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RA19-029

10 CFR 50.36a

April 26, 2019

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, 50-374, and 72-70

Subject: 2018 Annual Radioactive Effluent Release Report

Enclosed is the Exelon Generation Company, LLC, 2018 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. Daniel Mearhoff, 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 Nuclear Power Station Annual Radiological Effluent Release Report (ARERR) 2018

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

LASALLE COUNTY NUCLEAR POWER STATION
ANNUAL RADIOLOGICAL EFFLUENT RELEASE REPORT (ARERR)
2018

LASALLE COUNTY NUCLEAR POWER STATION
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2018)
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 (2018)
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 (2018)
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 |
| 3) Summary of release(s): | N/A |

b. Liquid

- | | |
|-----------------------------|------|
| 1) Number of releases: | None |
| 2) Total activity released: | N/A |
| 3) Summary of release(s): | N/A |

7. Process Control Program

LASALLE COUNTY NUCLEAR POWER STATION
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2018)
SUPPLEMENTAL INFORMATION

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 during 2018.

b. Sample anomalies:

There were no sampling anomalies affecting the measurement of effluents experienced during 2018.

9. Offsite Dose Calculation Manual (ODCM) Revisions.

There were no revisions to the LaSalle Station ODCM in 2018

10. Independent Spent Fuel Storage Installation (ISFSI).

During the period April 1, 2018 to April 1, 2019, no radioactive effluents were released from the LaSalle Nuclear Station Independent Spent Fuel Storage Installation (ISFSI). Also, during this period, no new casks were transferred to the outdoor concrete ISFSI storage pad.

LASALLE COUNTY NUCLEAR POWER STATION
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2018)
UNIT 1 AND UNIT 2
DOCKET NUMBERS 50-373 AND 50-374
GASEOUS EFFLUENTS SUMMATION OF ALL RELEASES

A. Fission & Activation Gases	Unit	Quarter 1	Quarter 2	Quarter 3	Quarter4	Est. Total Error %
1. Total Release	Ci	1.51E+02	2.40E+02	3.69E+02	2.43E+02	2.50E+01
2. Average release rate for the period	μCi/sec	1.94E+01	3.05E+01	4.64E+01	3.06E+01	
3. Percent of ODCM limit	%	*	*	*	*	

B. Iodine						
1. Total Iodine – 131	Ci	1.23E-02	9.23E-03	1.99E-02	5.98E-03	1.50E+01
2. Average release rate for the period	μCi/sec	1.58E-03	1.17E-03	2.50E-03	7.52E-04	
3. Percent of ODCM limit	%	*	*	*	*	

C. Particulates						
1. Particulates with half-lives > 8 days	Ci	1.11E-03	1.59E-03	3.46E-03	2.28E-03	3.50E+01
2. Average release rate for the period	μCi/sec	1.42E-04	2.02E-04	4.35E-04	2.87E-04	
3. Percent of ODCM limit	%	*	*	*	*	

D. Tritium						
1. Total Release	Ci	5.75E+00	6.07E+00	1.30E+01	1.16E+00	1.50E+01
2. Average release rate for the period	μCi/sec	7.39E-01	7.71E-01	1.63E-00	1.46E-00	
3. Percent of ODCM limit	%	*	*	*	*	

E. Gross Alpha						
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	%	*	*	*	*	

F. Carbon-14						
1. Total Release	Ci	8.62E+00	8.62E+00	8.62E+00	8.63E+00	
2. Average release rate for the period	μCi/sec	1.11E+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 (2018)
 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
A. Fission gases									
Kr-85m	Ci	7.35E+01	8.89E+01	1.05E+02	8.60E+01	N/A	N/A	N/A	N/A
Kr-87	Ci	<LLD	<LLD	3.00E+01	<LLD	N/A	N/A	N/A	N/A
Kr-88	Ci	5.60E+01	1.02E+02	1.77E+02	1.12E+02	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	9.35E-06	<LLD	N/A	N/A	N/A	N/A
Xe-133	Ci	1.68E+01	4.87E+01	5.14E+01	2.65E+01	N/A	N/A	N/A	N/A
Xe-135	Ci	4.29E+00	<LLD	5.57E+00	1.35E+00	N/A	N/A	N/A	N/A
Xe-135m	Ci	<LLD	<LLD	<LLD	1.71E+01	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	3.26E-02	5.57E-03	1.77E-02	<LLD	N/A	N/A	N/A	N/A
Total for Period	Ci	1.51E+02	2.40E+02	3.69E+02	2.43E+02	N/A	N/A	N/A	N/A
B. Iodines									
I-131	Ci	1.23E-02	9.23E-03	1.99E-02	5.98E-03	N/A	N/A	N/A	N/A
I-132	Ci	3.07E-02	3.05E-02	6.71E-02	1.74E-02	N/A	N/A	N/A	N/A
I-133	Ci	4.60E-02	4.07E-02	8.68E-02	2.47E-02	N/A	N/A	N/A	N/A
I-134	Ci	3.90E-02	7.63E-03	5.37E-02	<LLD	N/A	N/A	N/A	N/A
I-135	Ci	5.32E-02	4.49E-02	9.71E-02	2.26E-02	N/A	N/A	N/A	N/A
Total for Period	Ci	1.82E-01	1.33E-01	3.25E-01	7.07E-02	N/A	N/A	N/A	N/A
Tot. I-131,I-133,I-135	Ci	1.12E-01	9.48E-02	2.04E-01	5.33E-02	N/A	N/A	N/A	N/A
C. Particulates									
Mn-54	Ci	<LLD	<LLD	<LLD	8.97E-06	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	2.33E-04	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	2.47E-04	1.64E-04	4.62E-04	9.95E-04	N/A	N/A	N/A	N/A
Zn-65	Ci	<LLD	<LLD	<LLD	2.44E-04	N/A	N/A	N/A	N/A
Sr-89	Ci	<LLD	<LLD	1.58E-04	3.74E-05	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	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Mo-99	Ci	<LLD	<LLD	<LLD	2.71E-05	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	3.60E-04	4.76E-04	1.35E-03	3.14E-04	N/A	N/A	N/A	N/A
La-140	Ci	5.06E-04	9.47E-04	1.53E-03	4.22E-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	1.11E-03	1.59E-03	3.46E-03	2.28E-03	N/A	N/A	N/A	N/A
D. Tritium									
H-3 Total for Period	Ci	5.75E+00	6.07E+00	1.30E+01	1.16E+01	N/A	N/A	N/A	N/A
E. Gross Alpha									
Gross Alpha Total for Period	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
F. Carbon-14									
C-14 Total for Period	Ci	8.62E+00	8.62E+00	8.62E+00	8.63E+00	N/A	N/A	N/A	N/A

LASALLE COUNTY NUCLEAR POWER STATION
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2018)
LIQUID RELEASES
UNIT 1 AND UNIT 2
SUMMATION OF ALL LIQUID RELEASES

