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RA17-040

10 CFR 50.36a

April 27, 2017

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

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

Subject: 2016 Annual Radioactive Effluent Release Report

Enclosed is the Exelon Generation Company, LLC, 2016 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."

There are no regulatory commitments in this letter. Should you have any questions concerning this report, please contact Mr. Guy V. Ford, Jr., Regulatory Assurance Manager, at (815) 415-2800.

Respectfully,

A handwritten signature in black ink, appearing to read "W. J. Trafton".

William J. Trafton  
Site Vice President  
LaSalle County Station

Enclosure: LaSalle County Nuclear Power Station Annual Radiological Effluent Release Report (ARERR) 2016

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

LASALLE COUNTY NUCLEAR POWER STATION  
ANNUAL RADIOLOGICAL EFFLUENT RELEASE REPORT (ARERR)  
2016

LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
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.

LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
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 ( $\mu\text{Ci/mL}$ )
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 SBGT System.
- 5) The LaSalle County Station estimate of 17.24 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 351.5 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.

LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
SUPPLEMENTAL INFORMATION

- 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

There were no changes to the Process Control Program (RW-AA-100), 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.

LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
SUPPLEMENTAL INFORMATION

8. Effluent Monitoring Instrumentation time clocks and sample anomalies.

a. Time clocks:

There were no effluent monitoring time clocks exceeded during 2016.

b. Sample anomalies:

There were no sampling anomalies affecting the measurement of effluents experienced during 2016.

9. Offsite Dose Calculation Manual (ODCM) Revisions.

There were two revisions made to the LaSalle Station ODCM in 2016. Revision 7 included REMP (Radiological Environmental Monitoring Program) sampling changes and the addition of various editorial and grammatical enhancements. A discussion around changes that were implemented on Unit 2 with the completion of Engineering Change (EC) 387237, Removal of Offgas Vulnerabilities on Valve 2N62-F057, was added, also. Additionally, a change to the minimum analysis frequency for the Containment Vent and Purge System gaseous tritium analysis was implemented.

A copy of the ODCM Change Summary Matrix for revision 7 has been included as Appendix A to this report. Also, a copy of ODCM revision 7 has been included as Appendix B to this report. All changes in revision 7 to the ODCM became effective 01/14/2016.

Revision 8 included a discussion around changes that were implemented on Unit 1 with the completion of Engineering Change (EC) 387161, Removal of Offgas Vulnerabilities on Valve 1N62-F057, and various editorial and grammatical enhancements.

A copy of the ODCM Change Summary Matrix for revision 8 has been included as Appendix C to this report. Also, a copy of revision 8 of the ODCM has been included as Appendix D to this report. All changes in revision 8 to the LaSalle Station ODCM became effective 06/16/2016.

Each of the above ODCM changes was assessed by a change determination, in accordance with ODCM revision procedures. The change determinations ensure that the changes will 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. No adverse impact was identified by the change determinations.

10. Independent Spent Fuel Storage Installation (ISFSI).

During the period April 1, 2016 to April 1, 2017, no radioactive effluents were released from the LaSalle Nuclear Station Independent Spent Fuel Storage Installation (ISFSI). Also, during this period, zero (0) new casks were transferred to the outdoor concrete ISFSI storage pad.

LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 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>Quarter 4</b>	<b>Est. Total Error %</b>
1. Total Release	Ci	6.23E+02	8.47E+02	8.68E+02	6.01E+02	2.50E+01
2. Average release rate for the period	μCi/sec	7.92E+01	1.08E+02	1.09E+02	7.56E+01	
3. Percent of ODCM limit	%	*	*	*	*	

<b>B. Iodine</b>						
1. Total Iodine – 131	Ci	5.84E-03	6.95E-03	6.10E-03	5.70E-03	1.50E+01
2. Average release rate for the period	μCi/sec	7.42E-04	8.84E-04	7.68E-04	7.17E-04	
3. Percent of ODCM limit	%	*	*	*	*	

<b>C. Particulates</b>						
1. Particulates with half-lives > 8 days	Ci	8.32E-04	2.23E-03	2.15E-03	6.90E-04	3.50E+01
2. Average release rate for the period	μCi/sec	1.06E-04	2.83E-04	2.71E-04	8.68E-05	
3. Percent of ODCM limit	%	*	*	*	*	

<b>D. Tritium</b>						
1. Total Release	Ci	7.81E-01	6.02E+00	8.38E+00	8.11E+00	1.50E+01
2. Average release rate for the period	μCi/sec	9.93E-02	7.65E-01	1.05E+00	1.02E+00	
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	μCi/sec	<LLD	<LLD	<LLD	<LLD	
3. Percent of ODCM limit	%	*	*	*	*	

<b>F. Carbon-14</b>						
1. Total Release	Ci	8.62E+00	8.62E+00	8.62E+00	8.62E+00	
2. Average release rate for the period	μCi/sec	1.10E+00	1.10E+00	1.09E+00	1.09E+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 μCi/ml

LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 GASEOUS EFFLUENTS ELEVATED RELEASE UNIT 1 AND UNIT 2

Nuclides Released	Unit	Continuous Mode				Batch Mode			
		Quarter 1	Quarter 2	Quarter 3	Quarter 4	Quarter 1	Quarter 2	Quarter 3	Quarter 4
<b>A. Fission gases</b>									
Kr-85m	Ci	1.80E+02	2.26E+02	1.84E+02	1.52E+02	N/A	N/A	N/A	N/A
Kr-87	Ci	<LLD	3.80E+00	4.78E+00	1.06E+01	N/A	N/A	N/A	N/A
Kr-88	Ci	2.29E+02	2.94E+02	3.03E+02	2.23E+02	N/A	N/A	N/A	N/A
Xe-131m	Ci	<LLD	<LLD	1.28E+02	<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	2.05E+02	3.23E+02	2.40E+02	2.13E+02	N/A	N/A	N/A	N/A
Xe-135	Ci	3.69E+00	<LLD	2.78E+00	2.71E-00	N/A	N/A	N/A	N/A
Xe-135m	Ci	5.29E+00	<LLD	5.59E+00	<LLD	N/A	N/A	N/A	N/A
Xe-138	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Ar-41	Ci	6.53E-02	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Total for Period	Ci	6.23E+02	8.47E+02	8.68E+02	6.01E+02	N/A	N/A	N/A	N/A
<b>B. Iodines</b>									
I-131	Ci	5.84E-03	6.95E-03	6.10E-03	5.70E-03	N/A	N/A	N/A	N/A
I-132	Ci	8.00E-03	1.25E-02	1.06E-02	1.73E-02	N/A	N/A	N/A	N/A
I-133	Ci	1.51E-02	2.37E-02	2.28E-02	2.36E-02	N/A	N/A	N/A	N/A
I-134	Ci	<LLD	2.83E-03	4.55E-03	4.22E-03	N/A	N/A	N/A	N/A
I-135	Ci	6.09E-03	2.05E-02	2.45E-02	2.61E-02	N/A	N/A	N/A	N/A
Total for Period	Ci	3.50E-02	6.65E-02	6.86E-02	7.70E-02	N/A	N/A	N/A	N/A
Tot. I-131,I-133,I-135	Ci	2.70E-02	5.12E-02	5.34E-02	5.54E-02	N/A	N/A	N/A	N/A
<b>C. Particulates</b>									
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	1.70E-04	1.02E-04	8.35E-05	1.24E-04	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	1.64E-04	2.60E-04	2.10E-04	<LLD	N/A	N/A	N/A	N/A
Sr-90	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Nb-95	Ci	6.91E-06	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Mo-99	Ci	<LLD	<LLD	1.29E-05	<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
Ba-140	Ci	2.38E-04	5.32E-04	5.80E-04	7.77E-05	N/A	N/A	N/A	N/A
La-140	Ci	2.53E-04	1.33E-03	1.27E-03	4.89E-04	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	8.32E-04	2.23E-03	2.15E-03	6.90E-04	N/A	N/A	N/A	N/A
<b>D. Tritium</b>									
H-3 Total for Period	Ci	7.81E-01	6.02E+00	8.38E+00	8.11E+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	8.62E+00	8.62E+00	8.62E+00	8.62E+00	N/A	N/A	N/A	N/A



LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 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>Quarter 4</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	μCi/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	μCi/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	μCi/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	μCi/mL	<LLD	<LLD	<LLD	<LLD	
3. Percent of ODCM limit	%	*	*	*	*	

<b>E. Volume of Waste Released (prior to dilution)</b>	Liters	0.00E+00	0.00E+00	0.00E+00	0.00E+00
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<b>F. Volume of Dilution Water Used During Period</b>	Liters	0.00E+00	0.00E+00	0.00E+00	0.00E+00
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"\*" This information is contained in the Radiological Impact on Man section of the report.

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

LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
LIQUID RELEASES  
UNIT 1 AND UNIT 2

Nuclides Released	Unit	Continuous Mode				Batch Mode			
		Quarter 1	Quarter 2	Quarter 3	Quarter 4	Quarter 1	Quarter 2	Quarter 3	Quarter 4
<b>A. Fission &amp; Activation Products</b>									
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>B. H-3</b>									
H-3 Total for Period	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
<b>C. Dissolved &amp; Entrained Gasses</b>									
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
<b>D. Gross Alpha</b>									
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 (2016)  
 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.	None	None	1Q15	N/A
b. Dry compressible waste, contaminated equip, etc.	7.95E+02	1.19E+00	1Q15	+/-25%
c. Irradiated components, control rods, etc.	None	None	1Q15	N/A
d. Other (Oil, EHC fluid, sump waste, etc.)	None	None	1Q15	N/A

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

Major Nuclide Composition	Percent Abundance (≥1%)	Shipment Type(s)
a. Spent resins, filter sludges, evaporator bottoms, etc.		
None	N/A	N/A
b. Dry compressible waste, contaminated equip, etc.		
Mn-54	1.35%	LSA
Fe-55	33.92%	
Co-60	61.68%	
Zn-65	1.03%	
c. Irradiated components, control rods, etc.		
None	N/A	N/A
d. Other (Oil, EHC fluid, sump waste etc.)		
None	N/A	N/A

LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 SOLID WASTE AND IRRADIATED FUEL SHIPMENTS  
 FIRST QUARTER

3. Solid Waste Disposition

Number of Shipments	Mode of Transportation	Destination
13	Hittman Transport	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 (2016)  
 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.	5.65E+00	2.96E+02	2Q15	+/-25%
b. Dry compressible waste, contaminated equip, etc.	6.95E+01	4.02E+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 (≥1%)	Shipment Type(s)
a. Spent resins, filter sludges, evaporator bottoms, etc.		
	Fe-55 29.07%	LSA
	Co-60 68.11%	
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 N/A	N/A
d. Other (Oil, EHC fluid, sump waste etc.)		
	None N/A	N/A

LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 SOLID WASTE AND IRRADIATED FUEL SHIPMENTS  
 SECOND QUARTER

3. Solid Waste Disposition

Number of Shipments	Mode of Transportation	Destination
4	Hittman Transport	Energy Solutions - Bear Creek Facility, Oak Ridge, TN
2	Interstate Ventures	Waste Control Specialists – Texas Compact Waste Facility, Andrews County, TX

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 (2016)  
 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.	4.16E+01	5.56E+02	3Q15	+/-25%
b. Dry compressible waste, contaminated equip, etc.	1.49E+02	1.47E+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 (≥1%)	Shipment Type(s)
a. Spent resins, filter sludges, evaporator bottoms, etc.		
	Fe-55	25.65%
	Co-60	70.43%
	Ni-63	1.39%
b. Dry compressible waste, contaminated equip, etc.		
	Mn-54	1.37%
	Fe-55	33.96%
	Co-60	61.56%
	Zn-65	1.05%
c. Irradiated components, control rods, etc.		
	None	N/A
d. Other (Oil, EHC fluid, sump waste, etc.)		
	None	N/A

LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 SOLID WASTE AND IRRADIATED FUEL SHIPMENTS  
 THIRD QUARTER

3. Solid Waste Disposition

Number of Shipments	Mode of Transportation	Destination
5	Hittman Transport	Energy Solutions - Bear Creek Facility, Oak Ridge, TN
6	Hittman Transport	Energy Solutions, Clive Facility, Tooele County, UT
5	Interstate Ventures	Waste Control Specialists – Texas Compact Waste Facility, Andrews County, TX

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 (2016)  
 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.	7.55E+00	2.71E+01	4Q15	+/-25%
b. Dry compressible waste, contaminated equip, etc.	3.40E+02	1.24E+00	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 (≥1%)	Shipment Type(s)
a. Spent resins, filter sludges, evaporator bottoms, etc.		
	Fe-55 38.96%	LSA
	Co-60 57.93%	
	Ni-63 1.01%	
b. Dry compressible waste, contaminated equip, etc.		
	Mn-54 1.37%	LSA
	Fe-55 33.95%	
	Co-60 61.57%	
	Zn-65 1.05%	
c. Irradiated components, control rods, etc.		
	None N/A	N/A
d. Other (Oil, EHC fluid, sump waste, etc.)		
	None N/A	N/A

LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 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
2	Hittman Transport	Energy Solutions, Clive Facility, Tooele County, UT
3	Landstar	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 (2016)  
 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>3<sup>rd</sup> 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	7.85E-03	0.157	1.01E-02	0.202	1.04E-02	0.207	7.72E-03	0.154	1.00E+01	0.360
Beta Air	1.00E+01	mRad	3.36E-04	0.003	4.52E-04	0.005	4.57E-04	0.005	3.47E-04	0.003	2.00E+01	0.008
NG Total Body	2.50E+00	mRem	5.23E-03	0.209	6.73E-03	0.269	6.92E-03	0.277	5.15E-03	0.206	5.00E+00	0.481
NG Skin	7.50E+00	mRem	8.80E-03	0.117	1.13E-02	0.151	1.16E-02	0.155	8.67E-03	0.116	1.50E+01	0.270
NNG Organ	7.50E+00	mRem	2.97E-02	0.395	3.53E-02	0.471	3.13E-02	0.417	2.94E-02	0.392	1.50E+01	0.837
<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>3<sup>rd</sup> 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	7.85E-03	0.157	1.01E-02	0.202	1.04E-02	0.207	7.72E-03	0.154	1.00E+01	0.360
Beta Air	1.00E+01	mRad	3.36E-04	0.003	4.52E-04	0.005	4.57E-04	0.005	3.47E-04	0.003	2.00E+01	0.008
NG Total Body	2.50E+00	mRem	5.23E-03	0.209	6.73E-03	0.269	6.92E-03	0.277	5.15E-03	0.206	5.00E+00	0.481
NG Skin	7.50E+00	mRem	8.80E-03	0.117	1.13E-02	0.151	1.16E-02	0.155	8.67E-03	0.116	1.50E+01	0.270
NNG Organ	7.50E+00	mRem	1.24E-02	0.165	1.47E-02	0.196	1.30E-02	0.173	1.23E-02	0.163	1.50E+01	0.349
<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>3<sup>rd</sup> 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	7.85E-03	0.157	1.01E-02	0.202	1.04E-02	0.207	7.72E-03	0.154	1.00E+01	0.360
Beta Air	1.00E+01	mRad	3.36E-04	0.003	4.52E-04	0.005	4.57E-04	0.005	3.47E-04	0.003	2.00E+01	0.008
NG Total Body	2.50E+00	mRem	5.23E-03	0.209	6.73E-03	0.269	6.92E-03	0.277	5.15E-03	0.206	5.00E+00	0.481
NG Skin	7.50E+00	mRem	8.80E-03	0.117	1.13E-02	0.151	1.16E-02	0.155	8.67E-03	0.116	1.50E+01	0.270
NNG Organ	7.50E+00	mRem	6.19E-03	0.082	7.35E-03	0.098	6.51E-03	0.087	6.13E-03	0.082	1.50E+01	0.175
<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>3<sup>rd</sup> 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	7.85E-03	0.157	1.01E-02	0.202	1.04E-02	0.207	7.72E-03	0.154	1.00E+01	0.360
Beta Air	1.00E+01	mRad	3.36E-04	0.003	4.52E-04	0.005	4.57E-04	0.005	3.47E-04	0.003	2.00E+01	0.008
NG Total Body	2.50E+00	mRem	5.23E-03	0.209	6.73E-03	0.269	6.92E-03	0.277	5.15E-03	0.206	5.00E+00	0.481
NG Skin	7.50E+00	mRem	8.80E-03	0.117	1.13E-02	0.151	1.16E-02	0.155	8.67E-03	0.116	1.50E+01	0.270
NNG Organ	7.50E+00	mRem	3.89E-03	0.052	4.63E-03	0.062	4.10E-03	0.055	3.85E-03	0.051	1.50E+01	0.110

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 (2016)  
 RADIOLOGICAL IMPACT ON MAN  
 MAXIMUM DOSES RESULTING FROM LIQUID RELEASES AND COMPLIANCE STATUS

Infant Receptor	Quarterly Limit	Units	1st Quarter	% of Limit	2nd Quarter	% of Limit	3 <sup>rd</sup> Quarter	% of Limit	4th Quarter	% of Limit	Annual Limit	% of Limit
<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
Child Receptor	Quarterly Limit	Units	1st Quarter	% of Limit	2nd Quarter	% of Limit	3 <sup>rd</sup> Quarter	% of Limit	4th Quarter	% of Limit	Annual Limit	% of Limit
<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
Teenager Receptor	Quarterly Limit	Units	1st Quarter	% of Limit	2nd Quarter	% of Limit	3 <sup>rd</sup> Quarter	% of Limit	4th Quarter	% of Limit	Annual Limit	% of Limit
<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
Adult Receptor	Quarterly Limit	Units	1st Quarter	% of Limit	2nd Quarter	% of Limit	3 <sup>rd</sup> Quarter	% of Limit	4th Quarter	% of Limit	Annual Limit	% of Limit
<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 (2016)  
 RADIOLOGICAL IMPACT ON MAN  
 MAXIMUM DOSES RESULTING FROM RELEASES AND COMPLIANCE STATUS

**10CFR20 / 40CFR190 Compliance**

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

40CFR190 Compliance

U1 D <sup>Ex</sup>	6.62E-02	1.01E-01	1.03E-01	1.04E-01	3.74E-01	25	1.50
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10CFR20 Compliance

U1 D <sup>Tot</sup>	9.59E-02	1.37E-01	1.34E-01	1.33E-01	5.00E-01	100	0.50
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40CFR190 Compliance

Bone	7.05E-03	7.07E-03	7.05E-03	7.04E-03	2.82E-02	25	0.11
Liver	1.59E-03	1.60E-03	1.59E-03	1.59E-03	6.37E-03	25	0.03
Thyroid	2.97E-02	3.53E-02	3.13E-02	2.94E-02	1.26E-01	75	0.17
Kidney	1.60E-03	1.62E-03	1.61E-03	1.60E-03	6.43E-03	25	0.03
Lung	1.50E-03	1.50E-03	1.50E-03	1.50E-03	6.00E-03	25	0.02
GI-LLI	1.51E-03	1.50E-03	1.50E-03	1.50E-03	6.02E-03	25	0.02

**Unit 2**

40CFR190 Compliance

U2 D <sup>Ex</sup>	9.79E-02	9.47E-02	9.62E-02	9.88E-02	3.88E-01	25	1.55
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10CFR20 Compliance

U2 D <sup>Tot</sup>	9.79E-02	9.47E-02	9.62E-02	9.88E-02	3.88E-01	100	0.39
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40CFR190 Compliance

Bone	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	25	0.00
Liver	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	25	0.00
Thyroid	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	75	0.00
Kidney	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	25	0.00
Lung	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	25	0.00
GI-LLI	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 (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: January - March 2016  
 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	2	0	0	2
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
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	1	0	0	0	1
SSE	0	0	2	0	0	0	2
S	0	0	0	2	0	0	2
SSW	0	0	0	0	4	0	4
SW	0	0	0	0	4	0	4
WSW	0	0	1	0	2	0	3
W	0	0	1	0	0	0	1
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	0	5	5	10	0	20

