>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	75	0.00
<b>Kidney</b>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	25	0.00
<b>Lung</b>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	25	0.00
<b>GI-LLI</b>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	25	0.00

**LASALLE COUNTY NUCLEAR POWER STATION**  
**EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)**  
**METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: January - March 2015  
 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	26	5	12	0	0	43
NNE	1	4	3	10	2	0	20
NE	0	1	2	6	0	0	9
ENE	0	1	3	5	0	0	9
E	2	6	4	1	0	0	13
ESE	1	7	8	0	0	0	16
SE	2	1	0	1	0	0	4
SSE	0	4	1	0	2	0	7
S	0	4	3	1	0	0	8
SSW	0	1	1	0	0	0	2
SW	0	2	5	1	1	0	9
WSW	1	4	1	3	1	0	10
W	0	0	4	5	0	0	9
WNW	1	3	9	6	0	0	19
NW	0	5	1	2	0	0	8
NNW	1	9	6	1	3	0	20
Variable	0	0	0	0	0	0	0
Total	9	78	56	54	9	0	206

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 0

Hours of missing stability measurements in all stability classes: 4

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: January - March 2015  
 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	5	0	0	8
NNE	0	0	2	0	0	0	2
NE	0	0	0	3	0	0	3
ENE	0	0	0	1	0	0	1
E	0	1	0	1	1	0	3
ESE	1	0	0	0	1	0	2
SE	0	0	0	2	0	0	2
SSE	0	0	0	0	0	0	0
S	0	1	1	0	0	0	2
SSW	1	1	0	0	0	0	2
SW	0	0	0	0	0	0	0
WSW	0	0	2	3	0	0	5
W	2	0	1	0	0	0	3
WNW	0	1	0	0	2	0	3
NW	0	0	1	2	0	0	3
NNW	0	0	2	1	1	0	4
Variable	0	0	0	0	0	0	0
Total	4	5	11	18	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: 4

**LASALLE COUNTY NUCLEAR POWER STATION**  
**EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)**  
**METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: January - March 2015  
 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	7	4	0	0	13
NNE	0	2	7	3	0	0	12
NE	0	0	3	0	0	0	3
ENE	0	0	1	6	0	0	7
E	0	0	0	3	1	0	4
ESE	0	0	1	5	1	0	7
SE	0	1	0	2	0	0	3
SSE	0	0	2	0	0	0	2
S	0	1	0	0	0	0	1
SSW	0	0	3	0	0	0	3
SW	0	2	1	2	0	0	5
WSW	1	2	0	1	3	0	7
W	0	3	5	4	0	0	12
WNW	0	1	2	1	0	0	4
NW	0	0	3	5	1	0	9
NNW	0	0	3	5	2	0	10
Variable	0	0	0	0	0	0	0
Total	1	14	38	41	8	0	102

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 COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: January - March 2015  
 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	12	34	16	0	0	63
NNE	0	4	8	3	0	0	15
NE	0	1	3	1	0	0	5
ENE	0	5	7	19	2	0	33
E	1	9	14	15	4	0	43
ESE	2	10	18	6	2	0	38
SE	1	18	3	5	4	0	31
SSE	2	7	4	6	0	0	19
S	2	12	6	4	5	0	29
SSW	2	12	13	9	4	0	40
SW	4	11	20	19	4	0	58
WSW	2	15	25	10	3	1	56
W	0	12	17	17	4	0	50
WNW	2	14	29	39	15	0	99
NW	0	5	12	36	3	1	57
NNW	0	5	26	35	10	5	81
Variable	0	1	0	0	0	0	1
Total	19	153	239	240	60	7	718

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 COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: January - March 2015  
 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	10	14	2	0	0	28
NNE	3	8	0	1	0	0	12
NE	0	1	1	1	0	0	3
ENE	2	4	9	3	0	0	18
E	1	6	14	2	0	0	23
ESE	1	16	14	0	0	0	31
SE	3	16	5	1	0	0	25
SSE	3	9	3	1	11	0	27
S	1	8	11	12	5	0	37
SSW	1	9	19	8	1	0	38
SW	0	7	32	33	4	2	78
WSW	0	7	15	38	2	1	63
W	1	5	20	13	1	1	41
WNW	2	11	13	28	21	3	78
NW	3	7	35	4	0	0	49
NNW	0	10	29	21	3	2	65
Variable	0	0	0	0	0	0	0
Total	23	134	234	168	48	9	616

Hours of calm in this stability class: 1

Hours of missing wind measurements in this stability class: 0

Hours of missing stability measurements in all stability classes: 4

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: January - March 2015  
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	0	1	0	0	0	0	1
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	1	1	0	0	0	0	2
E	1	3	5	0	0	0	9
ESE	0	13	5	0	0	0	18
SE	1	11	3	0	0	0	15
SSE	6	11	6	1	0	0	24
S	2	7	4	5	0	0	18
SSW	3	14	17	11	0	0	45
SW	3	7	8	12	0	0	30
WSW	1	7	16	16	0	0	40
W	2	14	30	8	0	0	54
WNW	0	5	11	4	7	0	27
NW	2	3	4	0	0	0	9
NNW	1	3	1	0	0	0	5
Variable	0	0	0	0	0	0	0
Total	23	100	110	57	7	0	297

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 COUNTY NUCLEAR POWER STATION**  
**EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)**  
**METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: January - March 2015  
 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	6	5	0	0	0	11
ESE	0	8	1	0	0	0	9
SE	0	8	2	0	0	0	10
SSE	1	3	3	0	0	0	7
S	0	9	13	0	0	0	22
SSW	0	8	21	5	0	0	34
SW	1	5	4	8	0	0	18
WSW	1	6	2	13	0	0	22
W	0	6	8	0	0	0	14
WNW	0	12	13	0	0	0	25
NW	0	0	0	0	0	0	0
NNW	1	0	0	0	0	0	1
Variable	0	0	0	0	0	0	0
Total	4	71	72	26	0	0	173

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 COUNTY NUCLEAR POWER STATION**  
**EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)**  
**METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: January - March 2015  
 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	3	0	2	0	0	5
NNE	0	1	0	4	0	4	9
NE	0	0	0	1	1	0	2
ENE	0	0	0	1	1	0	2
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	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	4	0	9	2	4	19

