NRC RA18-026

2017 Annual Radioactive Effluent Release Report

Part 1

LASALLE COUNTY NUCLEAR POWER STATION

ANNUAL RADIOLOGICAL EFFLUENT RELEASE REPORT (ARERR)

2017

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.

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 (µCi/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 16.90 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 344.5 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.

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:	One
2)	Total activity released:	2.09E+01 uCi

3) Summary of release(s): There was one (1) unplanned release of radioactivity from the site to unrestricted areas during the 2017 reporting period. On 7/17/17 at 10:55, it was identified that the Off-Gas Building (OGB) atmosphere had become pressurized due to the failure of the Off-Gas Building Ventilation (VO) exhaust damper 0VO31YA. The OGB atmosphere remained pressurized until 7/18/17 at 11:08 when the "B" VO train was placed online. During the event, pressurized air from the OGB leaked by the door jambs of exterior doors of the OGB in an unmonitored fashion. Air samples for particulate, iodine, noble gas, and tritium were obtained and analyzed during the event. Since the OGB atmosphere exited the plant via an unmonitored pathway, the radiological release was quantified, and an abnormal release permit was generated. As a conservative measure, leakage flow was set to the rated Off-Gas Building Ventilation flow of 7800 SCFM. An Abnormal Gaseous Release Permit using LaSalle's current off-site dose calculation software (OpenEMS) was prepared. The calculated total activity released during the event was 2.09E+01 microcuries. The permit calculated the organ dose to the maximally

exposed individual as a result of this event to be 4.71E-03 mrem, which is well below the quarterly limit of 7.5 mrem and annual limit of 15 mrem.

b. Liquid

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

7. 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.

8. Effluent Monitoring Instrumentation time clocks and sample anomalies.

a. Time clocks:

There were no effluent monitoring time clocks exceeded during 2017.

b. Sample anomalies:

There were no sampling anomalies affecting the measurement of effluents experienced during 2017.

9. Offsite Dose Calculation Manual (ODCM) Revisions.

There was one revision to the LaSalle Station ODCM in 2017. Revision 9 included a clarification of the types of radiation expected to be observed from the ISFSI (Independent Spent Fuel Storage Installation) and the radwaste storage facilities. The revision also incorporated various editorial and grammatical enhancements.

REC 12.2.1. Condition E. (ODCM Page I-12.2.1-2) was enhanced by adding the note: "Required Action E.2 shall be completed if this Condition is entered." This enhancement places the proper emphasis on the timely restoration (within 30 days) of the inoperable instrument channel (liquid process radiation monitor) without further complicating the APPLICABILITY statement of REC 12.2.1.

Clarified the values to be used for the lower limits of detection for gaseous samples with durations less than 24 hours by placing "≤" prior to "24 hours" in the last sentence of note "d." (ODCM Page I-12.4.1-5).

Removed the remaining shutdown action statements from the ODCM based on current Exelon Fleet guidance. ODCM REC 12.4.8 will now refer the user directly and "Immediately" to Technical Specification 3.7.6, Main Condenser Offgas, the basis for REC 12.4.8.

A copy of the ODCM Change Summary Matrix for revision 9 has been included as Appendix A to this report. Also, a copy of ODCM revision 9 has been included as Appendix B to this report. All changes to revision 9 of the ODCM became effective 12/22/2017.

Each of the above ODCM changes was assessed by a change determination, in accordance with ODCM revision procedures. The change determinations ensured 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, 2017 to April 1, 2018, no radioactive effluents were released from the LaSalle Nuclear Station Independent Spent Fuel Storage Installation (ISFSI). Also, during this period, nine (9) casks were transferred to the outdoor concrete ISFSI storage pad.

LASALLE COUNTY NUCLEAR POWER STATION
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2017)
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	6.70E+02	2.68E+02	3.11E+02	3.22E+02	2.50E+01
2. Average release rate for the period	µCi/sec	8.62E+01	3.41E+01	3.91E+01	4.05E+01	
3. Percent of ODCM limit	%	*	*	*	*	

B. Iodine						
1. Total Iodine – 131	Ci	2.57E-02	5.39E-03	7.24E-03	4.55E-03	1.50E+01
2. Average release rate for the period	µCi/sec	3.30E-03	6.85E-04	9.11E-04	5.73E-04	
3. Percent of ODCM limit	%	*	*	*	*	