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

LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: January - March 2016  
 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	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	2	1	0	0	3
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	4	1	2	0	7
SSE	0	0	2	0	0	0	2
S	0	0	0	1	0	0	1
SSW	0	0	0	1	3	0	4
SW	0	0	2	2	1	2	7
WSW	0	0	3	3	0	0	6
W	0	0	2	2	0	0	4
WNW	0	0	3	1	0	0	4
NW	0	1	2	0	0	0	3
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	1	20	12	6	2	41

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

LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: January - March 2016  
 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	0	2	1	0	0	3
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	2	1	0	0	3
E	0	0	3	0	0	0	3
ESE	0	2	0	0	1	0	3
SE	0	1	0	1	1	0	3
SSE	0	3	2	0	0	0	5
S	0	0	1	2	1	0	4
SSW	0	1	0	1	3	0	5
SW	0	1	4	3	1	1	10
WSW	0	0	5	6	2	0	13
W	0	0	4	4	0	0	8
WNW	0	1	8	11	5	0	25
NW	0	3	2	4	2	0	11
NNW	0	0	3	2	0	0	5
Variable	0	0	0	0	0	0	0
Total	0	12	36	36	16	1	101

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



LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: January - March 2016  
 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	31	34	8	3	0	78
NNE	3	31	20	6	0	0	60
NE	1	10	7	11	0	0	29
ENE	3	10	20	16	5	0	54
E	0	7	16	4	3	3	33
ESE	0	11	7	8	7	0	33
SE	1	11	16	9	4	4	45
SSE	2	11	8	9	1	0	31
S	3	6	14	10	1	0	34
SSW	4	2	17	7	9	1	40
SW	1	5	11	18	1	5	41
WSW	4	12	17	8	3	8	52
W	0	23	41	34	10	10	118
WNW	1	20	32	127	15	0	195
NW	0	20	30	31	11	0	92
NNW	1	24	57	53	27	0	162
Variable	0	0	0	0	0	0	0
Total	26	234	347	359	100	31	1097

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

LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: January - March 2016  
 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	21	4	0	0	0	27
NNE	4	17	0	0	0	0	21
NE	0	3	4	0	0	0	7
ENE	2	4	13	1	0	0	20
E	1	17	7	5	2	0	32
ESE	2	19	12	2	1	0	36
SE	1	10	7	4	5	0	27
SSE	1	7	16	7	2	1	34
S	1	9	30	15	8	0	63
SSW	1	10	22	39	5	0	77
SW	1	8	13	16	9	0	47
WSW	0	2	18	24	8	1	53
W	2	7	17	8	15	6	55
WNW	0	11	27	8	9	4	59
NW	1	4	16	2	0	0	23
NNW	0	11	5	0	0	0	16
Variable	0	0	0	0	0	0	0
Total	19	160	211	131	64	12	597

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

LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: January - March 2016  
 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	0	0	0	0	2
NNE	1	0	0	0	0	0	1
NE	0	2	0	0	0	0	2
ENE	1	0	0	0	0	0	1
E	0	4	2	0	0	0	6
ESE	0	7	7	0	0	0	14
SE	2	6	11	4	0	0	23
SSE	1	6	4	1	0	0	12
S	1	7	23	5	0	0	36
SSW	2	11	19	24	1	0	57
SW	0	4	8	18	1	0	31
WSW	0	2	6	9	0	0	17
W	1	5	10	2	0	0	18
WNW	0	3	7	0	0	0	10
NW	0	0	2	0	0	0	2
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	9	59	99	63	2	0	232

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

LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: January - March 2016  
 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	3	1	0	0	0	4
ESE	0	12	0	0	0	0	12
SE	0	16	4	0	0	0	20
SSE	0	8	4	0	0	0	12
S	0	2	5	1	0	0	8
SSW	0	4	11	7	0	0	22
SW	0	0	2	5	0	0	7
WSW	0	0	2	6	0	0	8
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	45	29	19	0	0	93

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

LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: January - March 2016  
 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: 3

LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: January - March 2016  
 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	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	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	1	1
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	0	1	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: 3

LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: January - March 2016  
 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	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	1	0	0	1
ESE	0	0	0	0	0	0	0
SE	0	0	0	1	0	0	1
SSE	0	0	3	2	0	0	5
S	0	0	0	0	1	0	1
SSW	0	0	0	0	2	3	5
SW	0	0	0	0	1	4	5
WSW	0	0	0	1	2	0	3
W	0	0	0	0	1	0	1
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	4	6	7	7	24

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

LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: January - March 2016  
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	9	22	38	11	3	85
NNE	0	10	39	7	9	6	71
NE	0	6	13	8	12	0	39
ENE	0	9	8	15	9	2	43
E	1	8	10	19	7	3	48
ESE	1	6	8	3	3	8	29
SE	0	5	15	13	12	12	57
SSE	1	6	12	15	2	2	38
S	0	8	7	10	6	4	35
SSW	2	1	8	18	7	23	59
SW	1	3	10	14	12	15	55
WSW	0	8	24	13	14	14	73
W	2	9	22	27	29	30	119
WNW	1	11	16	50	80	25	183
NW	3	8	42	45	82	45	225
NNW	0	11	28	34	28	20	121
Variable	0	0	0	0	0	0	0
Total	14	118	284	329	323	212	1280

Hours of calm in this stability class: 0  
Hours of missing wind measurements in this stability class: 15  
Hours of missing stability measurements in all stability classes: 3



LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: January - March 2016  
 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	4	9	3	0	16
NNE	0	3	7	8	0	0	18
NE	1	2	4	11	1	0	19
ENE	0	8	2	1	1	0	12
E	0	10	7	16	2	5	40
ESE	2	5	14	7	1	3	32
SE	1	8	6	11	9	5	40
SSE	1	2	2	9	2	12	28
S	0	3	3	24	23	19	72
SSW	0	5	5	12	33	53	108
SW	0	1	14	17	28	26	86
WSW	1	0	1	6	7	20	35
W	0	1	0	13	16	21	51
WNW	0	0	5	11	19	12	47
NW	1	3	7	27	11	3	52
NNW	0	1	2	4	7	0	14
Variable	0	0	0	0	0	0	0
Total	7	52	83	186	163	179	670

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

LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: January - March 2016  
 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	0	0	0	0	1
NNE	0	0	0	0	0	0	0
NE	0	0	2	1	0	0	3
ENE	0	1	3	0	0	0	4
E	0	0	0	1	0	0	1
ESE	0	1	3	1	3	0	8
SE	0	2	3	6	4	2	17
SSE	0	1	2	14	8	3	28
S	0	0	3	4	3	0	10
SSW	0	0	1	3	8	19	31
SW	0	0	2	9	5	13	29
WSW	0	0	0	1	1	13	15
W	0	0	0	2	2	6	10
WNW	0	0	1	1	0	0	2
NW	0	0	0	0	0	0	0
NNW	0	1	0	0	0	0	1
Variable	0	0	0	0	0	0	0
Total	0	7	20	43	34	56	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: 3

LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: January - March 2016  
 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	1	0	0	0	0	1
ENE	0	0	1	0	0	0	1
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	3	0	0	3
SSE	0	0	0	2	0	0	2
S	0	0	3	5	1	0	9
SSW	0	0	0	5	3	0	8
SW	0	0	0	0	1	3	4
WSW	0	0	0	0	0	2	2
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	1	4	15	5	5	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: 3  
 LaSalle County Generating Station

LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: April - June 2016  
 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	6	3	0	0	9
NNE	0	0	1	0	0	0	1
NE	0	0	0	1	0	0	1
ENE	0	0	0	1	0	0	1
E	0	0	0	0	0	0	0
ESE	0	0	2	7	0	0	9
SE	0	0	2	2	0	0	4
SSE	0	0	0	0	0	0	0
S	0	0	1	3	1	0	5
SSW	0	0	1	7	6	0	14
SW	0	0	0	1	4	4	9
WSW	0	0	2	4	2	0	8
W	0	0	7	9	1	0	17
WNW	0	0	4	16	0	1	21
NW	0	0	2	3	1	0	6
NNW	0	0	0	7	0	0	7
Variable	0	0	0	0	0	0	0
Total	0	0	28	64	15	5	112

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

LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: April - June 2016

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	11	5	0	0	17
NNE	0	0	6	0	0	0	6
NE	0	0	10	1	0	0	11
ENE	0	0	4	0	0	0	4
E	0	0	2	0	0	0	2
ESE	0	1	8	1	0	0	10
SE	0	2	7	1	0	0	10
SSE	0	0	3	0	0	0	3
S	0	0	5	2	3	0	10
SSW	0	0	4	5	1	0	10
SW	0	2	8	0	3	0	13
WSW	0	1	1	6	1	0	9
W	0	1	8	4	0	0	13
WNW	0	1	8	9	1	0	19
NW	0	0	8	3	2	0	13
NNW	0	1	3	6	1	0	11
Variable	0	0	0	0	0	0	0
Total	0	10	96	43	12	0	161

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

LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: April - June 2016  
 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	6	9	3	1	0	19
NNE	0	3	5	0	0	0	8
NE	0	7	8	1	0	0	16
ENE	0	3	2	0	0	0	5
E	1	4	1	3	0	0	9
ESE	0	6	9	3	0	0	18
SE	0	3	7	3	0	0	13
SSE	0	5	8	4	0	0	17
S	0	2	8	0	0	0	10
SSW	0	3	4	8	0	0	15
SW	0	7	4	2	0	1	14
WSW	0	2	3	2	0	0	7
W	0	2	9	1	0	0	12
WNW	0	1	9	8	2	0	20
NW	0	2	4	2	3	0	11
NNW	0	3	3	3	0	0	9
Variable	0	0	0	0	0	0	0
Total	1	59	93	43	6	1	203

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

LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: April - June 2016

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	29	28	8	0	0	65
NNE	3	40	22	1	0	0	66
NE	2	13	37	16	1	0	69
ENE	0	14	19	29	18	1	81
E	0	13	8	13	7	0	41
ESE	0	10	11	9	5	0	35
SE	0	11	6	6	6	0	29
SSE	1	8	5	11	3	0	28
S	0	7	15	8	8	0	38
SSW	1	12	22	15	2	0	52
SW	0	6	9	11	2	1	29
WSW	0	4	7	7	2	0	20
W	0	9	10	8	0	1	28
WNW	0	9	26	32	13	3	83
NW	0	8	10	22	5	4	49
NNW	2	4	22	15	6	4	53
Variable	0	0	0	0	0	0	0
Total	9	197	257	211	78	14	766

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

LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: April - June 2016  
 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	20	7	0	0	0	29
NNE	2	16	3	0	0	0	21
NE	0	5	5	0	0	0	10
ENE	0	10	12	4	0	0	26
E	2	10	27	1	0	0	40
ESE	1	11	12	6	0	0	30
SE	0	14	11	1	1	0	27
SSE	0	5	11	7	4	0	27
S	1	5	18	5	1	0	30
SSW	0	5	35	4	3	0	47
SW	3	3	18	14	0	0	38
WSW	3	3	15	15	2	0	38
W	1	9	20	3	0	0	33
WNW	3	11	18	8	5	0	45
NW	4	14	11	1	0	0	30
NNW	0	5	16	1	0	0	22
Variable	0	0	0	0	0	0	0
Total	22	146	239	70	16	0	493

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



LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: April - June 2016  
 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	1	4	0	0	0	0	5
NE	3	0	0	0	0	0	3
ENE	1	1	2	0	0	0	4
E	1	13	29	0	0	0	43
ESE	0	17	5	0	0	0	22
SE	2	13	6	0	0	0	21
SSE	1	6	2	2	0	0	11
S	1	10	7	3	0	0	21
SSW	2	6	13	3	0	0	24
SW	0	5	6	2	0	0	13
WSW	3	9	12	4	1	0	29
W	1	12	14	3	0	0	30
WNW	1	15	1	0	0	0	17
NW	0	7	1	0	0	0	8
NNW	0	4	0	0	0	0	4
Variable	0	0	0	0	0	0	0
Total	17	132	98	17	1	0	265

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

LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: April - June 2016  
 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	8	11	0	0	0	19
ESE	2	20	3	0	0	0	25
SE	0	13	2	0	0	0	15
SSE	0	10	1	0	0	0	11
S	0	10	3	0	0	0	13
SSW	2	8	13	0	0	0	23
SW	1	6	5	0	0	0	12
WSW	1	11	7	0	0	0	19
W	0	22	5	0	0	0	27
WNW	0	15	0	0	0	0	15
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	6	125	50	0	0	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: 3

LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: April - June 2016

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: 3

LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: April - June 2016  
 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	2	0	2
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	1	1	0	0	2
SSE	0	0	0	0	0	0	0
S	0	0	0	0	1	1	2
SSW	0	0	0	0	2	4	6
SW	0	0	0	0	1	3	4
WSW	0	0	0	0	1	1	2
W	0	0	0	1	1	0	2
WNW	0	0	0	5	3	0	8
NW	0	0	0	1	0	0	1
NNW	0	0	0	2	1	1	4
Variable	0	0	0	0	0	0	0
Total	0	0	1	10	12	10	33

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

LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: April - June 2016

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	10	0	2	16
NNE	0	0	5	2	0	0	7
NE	0	0	0	3	2	0	5
ENE	0	0	0	3	0	0	3
E	0	0	1	0	0	0	1
ESE	0	0	1	7	1	0	9
SE	0	0	1	4	0	0	5
SSE	0	0	0	0	0	0	0
S	0	0	0	3	2	1	6
SSW	0	0	0	6	4	2	12
SW	0	0	1	0	4	2	7
WSW	0	0	2	1	3	1	7
W	0	0	2	7	3	1	13
WNW	0	0	6	13	5	1	25
NW	0	0	1	4	2	1	8
NNW	0	0	2	3	4	0	9
Variable	0	0	0	0	0	0	0
Total	0	0	26	66	30	11	133