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 COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: January - March 2015  
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	2	4	6	0	12
NNE	0	1	1	0	2	3	7
NE	0	0	0	0	0	3	3
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	2	2	0	4
SE	0	0	0	2	0	0	2
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	2	0	2
W	0	0	0	2	2	0	4
WNW	0	0	0	0	1	1	2
NW	0	0	1	0	3	0	4
NNW	0	0	1	1	0	0	2
Variable	0	0	0	0	0	0	0
Total	0	1	5	12	18	7	43

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 4

Hours of missing stability measurements in all stability classes: 4

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: January - March 2015  
 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	1	1	2	4	2	10
NNE	0	2	1	0	0	1	4
NE	0	0	0	0	1	0	1
ENE	0	0	0	1	3	2	6
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	2	0	0	0	2
SSE	0	0	0	0	0	1	1
S	0	0	3	0	0	0	3
SSW	0	0	0	1	0	0	1
SW	0	0	0	1	0	0	1
WSW	0	1	1	0	0	0	2
W	0	0	1	1	0	0	2
WNW	0	0	1	2	1	1	5
NW	0	0	3	1	2	2	8
NNW	0	0	2	1	0	0	3
Variable	0	0	0	0	0	0	0
Total	0	4	15	10	11	9	49

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 2

Hours of missing stability measurements in all stability classes: 4

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: January - March 2015  
 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	7	19	46	22	2	96
NNE	0	7	19	13	9	2	50
NE	0	6	7	8	2	0	23
ENE	0	5	13	8	28	2	56
E	1	3	15	8	14	7	48
ESE	0	6	12	13	8	3	42
SE	1	10	8	11	4	5	39
SSE	1	7	10	1	11	8	38
S	2	12	10	7	12	10	53
SSW	1	10	12	9	11	7	50
SW	0	5	15	28	12	5	65
WSW	1	13	18	24	17	8	81
W	0	13	11	12	16	12	64
WNW	1	8	17	18	25	41	110
NW	0	7	9	38	56	32	142
NNW	0	2	13	35	20	20	90
Variable	0	1	0	0	0	0	1
Total	8	122	208	279	267	164	1048

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 33

Hours of missing stability measurements in all stability classes: 4

**LASALLE COUNTY NUCLEAR POWER STATION**  
**EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)**  
**METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: January - March 2015  
 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	3	1	2	11	9	2	28
NNE	2	5	7	4	4	0	22
NE	0	5	7	4	0	0	16
ENE	1	2	8	2	2	0	15
E	0	4	4	6	6	0	20
ESE	1	3	11	4	2	0	21
SE	1	6	9	12	5	0	33
SSE	0	1	7	2	2	0	12
S	0	3	7	9	4	8	31
SSW	1	5	10	16	6	8	46
SW	1	7	8	22	37	28	103
WSW	0	0	5	10	22	24	61
W	1	4	5	12	29	15	66
WNW	4	3	9	8	15	28	67
NW	1	5	8	12	16	4	46
NNW	0	0	5	15	17	2	39
Variable	0	0	0	0	0	0	0
Total	16	54	112	149	176	119	626

Hours of calm in this stability class: 2

Hours of missing wind measurements in this stability class: 1

Hours of missing stability measurements in all stability classes: 4

**LASALLE COUNTY NUCLEAR POWER STATION**  
**EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)**  
**METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: January - March 2015  
 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	2	2	0	0	5
NNE	1	1	0	0	0	0	2
NE	0	1	0	1	0	0	2
ENE	2	2	0	1	1	0	6
E	2	1	0	3	0	0	6
ESE	0	4	1	2	2	2	11
SE	2	4	3	8	8	0	25
SSE	0	1	1	6	2	3	13
S	1	0	2	4	4	4	15
SSW	1	1	4	4	8	18	36
SW	0	1	9	11	11	14	46
WSW	0	3	3	4	4	13	27
W	0	1	1	2	2	12	18
WNW	0	0	1	9	24	2	36
NW	0	2	7	8	6	0	23
NNW	0	1	0	7	5	0	13
Variable	0	0	0	0	0	0	0
Total	9	24	34	72	77	68	284

Hours of calm in this stability class: 1

Hours of missing wind measurements in this stability class: 0

Hours of missing stability measurements in all stability classes: 4

**LASALLE COUNTY NUCLEAR POWER STATION**  
**EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)**  
**METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: January - March 2015  
 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	2	0	5	1	0	8
NNE	0	1	3	0	0	0	4
NE	0	1	0	0	0	0	1
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	1	4	0	5
SE	0	0	0	3	1	0	4
SSE	0	0	1	4	1	0	6
S	0	0	0	1	0	0	1
SSW	0	0	0	2	0	0	2
SW	0	1	0	0	1	1	3
WSW	0	2	0	0	4	1	7
W	0	0	0	0	0	2	2
WNW	1	0	0	0	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	1	7	4	16	12	4	44

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 0

Hours of missing stability measurements in all stability classes: 4

**LASALLE COUNTY NUCLEAR POWER STATION**  
**EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)**  
**METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: April - June 2015  
 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	10	0	0	0	10
NNE	0	2	4	0	0	0	6
NE	0	0	11	6	0	0	17
ENE	0	0	2	6	0	0	8
E	0	0	0	0	3	0	3
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	1	0	1
SSE	0	0	0	0	0	2	2
S	0	0	7	10	4	2	23
SSW	0	0	6	14	1	0	21
SW	0	0	4	8	3	0	15
WSW	0	0	1	4	4	1	10
W	0	0	3	10	1	0	14
WNW	0	0	0	11	0	0	11
NW	0	1	0	3	0	0	4
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	3	48	72	17	5	145