C. Particulates						
1. Particulates with half-lives > 8 days	Ci	3.30E-04	3.42E-04	2.52E-04	4.41E-04	3.50E+01
2. Average release rate for the period	µCi/sec	4.24E-05	4.35E-05	3.18E-05	5.55E-05	
3. Percent of ODCM limit	%	*	*	*	*	

D. Tritium						
1. Total Release	Ci	4.94E+00	5.18E+00	3.25E+00	4.16E+00	1.50E+01
2. Average release rate for the period	µCi/sec	6.35E-01	6.59E-01	4.09E-01	5.23E-01	
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	8.45E+00	8.45E+00	8.45E+00	8.45E+00
2. Average release rate for the period	µCi/sec	1.09E+00	1.08E+00	1.06E+00	1.06E+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 (2017)
GASEOUS EFFLUENTS ELEVATED RELEASE UNIT 1 AND UNIT 2

Nuclides Released		Continuous Mode				Batch Mode			
	Unit	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Quarter 1	Quarter 2	Quarter 3	Quarter 4
A. Fission gases									
Kr-85	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Kr-85m	Ci	9.22E+01	9.31E+01	1.09E+02	1.00E+02	N/A	N/A	N/A	N/A
Kr-87	Ci	<LLD	2.38E+00	4.67E+00	5.39E+00	N/A	N/A	N/A	N/A
Kr-88	Ci	1.30E+02	1.50E+02	1.73E+02	1.45E+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	<LLD	<LLD	N/A	N/A	N/A	N/A
Xe-133	Ci	2.90E+02	1.81E+01	2.34E+01	7.11E+01	N/A	N/A	N/A	N/A
Xe-135	Ci	1.25E+02	4.43E+00	1.57E+00	<LLD	N/A	N/A	N/A	N/A
Xe-135m	Ci	3.33E+01	<LLD	<LLD	<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	4.09E-02	2.50E-02	<LLD	<LLD	N/A	N/A	N/A	N/A
Total for Period	Ci	6.70E+02	2.68E+02	3.11E+02	3.22E+02	N/A	N/A	N/A	N/A
B. Iodines									
I-131	Ci	2.57E-02	5.39E-03	7.24E-03	4.55E-03	N/A	N/A	N/A	N/A
I-132	Ci	3.36E-03	7.22E-03	2.09E-02	6.97E-03	N/A	N/A	N/A	N/A
I-133	Ci	2.73E-02	1.99E-02	3.25E-02	1.57E-02	N/A	N/A	N/A	N/A
I-134	Ci	<LLD	7.82E-03	2.37E-02	<LLD	N/A	N/A	N/A	N/A
I-135	Ci	1.16E-02	1.35E-02	3.40E-02	1.00E-02	N/A	N/A	N/A	N/A
Total for Period	Ci	6.80E-02	5.38E-02	1.18E-01	3.73E-02	N/A	N/A	N/A	N/A
Tot. I-131,I-133,I-135	Ci	6.46E-02	3.88E-02	7.37E-02	3.03E-02	N/A	N/A	N/A	N/A
C. Particulates									
Cr-51	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Mn-54	Ci	3.64E-08	<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	9.83E-05	8.47E-05	8.62E-05	1.37E-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	<LLD	2.45E-04	1.35E-04	1.34E-04	N/A	N/A	N/A	N/A
Sr-90	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Zr-95	Ci	<LLD	<LLD	5.66E-08	<LLD	N/A	N/A	N/A	N/A
Mo-99	Ci	<LLD	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Ag-110m	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	1.25E-05	<LLD	<LLD	<LLD	N/A	N/A	N/A	N/A
Ba-140	Ci	2.19E-04	<LLD	3.07E-05	1.70E-04	N/A	N/A	N/A	N/A
La-140	Ci	3.72E-04	3.23E-04	6.94E-04	2.75E-04	N/A	N/A	N/A	N/A
Ce-141	Ci	<LLD	1.25E-05	<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	7.01E-04	6.65E-04	9.46E-04	7.16E-04	N/A	N/A	N/A	N/A
D. Tritium									
H-3 Total for Period	Ci	4.94E+00	5.18E+00	3.25E+00	4.16E+00	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	8.45E+00	8.45E+00	8.45E+00	8.45E+00	N/A	N/A	N/A	N/A

LASALLE COUNTY NUCLEAR POWER STATION
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2017)
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