A. Fission & Activation Products	Unit	Quarter 1	Quarter 2	Quarter 3	Quarter4	Est. Total Error %
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. Tritium						
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	%	*	*	*	*	

C. Dissolved & Entrained Gases						
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	%	*	*	*	*	

D. Gross Alpha Activity						
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	%	*	*	*	*	

E. Volume of Waste Released (prior to dilution)	Liters	0.00E+00	0.00E+00	0.00E+00	0.00E+00
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F. Volume of Dilution Water Used During Period	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 (2018)
 LIQUID RELEASES
 UNIT 1 AND UNIT 2

Nuclides Released		Continuous Mode				Batch Mode			
A. Fission & Activation Products	Unit	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Quarter 1	Quarter 2	Quarter 3	Quarter 4
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 (2018)
 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 ³)	Total Activity (Ci)	Period	Est. Total Error (%)
a. Spent resins, filter sludges, evaporator bottoms, etc.	1.76E+01	4.18E+02	1Q18	+/-25%
b. Dry compressible waste, contaminated equip, etc.	9.42E+02	2.71E-01	1Q18	+/-25%
c. Irradiated components, control rods, etc.	None	None	1Q18	N/A
d. Other (Oil, EHC fluid, sump waste, etc.)	None	None	1Q18	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.		
	Ni-63	1.02%
	Fe-55	36.59%
	Co-60	60.73%
b. Dry compressible waste, contaminated equip, etc.		
	Fe-55	14.33%
	Co-60	83.04%
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 (2018)
 SOLID WASTE AND IRRADIATED FUEL SHIPMENTS
 FIRST QUARTER

3. Solid Waste Disposition

Number of Shipments	Mode of Transportation	Destination
15	Hittman Transport	Energy Solutions - Bear Creek Facility, Oak Ridge, TN
5	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 (2018)
 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 ³)	Total Activity (Ci)	Period	Est. Total Error (%)
a. Spent resins, filter sludges, evaporator bottoms, etc.	4.32E+01	1.51+02	2Q18	+/-25%
b. Dry compressible waste, contaminated equip, etc.	6.67E+01	2.39E+00	2Q18	+/-25%
c. Irradiated components, control rods, etc.	None	None	2Q18	N/A
d. Other (Oil, EHC fluid, sump waste, etc.)	6.32E+00	2.94E-3	2Q18	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%	LSA
Co-60	52.80%	
Ni-63	1.32%	
Cs-137	18.52%	
b. Dry compressible waste, contaminated equip, etc.		
Fe-55	14.37%	LSA
Co-60	83.08%	
c. Irradiated components, control rods, etc.		
None	N/A	N/A
d. Other (Oil, EHC fluid, sump waste etc.)		
Fe-55	14.38%	N/A
Co-60	83.17%	

LASALLE COUNTY NUCLEAR POWER STATION
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2018)
 SOLID WASTE AND IRRADIATED FUEL SHIPMENTS
 SECOND QUARTER

3. Solid Waste Disposition

Number of Shipments	Mode of Transportation	Destination
9	Hittman Transport	Energy Solutions - Bear Creek Facility, Oak Ridge, TN
4	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 (2018)
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 ³)	Total Activity (Ci)	Period	Est. Total Error (%)
a. Spent resins, filter sludges, evaporator bottoms, etc.	2.14E+01	1.82E+02	3Q18	+/-25%
b. Dry compressible waste, contaminated equip, etc.	2.05E+02	1.76E+00	3Q18	+/-25%
c. Irradiated components, control rods, etc.	1.24E-01	1.84E+01	3Q18	N/A
d. Other (Oil, EHC fluid, sump waste, etc.)	None	None	3Q18	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	21.37%	LSA
Co-60	74.40%	
Ni-63	1.42%	
Cs-137	2.35%	
b. Dry compressible waste, contaminated equip, etc.		
Fe-55	10.52%	LSA
Co-60	86.88%	
c. Irradiated components, control rods, etc.		
Mn-54	1.73%	LSA
Co-60	45.08%	
Ni-63	2.11%	
Fe-55	50.08%	
d. Other (Oil, EHC fluid, sump waste, etc.)		
None	N/A	N/A

LASALLE COUNTY NUCLEAR POWER STATION
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2018)
 SOLID WASTE AND IRRADIATED FUEL SHIPMENTS
 THIRD QUARTER

3. Solid Waste Disposition

Number of Shipments	Mode of Transportation	Destination
13	Hittman Transport	Energy Solutions - Bear Creek Facility, Oak Ridge, TN
1	Hittman Transport	Energy Solutions, Clive Facility, Tooele County, UT
1	Tri State Motor Transit	Energy Solutions - Bear Creek Facility, Oak Ridge, TN
1	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

Revision 12 of the Process Control Procedure (RW-AA-100) was implemented on August 9, 2017. The revision removed references to the Fort Calhoun Nuclear Generating Station and added references to the James A. Fitzpatrick Nuclear Power Plant.

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.

LASALLE COUNTY NUCLEAR POWER STATION
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2018)
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 ³)	Total Activity (Ci)	Period	Est. Total Error %
a. Spent resins, filter sludges, evaporator bottoms, etc.	2.10E+01	4.96E+02	4Q18	+/-25%
b. Dry compressible waste, contaminated equip, etc.	None	None	4Q18	N/A
c. Irradiated components, control rods, etc.	None	None	4Q18	N/A
d. Other (Oil, EHC fluid, sump waste, etc.)	None	None	4Q18	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	13.06%	LSA
Co-60	84.21%	
Cs-137	1.63%	
b. Dry compressible waste, contaminated equip, etc.		
None	N/A	N/A
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 (2018)
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS
FOURTH QUARTER

3. Solid Waste Disposition

Number of Shipments	Mode of Transportation	Destination
7	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 (2018)
 RADIOLOGICAL IMPACT ON MAN
 MAXIMUM DOSES RESULTING FROM GASEOUS RELEASES AND COMPLIANCE STATUS