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 0

Hours of missing stability measurements in all stability classes: 7

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: April - June 2015  
 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	4	0	0	0	5
NNE	0	3	8	1	0	0	12
NE	0	3	3	1	0	0	7
ENE	0	0	15	7	0	0	22
E	0	0	2	1	3	0	6
ESE	0	0	0	0	0	0	0
SE	0	0	2	4	2	0	8
SSE	0	0	3	0	0	0	3
S	0	1	6	2	0	0	9
SSW	0	0	6	2	2	0	10
SW	0	3	9	4	0	0	16
WSW	0	0	10	4	1	0	15
W	0	3	5	4	2	0	14
WNW	0	3	3	6	1	0	13
NW	0	1	4	7	0	0	12
NNW	0	1	3	0	0	0	4
Variable	0	0	0	0	0	0	0
Total	0	19	83	43	11	0	156

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 0

Hours of missing stability measurements in all stability classes: 7

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: April - June 2015  
 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	5	5	0	0	0	10
NNE	0	0	9	1	0	0	10
NE	0	5	13	5	0	0	23
ENE	0	5	8	6	1	1	21
E	0	4	1	2	1	0	8
ESE	0	3	1	3	1	0	8
SE	0	1	1	3	2	0	7
SSE	0	3	6	1	0	0	10
S	0	0	5	3	1	0	9
SSW	0	2	5	3	0	0	10
SW	0	10	8	7	2	0	27
WSW	0	9	8	10	2	3	32
W	0	3	8	4	0	1	16
WNW	0	2	8	3	1	1	15
NW	0	2	6	8	0	0	16
NNW	0	5	3	3	0	0	11
Variable	0	0	0	0	0	0	0
Total	0	59	95	62	11	6	233

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 0

Hours of missing stability measurements in all stability classes: 7

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: April - June 2015  
 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	25	9	0	0	0	36
NNE	1	22	33	8	0	0	64
NE	0	11	70	18	0	0	99
ENE	0	13	53	25	8	0	99
E	1	7	25	9	0	0	42
ESE	0	3	17	4	1	0	25
SE	0	5	10	3	1	0	19
SSE	2	5	9	13	2	0	31
S	1	8	15	7	2	0	33
SSW	2	4	14	13	3	0	36
SW	1	8	22	13	3	0	47
WSW	3	19	22	13	1	3	61
W	1	9	13	11	8	4	46
WNW	1	5	21	8	8	2	45
NW	4	2	15	9	3	0	33
NNW	1	10	14	14	2	0	41
Variable	1	1	0	0	0	0	2
Total	21	157	362	168	42	9	759

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 0

Hours of missing stability measurements in all stability classes: 7

**LASALLE COUNTY NUCLEAR POWER STATION**  
**EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)**  
**METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: April - June 2015  
 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	4	21	5	0	0	0	30
NNE	0	14	2	0	0	0	16
NE	5	3	6	0	0	0	14
ENE	0	4	13	9	0	0	26
E	0	19	48	8	1	0	76
ESE	0	3	12	0	0	0	15
SE	2	5	10	3	0	0	20
SSE	1	8	10	7	0	0	26
S	2	8	23	11	5	0	49
SSW	2	11	22	10	0	0	45
SW	0	13	23	22	1	0	59
WSW	2	7	14	7	0	0	30
W	0	8	6	6	12	15	47
WNW	0	8	3	6	5	5	27
NW	2	10	9	1	0	0	22
NNW	2	6	6	2	0	0	16
Variable	0	0	1	0	0	0	1
Total	22	148	213	92	24	20	519

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 0

Hours of missing stability measurements in all stability classes: 7

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: April - June 2015  
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	0	10	0	0	0	0	10
NNE	0	0	0	0	0	0	0
NE	0	1	0	0	0	0	1
ENE	0	1	0	0	0	0	1
E	0	2	9	1	0	0	12
ESE	2	9	1	0	0	0	12
SE	1	9	6	0	0	0	16
SSE	0	8	4	6	0	0	18
S	0	13	5	8	0	0	26
SSW	0	8	14	0	0	0	22
SW	0	7	9	11	0	0	27
WSW	0	5	12	3	0	0	20
W	0	13	5	0	0	0	18
WNW	2	7	0	0	0	0	9
NW	6	6	0	0	0	0	12
NNW	0	9	2	0	0	0	11
Variable	0	0	0	0	0	0	0
Total	11	108	67	29	0	0	215

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 0

Hours of missing stability measurements in all stability classes: 7

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: April - June 2015  
 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	1	0	0	0	0	1
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	3	1	0	0	0	4
SE	0	7	3	0	0	0	10
SSE	0	14	3	0	0	0	17
S	1	12	18	1	0	0	32
SSW	0	9	9	5	0	0	23
SW	0	9	6	0	0	0	15
WSW	0	11	12	0	0	0	23
W	0	10	5	0	0	0	15
WNW	0	1	1	0	0	0	2
NW	0	6	2	0	0	0	8
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	1	83	60	6	0	0	150

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 0

Hours of missing stability measurements in all stability classes: 7

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: April - June 2015  
 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	1	1	1	3
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	1	1	1	3

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 0

Hours of missing stability measurements in all stability classes: 7

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: April - June 2015  
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	5	0	0	5
NNE	0	0	1	2	0	0	3
NE	0	0	0	4	0	0	4
ENE	0	0	0	1	1	0	2
E	0	0	0	0	0	1	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	3	3	1	7
SSW	0	0	0	1	5	1	7
SW	0	0	0	0	4	1	5
WSW	0	0	0	0	2	3	5
W	0	0	0	1	2	1	4
WNW	0	0	0	1	5	0	6
NW	0	0	0	4	1	0	5
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	0	1	22	23	8	54

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 0

Hours of missing stability measurements in all stability classes: 7

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: April - June 2015  
 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	6	0	0	7
NNE	0	0	2	6	2	0	10
NE	0	1	3	6	3	0	13
ENE	0	0	10	3	4	0	17
E	0	0	1	0	0	1	2
ESE	0	0	0	0	0	0	0
SE	0	0	0	2	4	0	6
SSE	0	0	0	0	0	1	1
S	0	0	4	5	2	4	15
SSW	0	0	6	5	2	3	16
SW	0	0	3	3	5	2	13
WSW	0	0	0	4	2	0	6
W	0	0	0	5	3	1	9
WNW	0	0	0	2	4	2	8
NW	0	2	0	1	7	1	11
NNW	0	1	1	0	0	0	2
Variable	0	0	0	0	0	0	0
Total	0	4	31	48	38	15	136