F. Volume of Dilution Water Used During Period	Liters	0.00E+00	0.00E+00	0.00E+00	0.00E+00

"*" 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 (2017)
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 (2017)
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.	3.26E+01	3.50E+01	1Q17	+/-25%
b. Dry compressible waste, contaminated equip, etc.	1.05E+03	8.44E-01	1Q17	+/-25%
c. Irradiated components, control rods, etc.	None	None	1Q17	N/A
d. Other (Oil, EHC fluid, sump waste, etc.)	None	None	1Q17	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.		
C-14	3.29%	LSA
Fe-55	32.98%	
Co-60	59.58%	
b. Dry compressible waste, contaminated equip, etc.		
Mn-54	1.35%	LSA
Fe-55	33.97%	
Co-60	61.80%	
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

3. Solid Waste Disposition

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

B. Irradiated Fuel Shipments (disposition)

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

C. Changes to the Process Control Program

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

LASALLE COUNTY NUCLEAR POWER STATION
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT (2017)
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.	1.83E+01	1.77E+02	2Q17	+/-25%
b. Dry compressible waste, contaminated equip, etc.	1.46E+02	2.37E+00	2Q17	+/-25%
c. Irradiated components, control rods, etc.	None	None	2Q17	N/A
d. Other (Oil, EHC fluid, sump waste, etc.)	None	None	2Q17	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	25.94%	LSA
Co-60	71.47%	
b. Dry compressible waste, contaminated equip, etc.		
Mn-54	1.35%	LSA
Fe-55	34.00%	
Co-60	61.86%	
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

3. Solid Waste Disposition

Number of Shipments	Mode of Transportation	Destination
3	Hittman Transport	Energy Solutions - Bear Creek Facility, Oak Ridge, TN
3	Hittman Transport	Energy Solutions, Clive Facility, Tooele County, UT
1	Hittman Transport	Waste Control Specialists, Texas Compact Waste Facility, Andrews County, TX
1	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 (2017)
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.	3.39E+01	4.38E+02	3Q17	+/-25%
b. Dry compressible waste, contaminated equip, etc.	1.43E+02	4.67E-01	3Q17	+/-25%
c. Irradiated components, control rods, etc.	None	None	3Q17	N/A
d. Other (Oil, EHC fluid, sump waste, etc.)	None	None	3Q17	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	22.49%	LSA
Co-60	73.78%	
Ni-63	1.84%	
b. Dry compressible waste, contaminated equip, etc.		
Fe-55	30.74%	LSA
Co-60	66.89%	
c. Irradiated components, control rods, etc.		
None	N/A	N/A
d. Other (Oil, EHC fluid, sump waste, etc.)		
None	N/A	N/A

3. Solid Waste Disposition

Number of Shipments	Mode of Transportation	Destination
3	Hittman Transport	Energy Solutions - Bear Creek Facility, Oak Ridge, TN
5	Hittman Transport	Energy Solutions, Clive Facility, Tooele County, UT
1	Hittman Transport	Waste Control Specialists, Texas Compact Waste Facility, Andrews County, TX
3	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

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 (2017)
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.	2.84E+01	1.77E+03	4Q17	+/-25%
b. Dry compressible waste, contaminated equip, etc.	None	None	4Q17	N/A
c. Irradiated components, control rods, etc.	None	None	4Q17	N/A
d. Other (Oil, EHC fluid, sump waste, etc.)	None	None	4Q17	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	24.40%	LSA
Co-60	72.94%	
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

3. Solid Waste Disposition

Number of Shipments	Mode of Transportation	Destination
3	Hittman Transport	Energy Solutions, Bear Creek Facility, Oak Ridge, TN for storage prior to processing at Energy Solution's Erwin Resin Facility, Erwin, TN
1	Hittman Transport	Energy Solutions, Erwin Resin Facility, Erwin, TN
3	Hittman Transport	Energy Solutions, Clive Facility, Tooele, County, UT
2	Interstate Ventures	Energy Solutions, Bear Creek Facility, Oak Ridge, TN for storage prior to processing at Energy Solution's Erwin Resin Facility, Erwin, TN
1	Interstate Ventures	Energy Solutions, Clive Facility, Tooele, County, UT