Infant Receptor	Quarterly Limit	Units	1st Quarter	% of Limit	2nd Quarter	% of Limit	3rd Quarter	% of Limit	4th Quarter	% of Limit	Annual Limit	% of Limit
Gamma Air	5.00E+00	mRad	1.98E-03	0.040	3.49E-03	0.070	6.34E-03	0.127	3.82E-03	0.076	1.00E+01	0.156
Beta Air	1.00E+01	mRad	9.05E-05	0.001	1.41E-04	0.001	2.96E-04	0.003	1.49E-04	0.001	2.00E+01	0.003
NG Total Body	2.50E+00	mRem	1.32E-03	0.053	2.33E-03	0.093	4.23E-03	0.169	2.55E-03	0.102	5.00E+00	0.209
NG Skin	7.50E+00	mRem	2.22E-03	0.030	3.92E-03	0.052	7.15E-03	0.095	4.28E-03	0.057	1.50E+01	0.117
NNG Organ	7.50E+00	mRem	6.16E-02	0.821	4.68E-02	0.624	9.89E-02	1.32	3.09E-02	0.411	1.50E+01	1.588
Child Receptor	Quarterly Limit	Units	1st Quarter	% of Limit	2nd Quarter	% of Limit	3rd Quarter	% of Limit	4th Quarter	% of Limit	Annual Limit	% of Limit
Gamma Air	5.00E+00	mRad	1.98E-03	0.040	3.49E-03	0.070	6.34E-03	0.127	3.82E-03	0.076	1.00E+01	0.156
Beta Air	1.00E+01	mRad	9.05E-05	0.001	1.41E-04	0.001	2.96E-04	0.003	1.49E-04	0.001	2.00E+01	0.003
NG Total Body	2.50E+00	mRem	1.32E-03	0.053	2.33E-03	0.093	4.23E-03	0.169	2.55E-03	0.102	5.00E+00	0.209
NG Skin	7.50E+00	mRem	2.22E-03	0.030	3.92E-03	0.052	7.15E-03	0.095	4.28E-03	0.057	1.50E+01	0.117
NNG Organ	7.50E+00	mRem	2.55E-02	0.340	1.94E-02	0.259	4.10E-02	0.546	1.29E-02	0.172	1.50E+01	0.659
Teenager Receptor	Quarterly Limit	Units	1st Quarter	% of Limit	2nd Quarter	% of Limit	3rd Quarter	% of Limit	4th Quarter	% of Limit	Annual Limit	% of Limit
Gamma Air	5.00E+00	mRad	1.98E-03	0.040	3.49E-03	0.070	6.34E-03	0.127	3.82E-03	0.076	1.00E+01	0.156
Beta Air	1.00E+01	mRad	9.05E-05	0.001	1.41E-04	0.001	2.96E-04	0.003	1.49E-04	0.001	2.00E+01	0.003
NG Total Body	2.50E+00	mRem	1.32E-03	0.053	2.33E-03	0.093	4.23E-03	0.169	2.55E-03	0.102	5.00E+00	0.209
NG Skin	7.50E+00	mRem	2.22E-03	0.030	3.92E-03	0.052	7.15E-03	0.095	4.28E-03	0.057	1.50E+01	0.117
NNG Organ	7.50E+00	mRem	1.29E-02	0.171	9.76E-03	0.130	2.06E-02	0.275	6.50E-03	0.087	1.50E+01	0.332
Adult Receptor	Quarterly Limit	Units	1st Quarter	% of Limit	2nd Quarter	% of Limit	3rd Quarter	% of Limit	4th Quarter	% of Limit	Annual Limit	% of Limit
Gamma Air	5.00E+00	mRad	1.98E-03	0.040	3.49E-03	0.070	6.34E-03	0.127	3.82E-03	0.076	1.00E+01	0.156
Beta Air	1.00E+01	mRad	9.05E-05	0.00	1.41E-04	0.001	2.96E-04	0.003	1.49E-04	0.001	2.00E+01	0.003
NG Total Body	2.50E+00	mRem	1.32E-03	0.053	2.33E-03	0.093	4.23E-03	0.169	2.55E-03	0.102	5.00E+00	0.209
NG Skin	7.50E+00	mRem	2.22E-03	0.030	3.92E-03	0.052	7.15E-03	0.095	4.28E-03	0.057	1.50E+01	0.117
NNG Organ	7.50E+00	mRem	8.11E-02	0.108	6.15E-03	0.082	1.30E-02	0.174	4.12E-03	0.055	1.50E+01	0.696

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 (2018)
 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 rd Quarter	% of Limit	4th Quarter	% of Limit	Annual Limit	% of Limit
10CFR50 Appendix I compliance												
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
40CFR141 compliance (nearest public drinking water)												
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 rd Quarter	% of Limit	4th Quarter	% of Limit	Annual Limit	% of Limit
10CFR50 Appendix I compliance												
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
40CFR141 compliance (nearest public drinking water)												
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 rd Quarter	% of Limit	4th Quarter	% of Limit	Annual Limit	% of Limit
10CFR50 Appendix I compliance												
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
40CFR141 compliance (nearest public drinking water)												
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 rd Quarter	% of Limit	4th Quarter	% of Limit	Annual Limit	% of Limit
10CFR50 Appendix I compliance												
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
40CFR141 compliance (nearest public drinking water)												
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 (2018)
RADIOLOGICAL IMPACT ON MAN
MAXIMUM DOSES RESULTING FROM RELEASES AND COMPLIANCE STATUS

10CFR20 / 40CFR190 Compliance

	1 st Quarter Dose (mRem)	2 nd Quarter Dose (mRem)	3 rd Quarter Dose (mRem)	4 th Quarter Dose (mRem)	Annual Dose (mRem)	Annual Limit (mRem/yr)	% Annual Limit
Unit 1							
40CFR190 Compliance							
U1 D ^{Ex}	6.92E-02	9.88E-02	1.00E-01	1.01E-01	3.69E-01	25	1.48
10CFR20 Compliance							
U1 D ^{Tot}	1.31E-01	1.46E-01	1.99E-01	1.27E-01	6.03E-01	100	0.60
40CFR190 Compliance							
Bone	8.67E-03	7.09E-03	7.27E-03	7.14E-03	3.02E-02	25	0.12
Liver	1.70E-03	1.65E-03	1.84E-03	1.70E-03	6.89E-03	25	0.03
Thyroid	6.16E-02	4.68E-02	9.89E-02	2.44E-02	2.32E-01	75	0.31
Kidney	1.73E-03	1.67E-03	1.89E-03	1.71E-03	7.00E-03	25	0.03
Lung	1.51E-03	1.51E-03	1.54E-03	1.59E-03	6.15E-03	25	0.02
GI-LLI	1.52E-03	1.51E-03	1.55E-03	1.61E-03	6.19E-03	25	0.02
Unit 2							
40CFR190 Compliance							
U2 D ^{Ex}	9.70E-02	9.65E-02	9.31E-02	9.85E-02	3.85E-01	25	1.54
10CFR20 Compliance							
U2 D ^{Tot}	9.70E-02	9.65E-02	9.31E-02	9.85E-02	3.85E-01	100	0.39
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 (2018)
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: January - March 2018
 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	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	1	1	0	0	2
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	2	0	0	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: 3

LASALLE COUNTY NUCLEAR POWER STATION
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2018)
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: January - March 2018
 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	2	0	0	2
NE	0	0	0	0	0	0	0
ENE	0	0	0	3	4	0	7
E	0	0	0	1	0	0	1
ESE	0	0	0	2	0	0	2
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	1	1	0	2
SW	0	0	0	2	0	0	2
WSW	0	0	0	3	0	0	3
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
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	14	6	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 (2018)
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: January - March 2018
 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	2	0	0	2
NE	0	0	1	0	2	0	3
ENE	0	0	4	2	1	0	7
E	0	0	1	3	0	0	4
ESE	0	0	0	6	0	0	6
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	1	1	1	0	0	3
SSW	0	0	1	3	2	0	6
SW	0	2	3	2	0	1	8
WSW	0	0	3	4	2	0	9
W	0	1	2	0	0	0	3
WNW	0	0	5	1	1	0	7
NW	0	0	3	1	4	0	8
NNW	0	0	1	0	0	0	1
Variable	0	0	0	0	0	0	0
Total	0	4	27	26	12	1	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: 3