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 0

Hours of missing stability measurements in all stability classes: 7

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: April - June 2015  
 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	2	7	13	13	1	0	36
NNE	0	8	15	31	12	5	71
NE	0	15	21	75	28	5	144
ENE	1	12	44	50	22	10	139
E	2	5	13	16	9	6	51
ESE	0	2	11	7	10	1	31
SE	0	1	8	10	8	0	27
SSE	1	1	18	9	13	5	47
S	0	1	9	16	8	8	42
SSW	1	2	14	16	23	12	68
SW	0	7	20	28	15	13	83
WSW	1	12	17	37	15	8	90
W	2	8	23	11	10	32	86
WNW	2	6	13	16	6	21	64
NW	3	5	13	32	20	13	86
NNW	1	7	11	16	4	0	39
Variable	1	1	0	0	0	0	2
Total	17	100	263	383	204	139	1106

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 0

Hours of missing stability measurements in all stability classes: 7

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: April - June 2015  
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	2	4	12	0	0	20
NNE	2	6	5	18	2	0	33
NE	2	3	10	7	2	0	24
ENE	1	6	8	10	6	3	34
E	1	1	9	22	18	8	59
ESE	0	2	13	14	11	3	43
SE	0	2	7	6	10	0	25
SSE	0	1	6	11	6	5	29
S	0	1	8	13	17	25	64
SSW	0	4	5	15	16	19	59
SW	0	5	10	25	19	30	89
WSW	0	2	5	11	14	9	41
W	2	3	4	6	8	16	39
WNW	0	1	7	7	3	14	32
NW	1	1	8	12	5	0	27
NNW	0	0	8	5	4	4	21
Variable	0	0	0	1	0	0	1
Total	11	40	117	195	141	136	640

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 0

Hours of missing stability measurements in all stability classes: 7

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: April - June 2015  
 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	1	3	3	1	8
NNE	1	4	0	1	0	0	6
NE	0	1	3	2	0	0	6
ENE	1	0	3	0	0	0	4
E	0	0	2	0	1	2	5
ESE	1	0	0	1	0	0	2
SE	0	2	2	4	1	0	9
SSE	0	5	3	5	4	0	17
S	0	1	2	13	3	8	27
SSW	0	1	4	7	11	11	34
SW	0	0	3	5	4	1	13
WSW	0	4	7	9	1	1	22
W	0	0	4	8	1	2	15
WNW	1	0	6	4	5	0	16
NW	0	0	2	4	1	1	8
NNW	0	0	1	3	2	0	6
Variable	0	0	0	0	0	0	0
Total	4	18	43	69	37	27	198

Hours of calm in this stability class: 1

Hours of missing wind measurements in this stability class: 0

Hours of missing stability measurements in all stability classes: 7

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: April - June 2015  
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	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	1	1	0	0	2
S	0	0	1	1	14	1	17
SSW	0	0	1	1	8	1	11
SW	0	0	2	1	0	0	3
WSW	0	0	2	1	0	0	3
W	0	1	0	1	0	0	2
WNW	0	0	0	0	0	0	0
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	1	7	7	22	2	39

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 0

Hours of missing stability measurements in all stability classes: 7

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: July - September 2015  
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	1	3	0	0	4
ENE	0	0	2	0	0	0	2
E	0	0	2	0	0	0	2
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	1	0	0	0	1
S	0	0	4	2	0	0	6
SSW	0	1	1	5	0	0	7
SW	0	0	9	4	0	0	13
WSW	0	0	8	3	0	0	11
W	0	0	5	2	0	0	7
WNW	0	0	8	5	0	0	13
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	1	41	24	0	0	66

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 0

Hours of missing stability measurements in all stability classes: 0

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: July - September 2015  
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	2	13	0	0	0	15
NNE	0	1	3	1	0	0	5
NE	0	1	6	2	0	0	9
ENE	0	0	2	0	0	0	2
E	0	2	3	0	0	0	5
ESE	0	3	4	0	0	0	7
SE	0	2	0	0	0	0	2
SSE	0	5	3	0	0	0	8
S	0	3	6	6	0	0	15
SSW	0	2	6	6	0	0	14
SW	0	5	9	0	0	0	14
WSW	0	1	14	6	1	0	22
W	0	3	11	7	1	0	22
WNW	0	3	8	7	0	0	18
NW	0	1	4	0	0	0	5
NNW	0	1	6	0	0	0	7
Variable	0	0	0	0	0	0	0
Total	0	35	98	35	2	0	170

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 0

Hours of missing stability measurements in all stability classes: 0

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: July - September 2015  
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	4	0	0	0	13
NNE	0	3	5	0	0	0	8
NE	0	7	8	0	0	0	15
ENE	0	7	9	0	0	0	16
E	0	6	3	0	0	0	9
ESE	0	8	5	0	0	0	13
SE	0	6	1	0	0	0	7
SSE	0	6	3	2	0	0	11
S	0	6	4	2	0	0	12
SSW	0	1	5	3	0	0	9
SW	0	6	8	1	0	0	15
WSW	0	3	9	4	0	0	16
W	0	9	13	3	4	0	29
WNW	0	5	9	4	0	0	18
NW	0	0	2	2	0	0	4
NNW	0	2	7	7	0	0	16
Variable	0	1	0	0	0	0	1
Total	0	85	95	28	4	0	212

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 COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: July - September 2015  
 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	25	18	0	0	0	45
NNE	0	19	18	7	0	0	44
NE	0	18	23	5	1	0	47
ENE	0	10	14	5	0	0	29
E	2	20	17	1	0	0	40
ESE	0	22	3	0	0	0	25
SE	1	24	12	0	0	0	37
SSE	2	12	15	9	0	0	38
S	4	16	16	4	0	0	40
SSW	2	13	24	5	0	0	44
SW	0	19	12	7	0	0	38
WSW	2	10	22	6	0	0	40
W	2	12	9	4	2	0	29
WNW	1	10	15	6	1	0	33
NW	0	8	6	4	0	0	18
NNW	0	17	30	5	0	0	52
Variable	0	0	0	0	0	0	0
Total	18	255	254	68	4	0	599