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

LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: April - June 2016  
 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	14	17	22	17	3	73
NNE	0	17	29	25	2	0	73
NE	1	14	20	63	13	3	114
ENE	0	15	15	37	20	17	104
E	1	14	3	10	14	5	47
ESE	0	7	17	18	6	11	59
SE	1	9	14	17	4	2	47
SSE	0	9	15	13	7	13	57
S	1	5	10	14	7	11	48
SSW	1	7	20	32	12	17	89
SW	0	7	20	15	4	4	50
WSW	1	4	8	15	16	8	52
W	0	4	8	18	3	1	34
WNW	0	5	18	30	20	9	82
NW	0	4	16	22	22	56	120
NNW	0	5	9	14	12	6	46
Variable	0	0	0	0	0	0	0
Total	6	140	239	365	179	166	1095

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

LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: April - June 2016

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	7	3	6	6	1	23
NNE	1	3	11	13	0	0	28
NE	0	2	11	11	1	0	25
ENE	0	6	11	10	2	0	29
E	1	3	12	8	6	1	31
ESE	0	6	8	11	19	2	46
SE	1	1	8	9	8	1	28
SSE	1	3	2	10	11	2	29
S	0	1	1	10	15	10	37
SSW	1	3	6	17	26	10	63
SW	0	3	6	16	15	9	49
WSW	2	4	1	11	13	9	40
W	2	7	8	16	7	3	43
WNW	0	3	5	19	13	5	45
NW	1	4	14	23	8	5	55
NNW	0	0	3	10	13	0	26
Variable	0	0	0	0	0	0	0
Total	10	56	110	200	163	58	597

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

LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: April - June 2016  
 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	3	1	0	0	0	4
NNE	0	1	4	1	1	0	7
NE	0	2	0	0	2	0	4
ENE	0	0	1	0	0	0	1
E	1	0	3	2	3	3	12
ESE	0	0	1	25	15	3	44
SE	0	1	4	18	9	0	32
SSE	0	0	4	8	4	0	16
S	0	2	2	4	4	0	12
SSW	0	1	8	6	3	7	25
SW	1	3	3	13	6	1	27
WSW	0	4	3	4	1	3	15
W	0	5	5	13	5	5	33
WNW	0	3	11	13	3	1	31
NW	0	0	8	5	0	0	13
NNW	0	2	2	0	0	0	4
Variable	0	0	0	0	0	0	0
Total	2	27	60	112	56	23	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: 3



LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: April - June 2016  
 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	5	1	1	3	0	10
SSE	0	0	1	3	0	0	4
S	0	0	1	2	0	0	3
SSW	0	0	4	3	0	0	7
SW	0	0	2	3	0	3	8
WSW	0	0	0	0	0	0	0
W	0	0	1	2	0	0	3
WNW	0	0	1	1	4	1	7
NW	0	0	0	0	0	0	0
NNW	0	1	0	0	0	0	1
Variable	0	0	0	0	0	0	0
Total	0	6	11	15	7	4	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: 3

LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: July - September 2016  
 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	1	0	0	0	1
ESE	0	0	2	0	0	0	2
SE	0	0	0	0	0	0	0
SSE	0	1	0	0	0	0	1
S	0	0	2	0	0	0	2
SSW	0	0	5	1	0	0	6
SW	0	2	10	1	0	0	13
WSW	0	0	4	0	0	0	4
W	0	0	6	5	0	0	11
WNW	0	0	8	4	0	0	12
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	3	38	13	0	0	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: 0

LASALLE COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: July - September 2016

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	9	0	0	0	9
NNE	0	0	0	0	0	0	0
NE	0	0	3	0	0	0	3
ENE	0	0	7	1	0	0	8
E	0	3	5	0	0	0	8
ESE	0	5	3	1	0	0	9
SE	0	6	2	1	0	0	9
SSE	0	3	2	0	0	0	5
S	0	4	10	2	0	0	16
SSW	1	9	17	3	0	0	30
SW	0	3	11	3	0	0	17
WSW	0	5	13	0	0	0	18
W	0	0	7	3	0	0	10
WNW	0	3	7	2	0	0	12
NW	0	1	2	0	0	0	3
NNW	0	2	6	1	0	0	9
Variable	0	0	0	0	0	0	0
Total	1	44	104	17	0	0	166

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 (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: July - September 2016  
 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	11	6	1	0	0	18
NNE	0	7	3	0	0	0	10
NE	0	3	3	1	0	0	7
ENE	0	4	6	0	0	0	10
E	0	8	5	0	0	0	13
ESE	0	13	5	1	0	0	19
SE	0	10	6	0	0	0	16
SSE	1	7	6	1	0	0	15
S	0	4	4	2	0	0	10
SSW	1	8	13	3	0	0	25
SW	0	4	8	5	0	0	17
WSW	0	10	9	2	0	0	21
W	0	18	11	3	0	0	32
WNW	0	6	4	4	3	0	17
NW	0	2	3	0	0	0	5
NNW	0	4	2	0	0	0	6
Variable	0	0	0	0	0	0	0
Total	2	119	94	23	3	0	241

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 (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: July - September 2016  
 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	21	14	9	0	0	45
NNE	0	24	34	2	0	0	60
NE	0	16	29	1	0	0	46
ENE	0	9	25	4	0	0	38
E	1	17	27	5	0	0	50
ESE	1	18	19	1	0	0	39
SE	5	19	10	1	0	0	35
SSE	8	18	10	0	0	0	36
S	4	13	22	3	0	0	42
SSW	2	11	21	2	0	0	36
SW	4	11	26	4	0	0	45
WSW	1	14	16	2	0	0	33
W	2	11	26	6	3	0	48
WNW	2	12	17	16	5	0	52
NW	0	10	4	2	0	0	16
NNW	2	12	19	1	0	0	34
Variable	0	0	0	0	0	0	0
Total	33	236	319	59	8	0	655

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 (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: July - September 2016  
 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	18	3	1	0	0	23
NNE	5	28	1	0	0	0	34
NE	3	7	9	1	0	0	20
ENE	0	7	19	0	0	0	26
E	2	21	16	2	0	0	41
ESE	3	19	4	0	0	0	26
SE	2	15	9	0	0	0	26
SSE	6	11	9	0	0	0	26
S	5	18	27	1	0	0	51
SSW	3	12	35	0	0	0	50
SW	1	15	22	3	0	0	41
WSW	3	15	11	5	0	0	34
W	0	12	11	2	0	0	25
WNW	3	13	12	1	4	0	33
NW	1	14	7	0	0	0	22
NNW	1	16	4	1	0	0	22
Variable	0	0	0	0	0	0	0
Total	39	241	199	17	4	0	500