LASALLE COUNTY NUCLEAR POWER STATION
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2018)
METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: January - March 2018
Stability Class - Neutral - 200Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	16	51	28	1	0	97
NNE	0	9	15	8	2	0	34
NE	0	1	7	2	2	0	12
ENE	0	0	11	18	10	0	39
E	0	3	13	15	8	3	42
ESE	1	3	7	9	2	2	24
SE	2	5	9	3	0	0	19
SSE	3	4	2	8	5	0	22
S	1	5	15	12	8	0	41
SSW	1	8	5	13	5	0	32
SW	0	6	14	15	3	1	39
WSW	0	9	16	12	4	1	42
W	0	4	12	22	4	1	43
WNW	1	6	45	58	8	1	119
NW	0	6	22	29	2	0	59
NNW	0	7	47	53	13	0	120
Variable	0	0	0	0	0	0	0
Total	10	92	291	305	77	9	784

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

LASALLE COUNTY NUCLEAR POWER STATION
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2018)
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: January - March 2018
 Stability Class - Slightly Stable - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	3	22	7	5	0	0	37
NNE	0	11	10	1	0	0	22
NE	0	4	17	27	0	0	48
ENE	0	2	22	15	1	0	40
E	0	7	22	20	12	2	63
ESE	1	2	11	0	4	3	21
SE	0	3	7	12	0	0	22
SSE	0	6	12	12	4	0	34
S	2	10	8	25	10	0	55
SSW	0	8	9	30	25	4	76
SW	2	8	10	25	12	1	58
WSW	4	6	11	18	8	0	47
W	1	9	33	10	8	4	65
WNW	4	13	39	17	7	2	82
NW	0	12	33	6	0	0	51
NNW	3	15	16	11	2	0	47
Variable	0	0	0	0	0	0	0
Total	20	138	267	234	93	16	768

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: 3

LASALLE COUNTY NUCLEAR POWER STATION
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2018)
METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: January - March 2018
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	0	1	0	0	0	0	1
NE	0	0	0	0	0	0	0
ENE	0	1	4	0	0	0	5
E	0	12	27	5	0	0	44
ESE	0	8	0	0	0	0	8
SE	0	4	5	3	0	0	12
SSE	0	4	8	0	0	0	12
S	0	16	11	11	1	0	39
SSW	1	3	16	18	5	0	43
SW	1	6	11	20	4	0	42
WSW	0	6	13	4	1	0	24
W	2	24	26	0	0	0	52
WNW	3	26	18	0	0	0	47
NW	1	9	8	0	0	0	18
NNW	0	7	2	0	0	0	9
Variable	0	0	0	0	0	0	0
Total	8	129	149	61	11	0	358

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 (2018)
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: January - March 2018
 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	0	4	0	0	0	4
ESE	0	4	2	0	0	0	6
SE	0	4	3	0	0	0	7
SSE	1	5	4	1	0	0	11
S	0	5	16	0	0	0	21
SSW	0	4	19	12	0	0	35
SW	0	4	8	5	0	0	17
WSW	0	8	15	1	0	0	24
W	0	5	3	0	0	0	8
WNW	0	8	7	0	0	0	15
NW	0	2	0	0	0	0	2
NNW	0	3	0	0	0	0	3
Variable	0	0	0	0	0	0	0
Total	1	52	81	19	0	0	153

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 (2018)
METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: January - March 2018
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 (2018)
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: January - March 2018
 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	1	0	1
ESE	0	0	0	0	1	0	1
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	1	0	1
WSW	0	0	0	1	0	0	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	3	0	4

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

LASALLE COUNTY NUCLEAR POWER STATION
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2018)
METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: January - March 2018
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	1	4	0	5
NE	0	0	0	1	0	0	1
ENE	0	0	0	0	1	3	4
E	0	0	0	8	3	0	11
ESE	0	0	1	2	4	0	7
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	1	1	0	2
SW	0	0	0	0	0	0	0
WSW	0	0	0	1	2	0	3
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	1	2	1	4
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	0	1	15	17	4	37

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 (2018)
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: January - March 2018
 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	5	13	47	32	9	106
NNE	0	8	19	23	7	3	60
NE	0	5	2	20	15	10	52
ENE	1	6	8	10	29	10	64
E	0	3	3	12	16	21	55
ESE	0	6	2	9	8	16	41
SE	1	2	7	6	4	2	22
SSE	2	6	3	2	6	3	22
S	4	8	5	12	12	19	60
SSW	0	6	4	14	16	25	65
SW	2	5	8	22	16	7	60
WSW	0	7	7	18	13	10	55
W	0	3	12	20	16	19	70
WNW	0	5	16	50	34	16	121
NW	1	7	14	45	62	23	152
NNW	0	5	3	32	34	12	86
Variable	0	0	0	0	0	0	0
Total	11	87	126	342	320	205	1091

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 37
 Hours of missing stability measurements in all stability classes: 3

LASALLE COUNTY NUCLEAR POWER STATION
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2018)
METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: January - March 2018
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	5	4	15	2	2	28
NNE	0	4	15	6	0	0	25
NE	1	2	2	6	1	0	12
ENE	1	1	2	6	9	4	23
E	0	4	8	16	19	8	55
ESE	1	3	1	8	4	8	25
SE	3	2	1	9	4	5	24
SSE	1	2	1	9	9	11	33
S	1	3	5	14	14	31	68
SSW	0	3	6	10	13	62	94
SW	2	8	3	7	20	37	77
WSW	2	6	7	6	12	14	47
W	0	3	3	9	14	3	32
WNW	0	3	11	23	15	5	57
NW	1	1	10	14	15	4	45
NNW	0	3	9	17	18	6	53
Variable	0	0	0	0	0	0	0
Total	13	53	88	175	169	200	698

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 (2018)
METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: January - March 2018
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	4	1	9
NNE	0	0	3	3	1	0	7
NE	0	1	0	1	0	0	2
ENE	0	0	0	0	0	0	0
E	0	0	1	3	5	1	10
ESE	1	1	0	3	11	0	16
SE	0	0	0	0	0	0	0
SSE	0	0	2	1	1	0	4
S	0	2	5	8	6	7	28
SSW	0	1	1	8	5	25	40
SW	0	1	0	5	9	15	30
WSW	0	0	5	0	7	5	17
W	0	0	4	7	9	0	20
WNW	0	1	4	9	11	1	26
NW	0	1	3	5	4	1	14
NNW	0	1	3	13	5	0	22
Variable	0	0	0	0	0	0	0
Total	1	9	32	69	78	56	245