B. Irradiated Fuel Shipments (disposition)

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

C. Changes to the Process Control Program

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 (2017)
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	5.11E-03	0.102	5.08E-03	0.102	5.86E-03	0.117	4.98E-03	0.100	1.00E+01	0.210
Beta Air	1.00E+01	mRad	3.21E-04	0.003	1.82E-04	0.002	2.14E-04	0.002	2.02E-04	0.002	2.00E+01	0.005
NG Total Body	2.50E+00	mRem	3.41E-03	0.136	3.39E-03	0.135	3.91E-03	0.156	3.32E-03	0.133	5.00E+00	0.280
NG Skin	7.50E+00	mRem	5.78E-03	0.077	5.69E-03	0.076	6.57E-03	0.088	5.58E-03	0.074	1.50E+01	0.157
NNG Organ	7.50E+00	mRem	1.24E-01	1.648	2.77E-02	0.370	3.70E-02	0.494	2.36E-02	0.315	1.50E+01	1.413

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	5.11E-03	0.102	5.08E-03	0.102	5.86E-03	0.117	4.98E-03	0.100	1.00E+01	0.210
Beta Air	1.00E+01	mRad	3.21E-04	0.003	1.82E-04	0.002	2.14E-04	0.002	2.02E-04	0.002	2.00E+01	0.005
NG Total Body	2.50E+00	mRem	3.41E-03	0.136	3.39E-03	0.135	3.91E-03	0.156	3.32E-03	0.133	5.00E+00	0.280
NG Skin	7.50E+00	mRem	5.78E-03	0.077	5.69E-03	0.076	6.57E-03	0.088	5.58E-03	0.074	1.50E+01	0.157
NNG Organ	7.50E+00	mRem	5.11E-02	0.681	1.16E-02	0.154	1.54E-02	0.205	9.86E-03	0.131	1.50E+01	0.586

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	5.11E-03	0.102	5.08E-03	0.102	5.86E-03	0.117	4.98E-03	0.100	1.00E+01	0.210
Beta Air	1.00E+01	mRad	3.21E-04	0.003	1.82E-04	0.002	2.14E-04	0.002	2.02E-04	0.002	2.00E+01	0.005
NG Total Body	2.50E+00	mRem	3.41E-03	0.136	3.39E-03	0.135	3.91E-03	0.156	3.32E-03	0.133	5.00E+00	0.280
NG Skin	7.50E+00	mRem	5.78E-03	0.077	5.69E-03	0.076	6.57E-03	0.088	5.58E-03	0.074	1.50E+01	0.157
NNG Organ	7.50E+00	mRem	2.58E-02	0.344	5.77E-03	0.077	7.71E-03	0.103	4.92E-03	0.066	1.50E+01	0.295

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	5.11E-03	0.102	5.08E-03	0.102	5.86E-03	0.117	4.98E-03	0.100	1.00E+01	0.210
Beta Air	1.00E+01	mRad	3.21E-04	0.003	1.82E-04	0.002	2.14E-04	0.002	2.02E-04	0.002	2.00E+01	0.005
NG Total Body	2.50E+00	mRem	3.41E-03	0.136	3.39E-03	0.135	3.91E-03	0.156	3.32E-03	0.133	5.00E+00	0.280
NG Skin	7.50E+00	mRem	5.78E-03	0.077	5.69E-03	0.076	6.57E-03	0.088	5.58E-03	0.074	1.50E+01	0.157
NNG Organ	7.50E+00	mRem	1.63E-02	0.217	3.63E-03	0.048	4.86E-03	0.065	3.09E-03	0.041	1.50E+01	0.186

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 (2017)
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	3rd 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	3rd 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	3rd 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	3rd 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 (2017)
RADIOLOGICAL IMPACT ON MAN
MAXIMUM DOSES RESULTING FROM RELEASES AND COMPLIANCE STATUS

10CFR20 / 40CFR190 Compliance

	1st Quarter Dose (mRem)	2nd Quarter Dose (mRem)	3rd Quarter Dose (mRem)	4th Quarter Dose (mRem)	Annual Dose (mRem)	Annual Limit (mRem/yr)	% Annual Limit
Unit 1							
						40CFR190 Compliance	
U1 D^{Ex}	9.40E-02	9.60E-02	1.00E-01	1.02E-01	3.92E-01	25	1.57
						10CFR20 Compliance	
U1 D^{Tot}	2.18E-01	1.24E-01	1.37E-01	1.25E-01	6.04E-01	100	0.60
						40CFR190 Compliance	
Bone	7.15E-03	6.91E-03	6.93E-03	6.89E-03	2.79E-02	25	0.11
Liver	1.85E-03	1.55E-03	1.58E-03	1.54E-03	6.52E-03	25	0.03
Thyroid	1.24E-01	2.77E-02	3.70E-02	2.36E-02	2.12E-01	75	0.28
Kidney	1.91E-03	1.56E-03	1.60E-03	1.55E-03	6.62E-03	25	0.03
Lung	1.47E-03	1.47E-03	1.47E-03	1.47E-03	5.88E-03	25	0.02
GI-LLI	1.48E-03	1.47E-03	1.47E-03	1.47E-03	5.90E-03	25	0.02
Unit 2							
						40CFR190 Compliance	
U2 D^{Ex}	6.11E-02	9.40E-02	9.68E-02	9.89E-02	3.51E-01	25	1.40
						10CFR20 Compliance	
U2 D^{Tot}	6.11E-02	9.40E-02	9.68E-02	9.89E-02	3.51E-01	100	0.35
						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 Generating Station