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 (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: July - September 2016

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	3	15	0	0	0	0	18
NNE	0	5	0	0	0	0	5
NE	0	0	0	0	0	0	0
ENE	1	2	0	0	0	0	3
E	4	36	2	0	0	0	42
ESE	0	31	1	0	0	0	32
SE	3	12	1	1	0	0	17
SSE	4	19	6	0	0	0	29
S	2	23	7	0	0	0	32
SSW	3	35	7	0	0	0	45
SW	5	23	4	0	0	0	32
WSW	2	22	7	0	0	0	31
W	2	10	11	0	0	0	23
WNW	5	20	4	0	0	0	29
NW	1	1	0	1	0	0	3
NNW	0	7	0	0	0	0	7
Variable	0	0	0	0	0	0	0
Total	35	261	50	2	0	0	348

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 (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: July - September 2016  
 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	3	2	0	0	0	5
ESE	3	27	1	0	0	0	31
SE	1	28	0	0	0	0	29
SSE	1	15	0	0	0	0	16
S	1	48	4	0	0	0	53
SSW	4	29	6	0	0	0	39
SW	2	17	2	0	0	0	21
WSW	1	10	6	0	0	0	17
W	2	16	0	0	0	0	18
WNW	1	13	0	0	0	0	14
NW	1	0	0	0	0	0	1
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	17	206	21	0	0	0	244

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 (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: July - September 2016

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 (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: July - September 2016  
 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	2	0	2
WNW	0	0	0	1	1	0	2
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	0	1	4	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 COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: July - September 2016  
 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	0	0	0	4
NNE	0	0	0	0	0	0	0
NE	0	0	1	0	0	0	1
ENE	0	0	0	3	0	0	3
E	0	1	0	0	0	0	1
ESE	0	1	4	0	0	0	5
SE	0	2	1	0	0	0	3
SSE	0	0	1	0	0	0	1
S	0	0	3	7	0	0	10
SSW	0	0	2	8	1	1	12
SW	0	0	6	2	2	0	10
WSW	0	0	1	1	0	0	2
W	0	0	2	3	1	0	6
WNW	0	0	2	4	1	0	7
NW	0	0	0	9	0	0	9
NNW	0	0	2	1	0	0	3
Variable	0	0	0	0	0	0	0
Total	0	4	29	38	5	1	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: 0

LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: July - September 2016  
 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	13	20	11	8	3	56
NNE	0	3	18	28	7	0	56
NE	3	5	24	29	11	0	72
ENE	1	9	14	39	8	0	71
E	1	13	24	23	4	0	65
ESE	0	16	35	12	0	0	63
SE	2	32	22	6	2	0	64
SSE	2	15	15	6	0	0	38
S	2	23	19	23	5	1	73
SSW	3	8	24	33	9	0	77
SW	5	8	22	47	11	0	93
WSW	0	13	18	25	2	0	58
W	1	16	29	37	9	2	94
WNW	2	12	11	14	24	11	74
NW	0	5	14	9	5	3	36
NNW	1	6	27	6	2	0	42
Variable	0	0	0	0	0	0	0
Total	24	197	336	348	107	20	1032

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 (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: July - September 2016  
 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	2	9	12	7	3	34
NNE	0	5	11	11	4	0	31
NE	0	11	22	5	14	0	52
ENE	1	2	10	9	1	0	23
E	1	6	14	20	6	1	48
ESE	2	3	8	21	0	0	34
SE	1	3	13	10	7	0	34
SSE	1	5	16	8	7	0	37
S	3	5	12	17	22	6	65
SSW	1	7	10	13	19	5	55
SW	1	2	4	29	26	3	65
WSW	1	4	17	28	5	2	57
W	0	3	14	11	3	1	32
WNW	1	1	8	20	12	2	44
NW	0	5	7	13	4	4	33
NNW	0	3	3	6	2	1	15
Variable	0	0	0	0	0	0	0
Total	14	67	178	233	139	28	659

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 (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: July - September 2016  
 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	4	2	0	0	7
NNE	1	2	10	3	0	0	16
NE	0	1	3	1	0	0	5
ENE	2	4	1	0	0	0	7
E	0	1	5	2	1	0	9
ESE	0	1	6	22	8	0	37
SE	1	1	11	8	6	0	27
SSE	0	1	14	12	2	1	30
S	0	6	4	10	7	1	28
SSW	1	2	4	27	18	1	53
SW	1	1	15	22	10	0	49
WSW	1	12	8	12	3	0	36
W	1	2	6	5	3	6	23
WNW	1	0	8	4	4	1	18
NW	0	5	8	7	3	0	23
NNW	0	5	6	4	0	0	15
Variable	0	0	0	0	0	0	0
Total	9	45	113	141	65	10	383

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 (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: July - September 2016

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	2	0	0	2
SSE	0	0	6	3	0	2	11
S	0	0	3	3	3	0	9
SSW	0	0	1	8	2	2	13
SW	0	0	2	5	0	0	7
WSW	0	0	1	3	0	0	4
W	0	0	0	3	0	0	3
WNW	0	0	0	1	0	0	1
NW	0	1	0	0	0	0	1
NNW	1	0	0	0	0	0	1
Variable	0	0	0	0	0	0	0
Total	1	1	13	28	5	4	52

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

LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: October - December 2016  
 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	1	0	0	1
SSW	0	0	0	1	2	0	3
SW	0	0	0	3	0	0	3
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	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	0	0	7	2	0	9

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 COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: October - December 2016  
 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	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	3	0	0	3
SSW	0	0	0	5	0	0	5
SW	0	0	2	0	0	0	2
WSW	0	0	0	2	3	0	5
W	0	0	0	0	1	0	1
WNW	0	1	2	1	0	0	4
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	1	5	11	4	0	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: 2

LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: October - December 2016  
 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	2	0	0	0	3
NNE	0	2	1	1	0	0	4
NE	0	0	1	0	0	0	1
ENE	0	2	0	0	0	0	2
E	0	0	0	0	0	0	0
ESE	0	0	0	3	0	0	3
SE	0	0	0	1	0	0	1
SSE	0	0	2	3	0	0	5
S	0	0	1	3	0	0	4
SSW	0	0	7	3	1	0	11
SW	0	0	4	5	0	0	9
WSW	0	0	8	2	2	0	12
W	0	2	3	0	1	0	6
WNW	0	1	4	1	0	0	6
NW	0	2	4	5	1	0	12
NNW	0	1	4	3	1	0	9
Variable	0	0	0	0	0	0	0
Total	0	11	41	30	6	0	88