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 (2018)
METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: January - March 2018
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	1	0	0	1	3	0	5
NNE	0	0	0	0	0	1	1
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	1	0	0	1	2
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	1	0	1
SSE	0	0	0	1	2	1	4
S	0	0	0	1	1	1	3
SSW	0	0	0	3	2	3	8
SW	0	0	0	1	9	1	11
WSW	0	0	0	0	1	0	1
W	0	0	0	0	0	0	0
WNW	0	1	0	2	3	0	6
NW	0	0	0	0	0	0	0
NNW	0	0	0	3	0	0	3
Variable	0	0	0	0	0	0	0
Total	1	1	1	12	22	8	45

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

LASALLE COUNTY NUCLEAR POWER STATION
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2018)
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: April - June 2018
 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	1	0	0	0	1
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	3	0	0	3
E	0	0	0	0	0	0	0
ESE	0	0	0	1	0	0	1
SE	0	0	2	1	0	0	3
SSE	0	0	0	1	0	0	1
S	0	0	0	2	0	0	2
SSW	0	0	0	8	5	0	13
SW	0	0	0	1	3	4	8
WSW	0	0	0	1	2	0	3
W	0	0	1	0	0	0	1
WNW	0	0	5	2	0	0	7
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	10	20	10	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 (2018)
METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: April - June 2018
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	7	0	0	0	7
NNE	0	0	2	0	0	0	2
NE	0	0	3	4	0	0	7
ENE	0	0	2	3	0	0	5
E	0	0	0	2	0	0	2
ESE	0	0	0	0	0	0	0
SE	0	0	0	1	0	0	1
SSE	0	0	4	0	0	0	4
S	0	2	0	0	0	0	2
SSW	0	0	2	1	2	0	5
SW	0	3	2	1	1	0	7
WSW	0	0	4	3	1	1	9
W	0	3	1	2	1	0	7
WNW	0	0	12	5	0	0	17
NW	0	0	3	1	0	0	4
NNW	0	0	1	3	0	0	4
Variable	0	0	0	0	0	0	0
Total	0	8	43	26	5	1	83

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 (2018)
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: April - June 2018
 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	4	1	0	0	6
NNE	0	3	8	1	0	0	12
NE	0	2	9	4	2	0	17
ENE	0	2	5	6	0	0	13
E	0	1	1	8	0	0	10
ESE	0	1	1	0	0	0	2
SE	0	2	1	2	0	0	5
SSE	0	5	0	1	0	0	6
S	0	3	5	0	0	0	8
SSW	0	3	9	1	1	1	15
SW	0	3	10	1	0	0	14
WSW	0	6	6	5	0	0	17
W	1	3	3	2	0	0	9
WNW	0	1	11	3	0	0	15
NW	0	0	7	1	0	0	8
NNW	0	1	5	4	0	0	10
Variable	0	0	0	0	0	0	0
Total	1	37	85	40	3	1	167

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 (2018)
METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: April - June 2018
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	18	15	0	0	0	35
NNE	1	24	26	6	0	0	57
NE	3	21	48	46	9	0	127
ENE	2	24	55	63	3	0	147
E	1	12	22	5	8	0	48
ESE	2	7	12	3	0	0	24
SE	2	7	9	2	0	0	20
SSE	0	13	14	3	0	0	30
S	3	10	18	5	0	0	36
SSW	2	8	14	4	5	0	33
SW	4	8	11	9	3	0	35
WSW	0	5	13	8	1	0	27
W	3	10	22	10	3	0	48
WNW	3	11	17	34	16	2	83
NW	1	7	16	9	1	0	34
NNW	3	10	27	26	0	0	66
Variable	0	0	0	0	0	0	0
Total	32	195	339	233	49	2	850

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 (2018)
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: April - June 2018
 Stability Class - Slightly Stable - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	3	25	4	0	0	0	32
NNE	0	31	13	1	0	0	45
NE	2	11	27	7	2	0	49
ENE	0	8	44	36	9	0	97
E	1	32	55	8	0	0	96
ESE	2	17	8	0	0	0	27
SE	2	8	11	0	0	0	21
SSE	2	7	7	1	1	0	18
S	4	1	10	7	3	0	25
SSW	2	4	12	15	7	1	41
SW	1	6	10	5	6	1	29
WSW	1	11	12	6	3	0	33
W	0	14	5	7	2	3	31
WNW	2	17	13	14	4	3	53
NW	1	13	9	3	0	0	26
NNW	0	10	16	5	0	0	31
Variable	0	0	0	0	0	0	0
Total	23	215	256	115	37	8	654

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

LASALLE COUNTY NUCLEAR POWER STATION
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2018)
METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: April - June 2018
Stability Class - Moderately Stable - 200Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	2	5	0	0	0	0	7
NNE	0	2	0	0	0	0	2
NE	2	0	1	0	0	0	3
ENE	1	2	0	0	0	0	3
E	0	19	14	0	0	0	33
ESE	0	12	3	0	0	0	15
SE	0	14	1	0	0	0	15
SSE	1	7	5	0	0	0	13
S	0	11	5	5	0	0	21
SSW	1	8	18	6	0	0	33
SW	1	6	11	0	0	0	18
WSW	0	9	8	4	0	0	21
W	1	23	7	0	0	0	31
WNW	0	16	1	1	0	0	18
NW	4	0	0	0	0	0	4
NNW	1	4	0	0	0	0	5
Variable	0	0	0	0	0	0	0
Total	14	138	74	16	0	0	242

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

LASALLE COUNTY NUCLEAR POWER STATION
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2018)
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: April - June 2018
 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	8	0	0	0	0	8
ESE	1	10	0	0	0	0	11
SE	2	7	1	0	0	0	10
SSE	0	8	8	0	0	0	16
S	1	6	18	0	0	0	25
SSW	0	12	17	1	0	0	30
SW	0	8	4	0	0	0	12
WSW	1	7	6	0	0	0	14
W	1	4	1	0	0	0	6
WNW	1	3	0	0	0	0	4
NW	0	0	1	0	0	0	1
NNW	0	3	0	0	0	0	3
Variable	0	0	0	0	0	0	0
Total	7	76	56	1	0	0	140

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 (2018)
METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: April - June 2018
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	1	1
SW	0	0	0	0	0	2	2
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	0	0	0	0	3	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: 4

LASALLE COUNTY NUCLEAR POWER STATION
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2018)
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: April - June 2018
 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	1	0	0	1
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	1	0	0	1
S	0	0	0	0	1	0	1
SSW	0	0	0	0	8	3	11
SW	0	0	0	0	0	5	5
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	2	1	0	3
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	0	0	4	10	8	22