Period of Record: January - March 2017
Stability Class - Extremely Unstable - 200Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
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	3	0	4
SSE	0	0	1	0	1	0	2
S	0	0	1	0	0	0	1
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	5	5
WSW	0	0	0	0	2	0	2
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	0	2	1	6	5	14

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 Generating Station

Period of Record: January - March 2017
Stability Class - Moderately Unstable - 200Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
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	1	0	0	0	1
ESE	0	0	2	0	1	0	3
SE	0	0	1	2	1	0	4
SSE	0	0	1	2	2	0	5
S	0	1	2	0	0	0	3
SSW	0	0	1	1	1	0	3
SW	0	0	2	0	1	1	4
WSW	0	0	3	1	0	0	4
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	5	0	0	5
NNW	0	0	0	2	0	0	2
Variable	0	0	0	0	0	0	0
Total	0	1	13	14	6	1	35

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 Generating Station

Period of Record: January - March 2017
Stability Class - Slightly Unstable - 200Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
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	2	0	0	0	2
E	0	0	3	1	0	0	4
ESE	0	0	0	0	0	0	0
SE	0	0	0	2	1	0	3
SSE	0	0	0	4	1	0	5
S	0	2	4	0	0	0	6
SSW	0	4	7	3	0	0	14
SW	0	0	1	2	0	0	3
WSW	0	0	1	0	1	0	2
W	0	0	0	3	1	0	4
WNW	0	0	1	7	0	0	8
NW	0	0	4	4	0	0	8
NNW	0	0	0	1	0	0	1
Variable	0	0	0	0	0	0	0
Total	0	6	23	29	4	0	62

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

LaSalle County Generating Station

Period of Record: January - March 2017
Stability Class - Neutral - 200Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	13	43	16	0	0	72
NNE	0	20	26	1	0	0	47
NE	1	3	15	15	0	0	34
ENE	1	4	13	15	3	1	37
E	1	9	15	10	1	0	36
ESE	1	10	13	2	1	0	27
SE	2	8	4	5	1	0	20
SSE	0	5	3	14	4	0	26
S	2	7	8	8	16	0	41
SSW	0	5	8	15	10	0	38
SW	0	2	17	12	0	0	31
WSW	1	2	6	4	10	0	23
W	2	9	18	25	10	5	69
WNW	0	10	58	110	21	0	199
NW	1	7	41	38	9	3	99
NNW	0	3	59	37	0	0	99
Variable	0	0	0	0	0	0	0
Total	12	117	347	327	86	9	898

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 38
Hours of missing stability measurements in all stability classes: 2

LaSalle County Generating Station

Period of Record: January - March 2017
Stability Class - Slightly Stable - 200Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	1	26	11	5	0	0	43
NNE	3	16	14	1	0	0	34
NE	0	0	18	4	0	0	22
ENE	1	5	25	20	9	1	61
E	2	9	39	11	7	0	68
ESE	0	10	15	7	5	0	37
SE	1	5	13	7	0	0	26
SSE	0	2	6	23	7	0	38
S	2	2	11	29	17	8	69
SSW	0	3	6	21	3	5	38
SW	1	4	7	16	1	1	30
WSW	1	4	12	14	4	1	36
W	1	9	27	25	11	9	82
WNW	2	18	32	20	27	7	106
NW	0	11	37	9	2	4	63
NNW	0	5	11	5	0	0	21
Variable	0	0	0	0	0	0	0
Total	15	129	284	217	93	36	774

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 5
Hours of missing stability measurements in all stability classes: 2