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 COUNTY NUCLEAR POWER STATION**  
**EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)**  
**METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: July - September 2015  
 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	24	14	0	0	0	40
NNE	3	16	9	1	0	0	29
NE	1	8	12	1	0	0	22
ENE	0	7	18	1	0	0	26
E	1	32	23	1	0	0	57
ESE	1	11	3	0	0	0	15
SE	2	12	7	0	0	0	21
SSE	0	13	9	2	0	0	24
S	1	17	24	5	0	0	47
SSW	5	12	18	2	0	0	37
SW	3	9	9	5	0	0	26
WSW	4	17	25	4	0	0	50
W	0	11	8	0	1	0	20
WNW	5	9	8	0	1	0	23
NW	2	8	1	1	0	0	12
NNW	0	16	8	0	0	0	24
Variable	0	0	0	0	0	0	0
Total	30	222	196	23	2	0	473

Hours of calm in this stability class: 1

Hours of missing wind measurements in this stability class: 0

Hours of missing stability measurements in all stability classes: 0

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: July - September 2015  
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	7	0	0	0	0	8
NNE	1	5	0	0	0	0	6
NE	1	1	0	0	0	0	2
ENE	0	1	1	0	0	0	2
E	3	26	14	0	0	0	43
ESE	3	11	0	0	0	0	14
SE	1	19	2	0	0	0	22
SSE	2	14	3	0	0	0	19
S	2	26	9	0	0	0	37
SSW	4	30	21	0	0	0	55
SW	6	19	26	0	0	0	51
WSW	0	15	16	4	0	0	35
W	3	13	18	0	0	0	34
WNW	6	18	2	0	0	0	26
NW	1	9	1	0	0	0	11
NNW	2	4	0	0	0	0	6
Variable	0	1	1	0	0	0	2
Total	36	219	114	4	0	0	373

Hours of calm in this stability class: 1

Hours of missing wind measurements in this stability class: 0

Hours of missing stability measurements in all stability classes: 0

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: July - September 2015  
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	1	0	0	0	0	0	1
ENE	0	1	0	0	0	0	1
E	0	6	2	0	0	0	8
ESE	2	34	1	0	0	0	37
SE	1	24	0	0	0	0	25
SSE	2	25	2	0	0	0	29
S	0	41	8	0	0	0	49
SSW	0	48	14	0	0	0	62
SW	2	24	7	0	0	0	33
WSW	1	13	3	0	0	0	17
W	1	19	6	0	0	0	26
WNW	2	21	0	0	0	0	23
NW	0	1	0	0	0	0	1
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	12	257	43	0	0	0	312

Hours of calm in this stability class: 1

Hours of missing wind measurements in this stability class: 0

Hours of missing stability measurements in all stability classes: 0

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: July - September 2015  
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 COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: July - September 2015  
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	1	0	0	0	0	1
S	0	0	1	0	1	0	2
SSW	0	0	0	0	1	0	1
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	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	1	1	2	2	0	6

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 COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: July - September 2015  
 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	4	5	0	0	9
NNE	0	0	0	1	0	0	1
NE	0	0	0	6	4	0	10
ENE	0	0	0	1	0	0	1
E	0	0	3	0	0	0	3
ESE	0	0	0	0	0	0	0
SE	0	1	0	0	0	0	1
SSE	0	0	1	0	0	0	1
S	0	0	3	2	3	0	8
SSW	0	0	2	0	7	1	10
SW	0	1	9	5	4	0	19
WSW	0	0	3	8	3	0	14
W	0	0	6	0	2	0	8
WNW	0	0	4	9	2	0	15
NW	0	0	2	6	1	0	9
NNW	0	0	0	1	0	0	1
Variable	0	0	0	0	0	0	0
Total	0	2	37	44	26	1	110

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 COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: July - September 2015  
 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	13	24	24	0	0	61
NNE	1	12	19	19	13	1	65
NE	0	10	27	31	11	4	83
ENE	0	12	21	14	5	0	52
E	0	16	18	8	0	0	42
ESE	0	11	17	5	0	0	33
SE	1	24	22	6	1	0	54
SSE	2	9	20	14	4	1	50
S	3	7	19	18	4	2	53
SSW	1	8	30	18	12	3	72
SW	1	10	28	16	4	4	63
WSW	0	8	19	27	13	1	68
W	1	10	26	19	8	8	72
WNW	1	9	23	13	9	2	57
NW	1	6	6	18	10	2	43
NNW	0	2	25	21	3	0	51
Variable	0	1	0	0	0	0	1
Total	12	168	344	271	97	28	920

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 COUNTY NUCLEAR POWER STATION**  
**EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)**  
**METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: July - September 2015  
 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	8	16	6	0	33
NNE	3	3	8	18	4	0	36
NE	1	3	7	8	4	1	24
ENE	0	5	8	24	11	0	48
E	0	3	13	34	7	1	58
ESE	1	1	15	17	0	0	34
SE	2	4	10	12	2	0	30
SSE	0	6	10	18	7	2	43
S	1	10	9	20	20	5	65
SSW	0	6	18	10	30	8	72
SW	0	3	11	10	15	6	45
WSW	1	2	15	16	24	0	58
W	1	6	9	15	7	0	38
WNW	1	3	2	12	5	1	24
NW	0	1	4	9	3	1	18
NNW	1	6	10	4	4	0	25
Variable	0	0	0	0	0	0	0
Total	12	65	157	243	149	25	651

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 COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: July - September 2015  
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	1	3	1	1	1	0	7
NNE	0	1	2	0	0	0	3
NE	1	1	0	0	0	0	2
ENE	0	2	0	0	0	0	2
E	1	3	1	5	4	0	14
ESE	0	1	4	13	5	0	23
SE	1	4	3	20	3	0	31
SSE	1	5	8	10	4	0	28
S	1	5	15	15	8	4	48
SSW	1	7	18	22	22	6	76
SW	1	3	13	24	22	0	63
WSW	0	3	11	7	10	5	36
W	0	2	11	7	6	0	26
WNW	0	2	8	11	14	3	38
NW	0	6	7	10	4	0	27
NNW	0	4	2	4	1	0	11
Variable	0	1	1	0	0	0	2
Total	8	53	105	149	104	18	437