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 (2018)
METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: April - June 2018
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	9	0	0	9
NNE	0	0	2	0	0	0	2
NE	0	0	0	2	2	0	4
ENE	0	0	1	1	3	0	5
E	0	0	0	1	1	0	2
ESE	0	0	0	0	0	0	0
SE	0	0	0	3	1	0	4
SSE	0	1	1	1	1	0	4
S	0	0	1	0	0	0	1
SSW	0	0	1	1	2	0	4
SW	0	0	0	0	0	0	0
WSW	0	0	0	2	3	2	7
W	0	0	0	3	0	2	5
WNW	0	0	2	14	1	0	17
NW	0	0	2	7	0	0	9
NNW	0	0	0	5	0	0	5
Variable	0	0	0	0	0	0	0
Total	0	1	10	49	14	4	78

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

LASALLE COUNTY NUCLEAR POWER STATION
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2018)
METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: April - June 2018
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	4	14	13	16	2	0	49
NNE	1	14	31	21	5	2	74
NE	0	11	23	67	43	16	160
ENE	5	17	33	80	78	22	235
E	1	11	21	30	18	7	88
ESE	2	13	11	11	5	2	44
SE	2	7	16	12	1	0	38
SSE	2	12	14	12	4	0	44
S	0	7	15	11	7	0	40
SSW	1	6	18	20	8	9	62
SW	2	8	14	16	9	8	57
WSW	0	4	15	21	9	2	51
W	2	10	15	11	9	4	51
WNW	3	10	24	14	34	31	116
NW	2	5	23	30	26	4	90
NNW	0	10	20	15	16	1	62
Variable	0	0	0	0	0	0	0
Total	27	159	306	387	274	108	1261

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 (2018)
METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: April - June 2018
Stability Class - Slightly Stable - 375Ft-33Ft Delta-T (F)
Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	1	6	6	3	0	16
NNE	2	3	7	10	1	0	23
NE	0	3	12	7	4	0	26
ENE	0	4	8	26	20	3	61
E	0	9	15	37	16	0	77
ESE	1	5	14	10	10	0	40
SE	0	1	4	5	3	0	13
SSE	0	5	5	5	1	2	18
S	0	0	5	12	8	10	35
SSW	1	2	4	13	13	25	58
SW	0	1	5	7	9	12	34
WSW	0	3	9	12	5	8	37
W	0	2	12	11	4	4	33
WNW	0	1	9	9	9	7	35
NW	0	3	15	14	3	5	40
NNW	2	3	5	4	7	0	21
Variable	0	0	0	0	0	0	0
Total	6	46	135	188	116	76	567

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 (2018)
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: April - June 2018
 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	3	0	0	0	5
NNE	2	1	4	1	0	0	8
NE	1	3	2	0	0	0	6
ENE	0	1	4	0	0	0	5
E	0	2	5	6	2	0	15
ESE	0	1	7	5	2	0	15
SE	0	0	4	6	0	0	10
SSE	0	0	0	11	3	2	16
S	0	0	3	10	2	3	18
SSW	0	0	0	6	8	6	20
SW	0	0	2	23	5	1	31
WSW	0	0	2	2	7	2	13
W	0	0	5	8	2	0	15
WNW	0	0	5	3	3	0	11
NW	0	0	6	3	0	0	9
NNW	0	3	9	0	0	0	12
Variable	0	0	0	0	0	0	0
Total	4	12	61	84	34	14	209

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 (2018)
METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: April - June 2018
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	2	0	0	3
SE	0	0	0	7	0	0	7
SSE	0	0	0	3	0	0	3
S	0	0	0	0	5	2	7
SSW	0	0	0	1	4	10	15
SW	0	0	0	1	1	1	3
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	1	1	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	2	15	10	13	40

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

LASALLE COUNTY NUCLEAR POWER STATION
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2018)
METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: July - September 2018
Stability Class - Extremely Unstable - 200Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	3	2	1	0	6
SW	0	0	6	3	0	0	9
WSW	0	0	7	3	0	0	10
W	0	0	0	0	0	0	0
WNW	0	0	2	1	0	0	3
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	18	9	1	0	28

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 (2018)
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: July - September 2018

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	0	0	0	2
E	0	0	1	0	0	0	1
ESE	0	0	0	0	0	0	0
SE	0	1	0	0	0	0	1
SSE	0	0	0	0	0	0	0
S	0	0	0	1	0	0	1
SSW	0	1	5	2	0	0	8
SW	0	2	14	6	0	0	22
WSW	0	0	9	0	0	0	9
W	0	2	9	0	0	0	11
WNW	0	0	12	0	0	0	12
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	6	53	9	0	0	68

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 (2018)
METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: July - September 2018
Stability Class - Slightly Unstable - 200Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	2	3	1	0	0	6
NNE	0	1	0	1	0	0	2
NE	0	0	4	3	0	0	7
ENE	0	1	3	1	0	0	5
E	0	7	4	0	0	0	11
ESE	0	6	1	0	0	0	7
SE	0	3	1	0	0	0	4
SSE	0	3	4	0	0	0	7
S	0	2	2	2	0	0	6
SSW	0	7	5	5	0	0	17
SW	0	5	18	5	0	0	28
WSW	0	2	3	2	0	0	7
W	0	6	6	1	0	0	13
WNW	0	2	8	5	0	0	15
NW	0	4	14	0	0	0	18
NNW	0	1	8	2	0	0	11
Variable	0	0	0	0	0	0	0
Total	0	52	84	28	0	0	164

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 (2018)
METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: July - September 2018
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	28	16	4	0	0	48
NNE	0	24	20	0	0	0	44
NE	1	21	32	34	0	0	88
ENE	2	22	10	6	0	0	40
E	0	28	30	0	0	0	58
ESE	1	20	12	1	0	0	34
SE	2	21	10	1	0	0	34
SSE	1	12	17	6	1	0	37
S	2	21	14	3	3	0	43
SSW	2	13	20	6	0	0	41
SW	2	12	21	9	0	0	44
WSW	2	13	8	9	0	0	32
W	1	14	11	11	4	0	41
WNW	1	13	19	3	1	0	37
NW	0	10	23	11	0	0	44
NNW	0	24	44	21	0	0	89
Variable	0	0	0	0	0	0	0
Total	17	296	307	125	9	0	754

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 (2018)
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: July - September 2018
 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	35	5	0	0	0	42
NNE	1	20	15	0	0	0	36
NE	1	12	20	0	0	0	33
ENE	1	17	37	2	0	0	57
E	2	21	22	0	0	0	45
ESE	3	20	4	1	0	0	28
SE	4	5	6	0	0	0	15
SSE	7	7	8	3	1	0	26
S	1	15	30	6	0	0	52
SSW	1	12	38	12	0	0	63
SW	1	15	8	3	0	0	27
WSW	1	13	4	5	1	0	24
W	2	8	4	0	2	0	16
WNW	1	14	9	0	0	0	24
NW	0	10	11	0	0	0	21
NNW	1	11	11	0	0	0	23
Variable	0	0	0	0	0	0	0
Total	29	235	232	32	4	0	532