LaSalle County Generating Station

Period of Record: January - March 2017
Stability Class - Moderately Stable - 200Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	2	2	0	0	0	4
NNE	0	2	0	0	0	0	2
NE	0	3	0	0	0	0	3
ENE	0	0	1	0	0	0	1
E	0	2	7	0	0	0	9
ESE	0	5	2	0	0	0	7
SE	1	10	7	2	0	0	20
SSE	1	8	8	0	0	0	17
S	0	5	9	1	0	0	15
SSW	1	3	7	3	0	0	14
SW	1	7	12	2	0	0	22
WSW	0	7	6	13	0	0	26
W	0	22	7	2	0	0	31
WNW	1	10	3	2	1	1	18
NW	0	5	2	0	0	0	7
NNW	1	2	0	0	0	0	3
Variable	0	0	0	0	0	0	0
Total	6	93	73	25	1	1	199

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 Generating Station

Period of Record: January - March 2017
Stability Class - Extremely Stable - 200Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	1	3	0	0	0	0	4
NNE	0	2	0	0	0	0	2
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	1	5	0	0	0	6
ESE	0	5	1	0	0	0	6
SE	1	11	11	0	0	0	23
SSE	0	2	2	0	0	0	4
S	0	3	7	0	0	0	10
SSW	0	6	9	1	0	0	16
SW	0	6	6	6	0	0	18
WSW	0	5	10	5	0	0	20
W	1	13	3	0	0	0	17
WNW	0	4	0	0	0	0	4
NW	0	1	0	0	0	0	1
NNW	0	1	1	0	0	0	2
Variable	0	0	0	0	0	0	0
Total	3	63	55	12	0	0	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: 2

LaSalle County Generating Station

Period of Record: January - March 2017
Stability Class - Extremely Unstable - 375Ft-33Ft Delta-T (F)
Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
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 Generating Station

Period of Record: January - March 2017
Stability Class - Moderately Unstable - 375Ft-33Ft Delta-T (F)
Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
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	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	2	2

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

LaSalle County Generating Station

Period of Record: January - March 2017
Stability Class - Slightly Unstable - 375Ft-33Ft Delta-T (F)
Winds Measured at 375 Feet

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

LaSalle County Generating Station

Period of Record: January - March 2017
Stability Class - Neutral - 375Ft-33Ft Delta-T (F)
Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	2	21	37	18	0	78
NNE	0	3	40	18	11	0	72
NE	0	5	4	19	19	0	47
ENE	1	1	5	21	20	14	62
E	0	4	7	15	10	10	46
ESE	0	7	5	12	12	7	43
SE	0	4	7	10	6	2	29
SSE	1	7	2	9	13	6	38
S	0	7	7	12	9	36	71
SSW	0	2	12	14	7	27	62
SW	0	3	6	24	9	3	45
WSW	0	4	4	12	8	13	41
W	1	6	10	18	36	30	101
WNW	0	3	13	62	83	36	197
NW	1	1	22	79	50	23	176
NNW	0	1	13	39	16	1	70
Variable	0	0	0	0	0	0	0
Total	4	60	178	401	327	208	1178

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 90
Hours of missing stability measurements in all stability classes: 2

LaSalle County Generating Station

Period of Record: January - March 2017
Stability Class - Slightly Stable - 375Ft-33Ft Delta-T (F)
Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	1	9	4	2	0	16
NNE	0	7	4	5	0	0	16
NE	0	4	2	9	1	0	16
ENE	1	6	5	9	1	0	22
E	0	1	7	14	13	0	35
ESE	0	3	6	15	11	4	39
SE	0	1	8	7	7	4	27
SSE	0	1	2	12	19	16	50
S	0	1	2	11	7	41	62
SSW	0	1	3	4	12	23	43
SW	0	0	5	11	12	16	44
WSW	0	0	3	8	12	14	37
W	0	2	5	12	17	32	68
WNW	0	2	11	18	11	40	82
NW	0	4	10	23	20	11	68
NNW	0	1	4	7	5	1	18
Variable	0	0	0	0	0	0	0
Total	1	35	86	169	150	202	643

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 21
Hours of missing stability measurements in all stability classes: 2

LaSalle County Generating Station

Period of Record: January - March 2017
Stability Class - Moderately Stable - 375Ft-33Ft Delta-T (F)
Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	0	1	1	1	1	4
NNE	0	1	3	1	0	0	5
NE	0	1	1	0	0	0	2
ENE	0	0	0	0	0	0	0
E	0	1	0	0	0	0	1
ESE	0	0	0	1	0	0	1
SE	0	2	1	2	3	0	8
SSE	0	0	1	11	3	4	19
S	0	0	2	6	6	4	18
SSW	0	0	6	9	4	3	22
SW	0	0	10	5	4	4	23
WSW	0	4	2	7	0	5	18
W	0	1	2	4	2	1	10
WNW	0	0	1	2	1	0	4
NW	0	0	6	3	0	0	9
NNW	0	0	1	1	0	0	2
Variable	0	0	0	0	0	0	0
Total	0	10	37	53	24	22	146