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 COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: July - September 2015  
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	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	2	0	0	2
SE	0	0	1	9	0	0	10
SSE	0	0	1	11	0	0	12
S	0	0	0	11	2	1	14
SSW	0	0	2	9	5	3	19
SW	0	0	3	1	3	1	8
WSW	0	0	1	2	0	0	3
W	0	1	2	0	0	0	3
WNW	0	1	2	5	1	1	10
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	2	13	52	11	6	84

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 COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: October - December 2015  
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	1	0	0	1
NE	0	0	0	2	3	0	5
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	4	2	6
SSE	0	0	0	2	4	1	7
S	0	1	0	4	3	0	8
SSW	0	1	0	0	0	0	1
SW	0	0	1	4	3	0	8
WSW	0	0	0	2	0	0	2
W	0	0	0	0	0	0	0
WNW	0	0	0	1	0	0	1
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	0	2	1	17	17	3	40

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 0

Hours of missing stability measurements in all stability classes: 179

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: October - December 2015  
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	0	0	0	2
NNE	0	0	0	1	0	0	1
NE	0	0	0	6	1	0	7
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	2	0	0	0	2
SE	0	1	0	1	0	0	2
SSE	0	1	0	1	0	0	2
S	0	0	1	0	0	0	1
SSW	0	0	0	4	0	0	4
SW	0	1	3	7	2	0	13
WSW	0	0	1	1	1	0	3
W	0	0	0	0	0	0	0
WNW	0	0	1	1	0	0	2
NW	0	0	5	3	0	0	8
NNW	0	0	2	0	0	0	2
Variable	0	0	0	0	0	0	0
Total	0	3	17	25	4	0	49

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: 179

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: October - December 2015  
 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	3	1	1	0	0	5
NNE	0	2	0	0	0	0	2
NE	0	1	3	2	0	0	6
ENE	0	0	0	0	0	0	0
E	0	0	1	0	0	0	1
ESE	0	0	1	0	0	0	1
SE	0	2	0	0	0	0	2
SSE	0	1	1	1	0	0	3
S	0	3	1	5	1	0	10
SSW	0	0	0	3	1	0	4
SW	0	1	3	7	0	0	11
WSW	0	3	5	1	0	0	9
W	0	2	0	2	0	0	4
WNW	0	0	3	1	0	0	4
NW	0	0	2	2	0	0	4
NNW	0	0	4	0	0	0	4
Variable	0	0	0	0	0	0	0
Total	0	18	25	25	2	0	70

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: 179

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: October - December 2015  
 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	6	20	10	0	0	38
NNE	2	24	38	3	0	0	67
NE	0	22	29	26	6	0	83
ENE	0	4	14	28	10	15	71
E	1	0	5	25	5	0	36
ESE	0	4	3	11	0	0	18
SE	0	4	10	11	4	5	34
SSE	0	8	6	11	4	4	33
S	0	8	17	13	6	0	44
SSW	1	13	16	12	8	1	51
SW	4	15	9	12	4	0	44
WSW	1	10	22	20	7	4	64
W	0	11	45	33	14	3	106
WNW	0	4	27	25	4	0	60
NW	0	2	8	8	4	0	22
NNW	0	6	12	8	1	0	27
Variable	0	0	0	0	0	0	0
Total	11	141	281	256	77	32	798

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 21

Hours of missing stability measurements in all stability classes: 179

**LASALLE COUNTY NUCLEAR POWER STATION**  
**EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)**  
**METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: October - December 2015  
 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	0	10	3	0	0	0	13
NNE	0	16	3	1	0	0	20
NE	0	1	2	2	0	0	5
ENE	0	2	5	5	0	0	12
E	0	2	28	9	0	0	39
ESE	0	6	1	1	0	0	8
SE	0	5	11	7	0	3	26
SSE	0	6	13	7	3	12	41
S	2	6	21	18	3	4	54
SSW	0	8	26	43	21	0	98
SW	1	3	12	20	4	2	42
WSW	0	4	18	25	6	1	54
W	2	4	8	15	13	11	53
WNW	1	5	10	3	10	10	39
NW	1	7	12	0	1	0	21
NNW	0	1	10	0	0	0	11
Variable	0	0	0	0	0	0	0
Total	7	86	183	156	61	43	536

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 11

Hours of missing stability measurements in all stability classes: 179

**LASALLE COUNTY NUCLEAR POWER STATION**  
**EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)**  
**METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: October - December 2015  
 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	0	2	1	0	0	0	3
NNE	1	0	0	0	0	0	1
NE	1	1	0	0	0	0	2
ENE	1	0	0	0	0	0	1
E	1	7	6	0	0	0	14
ESE	0	1	2	0	0	0	3
SE	0	6	0	0	0	0	6
SSE	1	10	6	4	0	0	21
S	1	7	20	13	0	0	41
SSW	1	6	22	15	0	0	44
SW	1	3	20	9	0	0	33
WSW	1	2	12	15	0	0	30
W	0	8	15	0	2	0	25
WNW	0	27	13	0	4	1	45
NW	0	5	0	0	0	0	5
NNW	0	2	1	0	0	0	3
Variable	0	0	0	0	0	0	0
Total	9	87	118	56	6	1	277

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 7

Hours of missing stability measurements in all stability classes: 179

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: October - December 2015  
 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	2	3	0	0	0	0	5
ESE	0	14	4	0	0	0	18
SE	1	4	2	0	0	0	7
SSE	3	8	9	5	0	0	25
S	0	9	15	1	0	0	25
SSW	0	3	27	3	0	0	33
SW	1	6	14	8	0	0	29
WSW	2	5	12	1	0	0	20
W	0	14	7	0	0	0	21
WNW	1	25	1	0	0	0	27
NW	1	2	0	0	0	0	3
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	11	93	91	18	0	0	213

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 7

Hours of missing stability measurements in all stability classes: 179

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: October - December 2015  
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	1	0	0	0	1
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	0	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	1	0	0	0	1

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: 179

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: October - December 2015  
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	1	0	0	0	1
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	2	2	4
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	1	0	2	2	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: 179