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 (2018)
METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: July - September 2018
Stability Class - Moderately Stable - 200Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	2	11	0	0	0	0	13
NNE	0	1	0	0	0	0	1
NE	4	3	0	0	0	0	7
ENE	3	7	2	0	0	0	12
E	2	40	20	0	0	0	62
ESE	4	32	0	0	0	0	36
SE	3	14	0	0	0	0	17
SSE	3	19	4	0	0	0	26
S	3	22	3	0	0	0	28
SSW	6	17	18	0	0	0	41
SW	1	8	6	0	0	0	15
WSW	4	14	7	0	0	0	25
W	4	13	3	1	0	0	21
WNW	4	28	0	0	0	0	32
NW	3	3	0	0	0	0	6
NNW	3	7	5	0	0	0	15
Variable	0	0	0	0	0	0	0
Total	49	239	68	1	0	0	357

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 (2018)
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: July - September 2018
 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	1	8	0	0	0	0	9
NNE	0	0	0	0	0	0	0
NE	2	0	0	0	0	0	2
ENE	0	2	0	0	0	0	2
E	2	24	5	0	0	0	31
ESE	0	35	0	0	0	0	35
SE	0	25	0	0	0	0	25
SSE	3	28	0	0	0	0	31
S	0	25	6	0	0	0	31
SSW	3	19	7	0	0	0	29
SW	4	26	8	0	0	0	38
WSW	5	14	5	0	0	0	24
W	5	24	0	0	0	0	29
WNW	2	9	0	0	0	0	11
NW	3	0	0	0	0	0	3
NNW	2	3	0	0	0	0	5
Variable	0	0	0	0	0	0	0
Total	32	242	31	0	0	0	305

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 (2018)
METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: July - September 2018
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 (2018)
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: July - September 2018
 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	2	2
SW	0	0	0	1	1	0	2
WSW	0	0	2	6	0	0	8
W	0	0	0	1	0	0	1
WNW	0	0	1	3	1	0	5
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	3	11	2	2	18

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

LASALLE COUNTY NUCLEAR POWER STATION
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2018)
METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: July - September 2018
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	2	2	0	0	4
ESE	0	3	0	0	0	0	3
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	1	6	2	1	10
SW	0	0	6	8	3	0	17
WSW	0	0	5	7	0	0	12
W	0	0	8	1	0	0	9
WNW	0	0	6	3	0	0	9
NW	0	0	1	4	0	0	5
NNW	0	0	0	1	0	0	1
Variable	0	0	0	0	0	0	0
Total	0	3	30	32	5	1	71

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

LASALLE COUNTY NUCLEAR POWER STATION
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2018)
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: July - September 2018
 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	10	21	14	12	0	57
NNE	0	12	16	18	3	0	49
NE	0	13	16	41	49	5	124
ENE	0	9	10	24	14	2	59
E	1	17	44	14	1	0	77
ESE	1	23	18	1	2	0	45
SE	1	16	16	6	2	0	41
SSE	0	10	21	7	0	1	39
S	4	10	23	14	17	5	73
SSW	0	12	20	18	18	6	74
SW	1	6	27	25	19	2	80
WSW	1	7	15	15	6	0	44
W	0	9	11	4	7	7	38
WNW	1	11	17	15	9	3	56
NW	0	4	34	32	15	0	85
NNW	0	7	29	20	29	0	85
Variable	0	0	0	0	0	0	0
Total	10	176	338	268	203	31	1026

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 (2018)
METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: July - September 2018
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	5	1	3	0	11
NNE	2	7	11	20	2	0	42
NE	1	4	11	15	7	0	38
ENE	0	3	31	23	3	0	60
E	1	6	18	28	10	0	63
ESE	3	5	10	13	6	0	37
SE	3	3	9	4	3	0	22
SSE	3	7	11	2	3	2	28
S	2	3	10	17	13	4	49
SSW	1	3	12	11	27	18	72
SW	0	4	5	14	19	3	45
WSW	0	3	15	11	8	3	40
W	0	5	7	7	2	2	23
WNW	1	3	9	13	0	0	26
NW	1	3	9	17	0	0	30
NNW	0	4	4	10	10	0	28
Variable	0	0	0	0	0	0	0
Total	18	65	177	206	116	32	614

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 (2018)
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: July - September 2018
 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	3	3	11	4	24
NNE	0	1	4	5	1	0	11
NE	2	0	0	4	1	0	7
ENE	0	1	0	0	0	0	1
E	0	2	1	10	11	0	24
ESE	0	3	14	17	11	0	45
SE	4	10	7	15	8	0	44
SSE	0	5	12	11	1	0	29
S	0	2	8	17	10	0	37
SSW	0	3	4	17	13	4	41
SW	0	3	14	7	12	2	38
WSW	0	2	10	17	6	0	35
W	0	1	6	8	4	0	19
WNW	0	3	11	8	0	0	22
NW	0	0	10	7	0	0	17
NNW	3	4	4	3	1	0	15
Variable	0	0	0	0	0	0	0
Total	9	43	108	149	90	10	409

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 (2018)
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: July - September 2018
 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	4	1	0	5
SSE	1	0	5	8	3	0	17
S	1	0	2	1	5	0	9
SSW	1	1	1	3	1	0	7
SW	0	4	2	5	0	0	11
WSW	0	0	4	0	0	0	4
W	0	0	4	1	0	0	5
WNW	0	1	7	1	0	0	9
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	3	7	27	23	10	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: 0

LASALLE COUNTY NUCLEAR POWER STATION
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2018)
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: October - December 2018
 Stability Class - Extremely Unstable - 200Ft-33Ft Delta-T (F)
 Winds Measured at 33 Feet

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

LASALLE COUNTY NUCLEAR POWER STATION
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2018)
METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: October - December 2018

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	1	0	0	1
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	1	1	1	0	3
SW	0	0	2	1	3	0	6
WSW	0	0	0	0	1	0	1
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	0	3	5	5	0	13

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

LASALLE COUNTY NUCLEAR POWER STATION
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2018)
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: October - December 2018
 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	0	1	0	0	1
NNE	0	0	1	0	0	0	1
NE	0	0	1	0	0	0	1
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	1	2	0	0	3
SE	0	0	0	2	0	0	2
SSE	0	0	0	0	0	0	0
S	0	0	0	3	0	0	3
SSW	0	0	2	6	0	0	8
SW	0	0	5	3	1	0	9
WSW	0	0	0	1	3	0	4
W	0	0	1	0	0	0	1
WNW	0	0	2	3	2	0	7
NW	0	0	5	2	0	0	7
NNW	0	0	1	0	0	0	1
Variable	0	0	0	0	0	0	0
Total	0	0	19	23	6	0	48

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

LASALLE COUNTY NUCLEAR POWER STATION
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2018)
METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: October - December 2018