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 Generating Station

Period of Record: January - March 2017
Stability Class - Extremely Stable - 375Ft-33Ft Delta-T (F)
Winds Measured at 375 Feet

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

LaSalle County Generating Station

Period of Record: April - June 2017
Stability Class - Extremely Unstable - 200Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	0	0	1	0	0	1
NNE	0	0	0	0	0	0	0
NE	0	0	2	8	0	0	10
ENE	0	0	0	4	0	0	4
E	0	0	0	1	0	0	1
ESE	0	0	0	0	0	0	0
SE	0	0	1	0	0	0	1
SSE	0	0	0	0	0	0	0
S	0	0	0	6	6	2	14
SSW	0	0	1	5	13	0	19
SW	0	0	1	11	5	0	17
WSW	0	0	1	1	0	0	2
W	0	0	0	8	2	0	10
WNW	0	0	0	7	0	0	7
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	6	53	26	2	87

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

Period of Record: April - June 2017
Stability Class - Moderately Unstable - 200Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	0	0	7	0	0	7
NNE	0	0	1	0	0	0	1
NE	0	0	0	6	0	0	6
ENE	0	0	0	2	0	0	2
E	0	0	1	0	0	0	1
ESE	0	0	5	1	0	0	6
SE	0	0	2	5	0	0	7
SSE	0	0	2	0	1	1	4
S	0	0	0	1	4	0	5
SSW	0	0	5	2	2	0	9
SW	0	1	6	8	1	3	19
WSW	0	4	5	8	1	0	18
W	0	1	5	14	2	0	22
WNW	0	0	9	18	1	0	28
NW	0	1	6	2	0	0	9
NNW	0	0	1	2	0	0	3
Variable	0	0	0	0	0	0	0
Total	0	7	48	76	12	4	147

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

Period of Record: April - June 2017
Stability Class - Slightly Unstable - 200Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	1	9	5	0	0	15
NNE	0	1	3	2	0	0	6
NE	0	0	3	2	0	0	5
ENE	0	0	0	2	0	0	2
E	0	2	2	2	0	0	6
ESE	0	0	7	0	0	0	7
SE	0	3	3	2	0	0	8
SSE	0	4	2	0	1	0	7
S	0	2	5	2	2	1	12
SSW	0	3	4	6	4	0	17
SW	0	4	5	6	3	0	18
WSW	0	3	3	8	1	0	15
W	0	5	8	10	2	0	25
WNW	0	1	12	20	5	0	38
NW	0	2	3	1	0	0	6
NNW	0	0	6	4	0	0	10
Variable	0	0	0	0	0	0	0
Total	0	31	75	72	18	1	197

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

LaSalle County Generating Station

Period of Record: April - June 2017
Stability Class - Neutral - 200Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	7	13	7	0	0	27
NNE	1	14	23	11	3	0	52
NE	0	8	25	39	13	2	87
ENE	1	13	15	11	11	3	54
E	1	3	15	13	8	0	40
ESE	1	4	12	6	0	0	23
SE	0	4	10	5	0	0	19
SSE	0	8	9	4	1	1	23
S	0	3	7	6	3	3	22
SSW	2	3	11	12	7	0	35
SW	0	5	10	13	11	1	40
WSW	1	8	9	14	12	1	45
W	0	7	26	19	10	0	62
WNW	1	12	20	29	17	0	79
NW	0	11	11	4	1	0	27
NNW	0	8	15	14	12	0	49
Variable	0	0	0	0	0	0	0
Total	8	118	231	207	109	11	684

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

Period of Record: April - June 2017
Stability Class - Slightly Stable - 200Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	1	24	7	8	3	0	43
NNE	0	23	26	4	0	0	53
NE	1	8	18	8	0	0	35
ENE	1	9	13	11	2	0	36
E	1	22	37	19	2	0	81
ESE	1	4	12	1	1	0	19
SE	0	5	7	1	0	0	13
SSE	2	2	6	5	0	0	15
S	0	2	10	17	3	0	32
SSW	0	5	23	32	5	0	65
SW	1	4	23	22	10	3	63
WSW	0	7	25	9	0	0	41
W	0	7	18	8	5	0	38
WNW	1	6	15	12	9	0	43
NW	0	6	14	3	0	0	23
NNW	1	7	10	3	0	0	21
Variable	0	0	0	0	0	0	0
Total	10	141	264	163	40	3	621