**LASALLE COUNTY NUCLEAR POWER STATION**  
**EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)**  
**METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: October - December 2015  
 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	1	1
NE	0	0	0	0	1	6	7
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	2	2
S	0	0	0	0	0	3	3
SSW	0	0	0	0	0	0	0
SW	0	0	0	2	4	3	9
WSW	0	0	0	1	1	0	2
W	0	0	0	0	0	0	0
WNW	0	0	0	1	0	0	1
NW	0	0	2	0	2	0	4
NNW	0	0	1	0	0	0	1
Variable	0	0	0	0	0	0	0
Total	0	0	3	4	8	15	30

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: 179

**LASALLE COUNTY NUCLEAR POWER STATION**  
**EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)**  
**METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: October - December 2015  
 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	8	3	13	12	3	39
NNE	0	9	16	32	12	1	70
NE	1	7	26	29	24	27	114
ENE	0	5	9	10	22	9	55
E	0	0	1	7	19	9	36
ESE	0	0	3	6	8	5	22
SE	0	5	1	4	8	9	27
SSE	1	6	14	5	9	26	61
S	1	8	12	7	18	8	54
SSW	0	4	14	13	19	23	73
SW	3	13	17	22	15	8	78
WSW	0	4	11	18	12	8	53
W	0	3	16	30	22	34	105
WNW	0	0	8	31	17	8	64
NW	0	0	1	18	22	7	48
NNW	0	2	2	9	5	1	19
Variable	0	0	0	0	0	0	0
Total	6	74	154	254	244	186	918

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 50

Hours of missing stability measurements in all stability classes: 179

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: October - December 2015  
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	0	0	5	6	3	14
NNE	0	0	5	8	2	0	15
NE	0	3	5	2	9	2	21
ENE	0	2	6	3	0	1	12
E	0	0	4	4	16	9	33
ESE	0	3	1	1	9	0	14
SE	0	3	3	7	6	5	24
SSE	0	0	6	11	12	20	49
S	0	2	3	9	18	18	50
SSW	1	1	5	21	34	80	142
SW	1	1	4	17	17	19	59
WSW	1	0	7	11	12	16	47
W	0	0	2	6	18	36	62
WNW	0	0	2	13	8	36	59
NW	0	0	4	16	13	1	34
NNW	0	1	2	8	5	0	16
Variable	0	0	0	0	0	0	0
Total	3	16	59	142	185	246	651

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 5

Hours of missing stability measurements in all stability classes: 179

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: October - December 2015  
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	1	1	2	7	2	1	14
NNE	0	1	3	0	1	0	5
NE	0	1	0	0	2	0	3
ENE	0	3	0	0	0	0	3
E	1	4	0	0	0	0	5
ESE	0	1	0	5	2	0	8
SE	1	2	0	2	4	2	11
SSE	0	0	7	3	1	1	12
S	0	0	7	2	3	17	29
SSW	2	0	1	18	16	15	52
SW	0	0	5	5	18	17	45
WSW	0	0	3	4	4	9	20
W	1	0	4	3	7	4	19
WNW	0	0	3	10	10	0	23
NW	0	3	7	19	12	0	41
NNW	0	1	4	8	1	0	14
Variable	0	0	0	0	0	0	0
Total	6	17	46	86	83	66	304

Hours of calm in this stability class: 2

Hours of missing wind measurements in this stability class: 0

Hours of missing stability measurements in all stability classes: 179

**LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2015)  
METEOROLOGICAL DATA**

LaSalle County Generating Station

Period of Record: October - December 2015  
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	1	0	1	0	0	2
NNE	0	0	1	0	0	0	1
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	1	0	0	0	0	1
ESE	0	0	1	0	3	0	4
SE	0	1	0	2	3	0	6
SSE	0	4	1	1	0	1	7
S	0	0	0	2	1	3	6
SSW	0	0	0	3	3	2	8
SW	0	0	1	5	2	1	9
WSW	0	0	1	0	3	6	10
W	0	1	0	0	2	0	3
WNW	0	1	1	2	0	0	4
NW	0	1	0	0	0	0	1
NNW	0	1	0	0	0	0	1
Variable	0	0	0	0	0	0	0
Total	0	11	6	16	17	13	63

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: 179

**Appendix A**

**Offsite Dose Calculation Manual**

**Revision 6**

**ODCM Change Summary Matrix**

## ODCM change summary matrix

Page 1 of 3

Item #	(Old) Rev. 5 page #	(New) Rev. 6 page #	Determination identifier	Description of change
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## Editorial and grammatical – Determination EG

1	Title Page	Title page	EG	Added effective date.
2	TOC	TOC	EG	Table of Contents (TOC) was revised to reflect changes due to content added or removed.
3	TOC, pages 9-10	TOC, page 9	EG	Spacing reduced to incorporate information on a single page.
4	I-1.1-3	I-1.1-3	EG	Added definition for "POSITION INDICATION VERIFICATION" as it relates to the position of the Blowdown Flow Control Valve actuator shaft. Reference AR #1515366-02.
5	I-12.4.1-3	I-12.4.1-3	EG	Corrected misspelling in definition of variable "B" from "counds" to "counts".
6	I-B12.5.1-1	I-B12.5.1-1	EG	Removed revision bar left over from revision #4. Reference AR #1671059-02.
7	II.1-14	II.1-14	EG	Removed reference #60 which has been superseded per AR #1426577-07 and EC #375636.
8	N/A	II.1-16	EG	Added references #108 and #109 that supersede reference #60 per AR #1426577-07 and EC #375636.
9	II.1-17	II.1-17	EG	Removed revision bars left over from revision #4. Reference AR #1671059-02.
10	II.1-18	II.1-18	EG	Removed revision bars left over from revision #4. Reference AR #1671059-02.
11	II.1-20	II.1-20	EG	Inserted parenthesis ahead of "...Cont'd" at top of page.
12	II.2-1	II.2-1	EG	Corrected misspelling from "INSTRUMENATATION" to "INSTRUMENTATION". Removed revision bars left over from revision #4. Reference AR #1671059-02.
13	II.2-2	II.2-2	EG	Corrected editorial errors in sections 2.2.2 and 2.2.3. Removed revision bar left over from revision #4. Reference AR #1671059-02.
14	II.2-7	II.2-7	EG	Corrected editorial error in section 2.4.1. Removed revision bar left over from revision #4. Reference AR #1671059-02.
15	II.2-8	II.2-8	EG	Replaced "O" in OPLD5J with "0" in section 2.5.1. Replaced "O" in OPLD2J with "0" in section 2.5.2.
16	II.2-9	II.2-9	EG	Removed page break in section 2.5.2.
17	II.2-10	II.2-9	EG	Replaced "OO" in 1(2)D18-NOO9 with "00" in section 2.5.3.
18	II.2-11	II.2-10	EG	Corrected editorial error in section 2.6.2 by surrounding term at end of sentence with parentheses.
19	II.2-12	II.2-11	EG	Removed page break in section 2.6.2.
20	N/A	II.2-11	EG	Added page break after section 2.6.4.
21	II.2-13	II.2-12	EG	Removed space from inside parentheses of equation 2-5. Added equation number "(2-5)". Reference AR #1552182-02.
22	II.2-14	II.2-12	EG	Added equation number "(2-6)". Reference AR #1552182-02. Removed page break.
23	N/A	II.2-12	EG	Added page break following section 2.6.5.
24	II.2-15	II.2-13	EG	Removed page break in section 2.6.7.