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	25	28	1	1	0	56
NNE	1	13	18	2	1	0	35
NE	0	13	23	6	3	2	47
ENE	2	4	18	2	0	0	26
E	0	15	12	0	0	0	27
ESE	0	13	8	6	0	0	27
SE	1	5	7	6	2	1	22
SSE	1	4	2	3	4	2	16
S	1	7	17	8	2	0	35
SSW	0	8	14	15	1	0	38
SW	3	14	14	11	0	1	43
WSW	1	9	34	22	6	2	74
W	1	7	48	31	7	3	97
WNW	1	12	40	40	7	2	102
NW	0	9	31	16	1	0	57
NNW	0	22	67	44	9	4	146
Variable	0	0	0	0	0	0	0
Total	13	180	381	213	44	17	848

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

LASALLE COUNTY NUCLEAR POWER STATION
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2018)
METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: October - December 2018
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	28	8	0	3	0	43
NNE	2	16	32	1	4	0	55
NE	0	5	2	0	0	0	7
ENE	1	9	13	7	5	3	38
E	2	17	42	7	3	0	71
ESE	0	11	14	10	8	0	43
SE	1	1	8	2	1	6	19
SSE	2	5	10	15	1	1	34
S	1	8	25	16	6	0	56
SSW	1	8	20	17	0	0	46
SW	3	6	15	33	1	0	58
WSW	2	11	20	29	14	0	76
W	2	21	29	29	12	2	95
WNW	2	14	25	5	5	9	60
NW	2	22	24	2	0	0	50
NNW	2	31	11	16	0	0	60
Variable	0	0	0	0	0	0	0
Total	27	213	298	189	63	21	811

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

LASALLE COUNTY NUCLEAR POWER STATION
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2018)
METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: October - December 2018
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	15	0	0	0	0	15
NNE	0	5	0	0	0	0	5
NE	0	0	0	0	0	0	0
ENE	1	0	0	0	0	0	1
E	1	19	13	0	0	0	33
ESE	0	12	9	1	0	0	22
SE	1	14	10	1	0	0	26
SSE	0	4	13	3	0	0	20
S	1	6	24	2	0	0	33
SSW	0	4	22	0	0	0	26
SW	3	2	18	8	0	0	31
WSW	0	10	14	1	0	0	25
W	1	26	31	5	0	0	63
WNW	0	24	4	0	0	0	28
NW	2	3	1	0	0	0	6
NNW	2	9	1	0	0	0	12
Variable	0	0	0	0	0	0	0
Total	12	153	160	21	0	0	346

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

LASALLE COUNTY NUCLEAR POWER STATION
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2018)
METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: October - December 2018
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	1	0	0	0	0	0	1
E	1	12	1	0	0	0	14
ESE	0	12	2	0	0	0	14
SE	2	16	1	0	0	0	19
SSE	1	11	4	0	0	0	16
S	1	6	7	0	0	0	14
SSW	1	9	5	0	0	0	15
SW	0	0	5	0	0	0	5
WSW	4	2	5	0	0	0	11
W	3	7	4	0	0	0	14
WNW	1	5	1	0	0	0	7
NW	0	1	0	0	0	0	1
NNW	1	2	0	0	0	0	3
Variable	0	0	0	0	0	0	0
Total	16	83	35	0	0	0	134

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

LASALLE COUNTY NUCLEAR POWER STATION
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2018)
METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: October - December 2018
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: 5

LASALLE COUNTY NUCLEAR POWER STATION
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2018)
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: October - December 2018
 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	1	1
SW	0	0	0	0	0	0	0
WSW	0	0	1	0	0	0	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	1	0	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: 5

LASALLE COUNTY NUCLEAR POWER STATION
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2018)
METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: October - December 2018
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	0	0	0
SSW	0	0	0	1	1	1	3
SW	0	0	0	0	1	3	4
WSW	0	0	1	0	1	0	2
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
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	0	1	2	3	4	10

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

LASALLE COUNTY NUCLEAR POWER STATION
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2018)
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: October - December 2018

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	9	30	29	13	6	87
NNE	0	0	26	32	1	6	65
NE	1	4	19	29	13	6	72
ENE	0	3	14	25	5	6	53
E	0	8	15	9	3	4	39
ESE	2	11	6	11	3	1	34
SE	0	2	6	8	14	8	38
SSE	0	1	3	2	2	8	16
S	0	2	14	13	11	15	55
SSW	1	3	11	15	22	2	54
SW	1	8	25	18	17	6	75
WSW	0	5	22	25	22	20	94
W	0	5	28	39	25	38	135
WNW	1	5	27	57	31	23	144
NW	2	6	36	63	26	13	146
NNW	0	5	15	48	33	13	114
Variable	0	0	0	0	0	0	0
Total	8	77	297	423	241	175	1221

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

LASALLE COUNTY NUCLEAR POWER STATION
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2018)
METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: October - December 2018
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	4	3	11	12	2	0	32
NNE	2	7	19	5	0	0	33
NE	0	5	11	14	12	0	42
ENE	0	3	4	2	2	0	11
E	2	8	10	14	15	5	54
ESE	0	5	8	15	15	15	58
SE	0	5	5	9	4	10	33
SSE	1	2	1	6	2	9	21
S	0	1	2	10	16	21	50
SSW	0	3	9	10	31	14	67
SW	0	5	6	11	21	12	55
WSW	0	0	7	7	14	26	54
W	0	3	7	11	22	11	54
WNW	1	1	14	20	14	21	71
NW	0	3	12	16	6	4	41
NNW	0	4	8	17	5	1	35
Variable	0	0	0	0	0	0	0
Total	10	58	134	179	181	149	711

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: 5

LASALLE COUNTY NUCLEAR POWER STATION
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2018)
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: October - December 2018
 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	5	5	0	2	12
NNE	0	1	5	0	0	0	6
NE	0	1	1	2	1	3	8
ENE	0	1	1	0	0	0	2
E	0	0	2	2	1	0	5
ESE	0	1	4	6	5	0	16
SE	1	4	4	12	7	1	29
SSE	0	1	5	6	7	4	23
S	0	1	3	4	16	11	35
SSW	1	0	6	7	2	3	19
SW	0	2	5	4	13	2	26
WSW	0	3	1	0	1	2	7
W	1	1	0	1	11	1	15
WNW	0	0	3	1	9	5	18
NW	0	1	0	0	1	2	4
NNW	0	1	1	1	2	0	5
Variable	0	0	0	0	0	0	0
Total	3	18	46	51	76	36	230

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

LASALLE COUNTY NUCLEAR POWER STATION
 EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2018)
 METEOROLOGICAL DATA

LaSalle County Generating Station

Period of Record: October - December 2018
 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	4	0	1	0	0	5
NNE	1	0	0	0	0	0	1
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	2	0	2
SSE	0	0	2	2	3	0	7
S	0	0	3	0	0	0	3
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	1	0	1
WSW	1	0	0	0	0	0	1
W	0	0	2	1	1	0	4
WNW	1	1	1	0	0	0	3
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	3	6	8	4	7	0	28

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