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 COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: October - December 2016  
 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	30	17	5	0	0	53
NNE	2	9	12	0	0	0	23
NE	3	7	4	0	0	0	14
ENE	3	4	5	1	0	0	13
E	0	7	12	9	2	0	30
ESE	2	7	8	15	2	0	34
SE	0	11	15	31	2	0	59
SSE	1	7	12	18	3	1	42
S	0	11	14	12	13	0	50
SSW	0	11	17	15	4	0	47
SW	0	11	10	8	1	0	30
WSW	2	10	22	24	5	0	63
W	2	17	59	43	2	0	123
WNW	2	20	47	67	12	0	148
NW	2	8	33	16	4	0	63
NNW	0	25	37	18	2	0	82
Variable	0	0	0	0	0	0	0
Total	20	195	324	282	52	1	874

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 COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: October - December 2016  
 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	21	14	0	0	0	35
NNE	1	16	3	0	0	0	20
NE	1	1	12	1	0	0	15
ENE	0	3	7	0	0	0	10
E	1	7	24	3	0	0	35
ESE	0	13	3	6	3	0	25
SE	1	7	4	6	2	0	20
SSE	0	12	13	9	3	0	37
S	0	5	33	22	11	0	71
SSW	4	5	19	39	13	0	80
SW	4	7	12	18	19	1	61
WSW	1	6	12	21	7	0	47
W	4	9	18	24	7	5	67
WNW	4	11	13	26	31	19	104
NW	1	5	15	3	1	0	25
NNW	1	7	14	1	0	0	23
Variable	0	0	0	0	0	0	0
Total	23	135	216	179	97	25	675

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 COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: October - December 2016  
 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	13	0	0	0	0	13
NNE	0	0	0	0	0	0	0
NE	1	0	0	0	0	0	1
ENE	2	0	0	0	0	0	2
E	0	12	6	0	0	0	18
ESE	0	16	0	0	0	0	16
SE	1	5	5	0	0	0	11
SSE	1	5	5	4	0	0	15
S	1	11	20	7	0	0	39
SSW	1	7	19	5	0	0	32
SW	1	8	21	3	0	0	33
WSW	0	7	14	25	0	0	46
W	1	11	11	1	0	0	24
WNW	0	6	6	0	0	2	14
NW	2	6	4	0	0	0	12
NNW	1	7	2	0	0	0	10
Variable	0	0	0	0	0	0	0
Total	12	114	113	45	0	2	286

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 COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: October - December 2016  
 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	3	0	0	0	0	3
NNE	1	0	0	0	0	0	1
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	1	9	0	0	0	0	10
ESE	0	17	1	0	0	0	18
SE	0	13	8	0	0	0	21
SSE	1	16	9	0	0	0	26
S	1	10	15	0	0	0	26
SSW	1	18	26	0	0	0	45
SW	0	10	22	3	0	0	35
WSW	1	3	25	8	0	0	37
W	0	10	2	0	0	0	12
WNW	0	9	2	0	0	0	11
NW	1	4	0	0	0	0	5
NNW	1	2	0	0	0	0	3
Variable	0	0	0	0	0	0	0
Total	8	124	110	11	0	0	253

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

LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: October - December 2016  
 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 COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: October - December 2016  
 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	1	0	1
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	0	1	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	0	2	0	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 COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: October - December 2016  
 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	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	0	1
SSW	0	0	0	0	0	3	3
SW	0	0	0	0	2	0	2
WSW	0	0	0	0	0	0	0
W	0	0	0	0	1	0	1
WNW	0	0	0	0	1	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	0	5	3	8

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

LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: October - December 2016  
 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	18	18	17	7	0	60
NNE	2	5	7	16	1	0	31
NE	2	6	15	5	3	0	31
ENE	0	3	6	8	1	0	18
E	1	1	5	11	7	2	27
ESE	0	10	2	9	8	13	42
SE	2	7	5	15	20	7	56
SSE	1	4	8	18	16	6	53
S	0	8	9	15	11	24	67
SSW	0	4	12	17	22	16	71
SW	1	3	15	17	14	4	54
WSW	1	5	10	21	21	17	75
W	0	6	35	32	42	18	133
WNW	0	6	30	36	48	23	143
NW	0	5	34	34	14	16	103
NNW	1	7	18	14	11	0	51
Variable	0	0	0	0	0	0	0
Total	11	98	229	285	246	146	1015

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 85  
 Hours of missing stability measurements in all stability classes: 2

LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: October - December 2016

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	2	3	14	15	5	39
NNE	2	6	3	10	2	0	23
NE	1	4	7	13	2	0	27
ENE	1	0	4	4	2	0	11
E	0	0	2	10	4	0	16
ESE	0	3	4	2	7	2	18
SE	1	2	4	11	3	4	25
SSE	0	3	17	6	8	7	41
S	0	1	7	8	27	28	71
SSW	0	4	8	15	26	63	116
SW	0	5	11	10	22	28	76
WSW	0	3	10	8	16	13	50
W	0	1	6	14	7	21	49
WNW	0	1	4	17	7	55	84
NW	0	2	3	8	6	6	25
NNW	0	0	3	4	3	1	11
Variable	0	0	0	0	0	0	0
Total	5	37	96	154	157	233	682

Hours of calm in this stability class: 0  
 Hours of missing wind measurements in this stability class: 22  
 Hours of missing stability measurements in all stability classes: 2

LASALLE COUNTY NUCLEAR POWER STATION  
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: October - December 2016  
 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	4	1	1	10
NNE	1	2	5	2	0	0	10
NE	1	1	2	3	0	0	7
ENE	0	2	1	0	0	0	3
E	0	2	1	0	0	0	3
ESE	0	1	1	18	3	0	23
SE	0	3	1	6	2	0	12
SSE	0	0	7	4	5	6	22
S	1	0	4	7	5	11	28
SSW	0	2	5	13	9	11	40
SW	0	3	8	28	19	8	66
WSW	0	1	4	14	17	16	52
W	0	0	1	12	2	5	20
WNW	0	1	2	10	2	1	16
NW	1	0	4	4	5	0	14
NNW	0	0	2	4	2	0	8
Variable	0	0	0	0	0	0	0
Total	5	19	50	129	72	59	334

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 COUNTY NUCLEAR POWER STATION  
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2016)  
METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: October - December 2016  
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	1	3	0	0	4
SE	0	0	1	3	0	0	4
SSE	0	0	0	2	2	3	7
S	0	0	0	7	0	0	7
SSW	0	0	0	2	1	1	4
SW	0	0	2	6	3	0	11
WSW	0	0	2	0	5	3	10
W	0	0	0	6	2	1	9
WNW	0	0	1	0	0	0	1
NW	0	0	0	0	0	0	0
NNW	0	0	1	0	0	0	1
Variable	0	0	0	0	0	0	0
Total	0	0	8	29	13	8	58

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