## ODCM change summary matrix

Page 2 of 3

Item #	(Old) Rev. 5 page #	(New) Rev. 6 page #	Determination identifier	Description of change
25	II.2-16	II.2-13	EG	Corrected editorial errors in "Pretreatment Monitor" and "Post-treatment Monitor" sections. Removed space in "RM-23".
26	II.2-18	II.2-16	EG	Removed revision bars left over from revision #4. Reference AR #1671059-02.
27	II.2-19	II.2-17	EG	Removed "FIGURE 10-1" from title box as it is no longer valid. Removed revision bars left over from revision #4. Reference AR #1671059-02.
28	II.2-20	N/A	EG	Removed blank page.
29	II.2-22	II.2-19	EG	Removed revision bars left over from revision #4. Reference AR #1671059-02.
30	II.3-5	II.3-5	EG	Added equation number "(3-3)".
31	II.3-6	II.3-6	EG	Added equation number "(3-4)".
32	II.3-7	II.3-7	EG	Added equation number "(3-5)". Removed revision bar left over from revision #4. Reference AR #1671059-02.
33	II.4-1	II.4-1	EG	Updated section 4.1.1 from "...dispersion parameters shown in Table 4-2 through Table 4-5..." to "...dispersion parameters shown in Table 4-2 through Table 4-6..." due to the re-insertion of historical Table 4-6. Refer to Item #45.
34	II.4-2	II.4-2	EG	Removed revision bar left over from revision #4. Reference AR #1671059-02.
35	II.4-3	II.4-3	EG	Removed revision bar left over from revision #4. Reference AR #1671059-02.
36	II.4-4	II.4-4	EG	Removed revision bar left over from revision #4. Reference AR #1671059-02.
37	II.4-5	II.4-5	EG	Removed revision bar left over from revision #4. Reference AR #1671059-02.
38	II.4-7	II.4-7	EG	Removed revision bar left over from revision #4. Reference AR #1671059-02.
39	II.4-8	II.4-8	EG	Removed revision bar left over from revision #4. Reference AR #1671059-02.
40	II.4-9	II.4-9	EG	Removed revision bar left over from revision #4. Reference AR #1671059-02.
41	II.4-10	II.4-10	EG	Removed revision bar left over from revision #4. Reference AR #1671059-02.
42	II.4-11	II.4-11	EG	Removed revision bar left over from revision #4. Reference AR #1671059-02.
43	II.4-22	II.4-22	EG	Corrected the title of Table 4-5, page 1 from "D/Q at the Nearest Milk Cow and Meat Animal Locations Within 5 Miles" to "X/Q and D/Q at the Nearest Meat Animal Locations Within 5 Miles".
44	II.4-23	II.4-23	EG	Corrected the title of Table 4-5, page 2 from "D/Q at the Nearest Milk Cow and Meat Animal Locations Within 5 Miles" to "X/Q and D/Q at the Nearest Milk Cow Locations Within 5 Miles".
45	II.4-24	II.4-24 to II.4-38	EG	Re-inserted historical Table 4-6 that was removed in Revision 4. Reference AR #1552182-02.
46	II.4-27 and II.4-28	II.4-41 and II.4-42	EG	Table 4-9 updated to enhance clarity.
47	II.4-29 and II.4-30	II.4-43 and II.4-44	EG	Table 4-10 updated to enhance clarity.
48	II.4-31 and II.4-32	II.4-45 and II.4-46	EG	Table 4-11 updated to enhance clarity. Added "33 Foot Elevation Data" to Table 4-11 (page 1 of 2) to match Table 4-11 (page 2 of 2).
49	II.6-2	II.6-2	EG	Added "a." to "Radioiodine and Particulates" in the Exposure Pathway column.
50	II.6-6	II.6-6	EG	Updated distances for well locations L-28 #6, L-28 #4, and L-28 #5 to 4.1 miles, 7.0 miles, and 6.7 miles, respectively. Reference AR #1507387-02.

**ODCM change summary matrix**

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Item #	(Old) Rev. 5 page #	(New) Rev. 6 page #	Determination identifier	Description of change
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51	II-6-7	II.6-7	EG	Reduced font size for entire page. Added "Refer to most recent Land Use Census for specific garden locations" to enhance sampling locations for Food Products -- Table 6-1, Section 4.c.a. & 4.c.b. Reference AR #1507387-02.
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**Appendix B**

**Offsite Dose Calculation Manual**

**Part I RECS**

**Part II ODCM**

**LaSalle Station**  
**Units 1 and 2**

**Revision 6**

**NOTE:**

The implementation date of Revision 6 was January 6, 2015  
and not November 26, 2014 as indicated on the ODCM Cover page.

## **OFFSITE DOSE CALCULATION MANUAL**

### **PART I RECS**

### **PART II ODCM**

**LaSalle Station  
Units 1 and 2**

**November 26, 2014**

JAN  
2015

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