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

Period of Record: April - June 2017
Stability Class - Moderately Stable - 200Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	2	5	0	0	0	0	7
NNE	0	8	0	0	0	0	8
NE	2	1	1	0	0	0	4
ENE	1	2	1	0	0	0	4
E	4	17	21	0	0	0	42
ESE	3	13	2	0	0	0	18
SE	2	4	1	2	0	0	9
SSE	3	4	3	4	0	0	14
S	3	5	10	12	0	0	30
SSW	1	9	26	3	0	0	39
SW	0	7	14	4	0	0	25
WSW	0	6	20	0	0	0	26
W	0	22	25	1	0	0	48
WNW	1	11	1	0	0	0	13
NW	1	3	0	0	0	0	4
NNW	0	4	2	0	0	0	6
Variable	0	0	0	0	0	0	0
Total	23	121	127	26	0	0	297

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

LaSalle County Generating Station

Period of Record: April - June 2017
Stability Class - Extremely Stable - 200Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	1	3	0	0	0	0	4
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	1	5	0	0	0	0	6
ESE	0	13	7	0	0	0	20
SE	1	12	2	0	0	0	15
SSE	0	16	0	0	0	0	16
S	0	8	4	0	0	0	12
SSW	0	3	9	0	0	0	12
SW	0	11	4	0	0	0	15
WSW	0	7	9	0	0	0	16
W	0	11	9	1	0	0	21
WNW	0	7	0	0	0	0	7
NW	1	2	0	0	0	0	3
NNW	0	1	0	0	0	0	1
Variable	0	0	0	0	0	0	0
Total	4	99	44	1	0	0	148

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

Period of Record: April - June 2017
Stability Class - Extremely Unstable - 375Ft-33Ft Delta-T (F)
Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
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	2	4	6
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	2	6	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: 3

LaSalle County Generating Station

Period of Record: April - June 2017
Stability Class - Moderately Unstable - 375Ft-33Ft Delta-T (F)
Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	1	0	2	3
ENE	0	0	0	0	3	0	3
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	2	2	4
SSW	0	0	0	1	2	4	7
SW	0	0	0	4	3	1	8
WSW	0	0	0	0	0	0	0
W	0	0	0	0	3	0	3
WNW	0	0	0	0	2	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	6	15	9	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

Period of Record: April - June 2017
Stability Class - Slightly Unstable - 375Ft-33Ft Delta-T (F)
Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	0	0	0	7	0	7
NNE	0	0	0	1	0	0	1
NE	0	0	0	2	7	1	10
ENE	0	1	0	0	2	0	3
E	0	0	0	0	0	0	0
ESE	0	0	0	1	0	0	1
SE	0	0	1	1	1	0	3
SSE	0	0	3	0	0	1	4
S	0	0	0	0	7	5	12
SSW	0	0	2	1	2	9	14
SW	0	0	0	3	6	2	11
WSW	0	0	1	1	2	1	5
W	0	0	2	3	8	3	16
WNW	0	0	2	2	7	0	11
NW	0	0	1	3	1	0	5
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	1	12	18	50	22	103

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

LaSalle County Generating Station

Period of Record: April - June 2017
Stability Class - Neutral - 375Ft-33Ft Delta-T (F)
Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	1	11	13	20	10	6	61
NNE	0	10	21	16	10	9	66
NE	0	7	9	36	50	38	140
ENE	0	14	10	17	19	19	79
E	0	6	10	14	17	8	55
ESE	0	1	19	14	5	3	42
SE	0	3	13	15	4	0	35
SSE	1	8	8	8	3	3	31
S	0	3	5	7	9	14	38
SSW	1	4	3	16	16	19	59
SW	1	7	12	23	17	20	80
WSW	0	12	14	22	28	13	89
W	0	9	10	39	30	14	102
WNW	0	7	18	38	47	29	139
NW	0	2	19	23	13	11	68
NNW	0	2	10	18	14	16	60
Variable	0	0	0	0	0	0	0
Total	4	106	194	326	292	222	1144

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

Period of Record: April - June 2017
Stability Class - Slightly Stable - 375Ft-33Ft Delta-T (F)
Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	1	6	8	4	1	20
NNE	0	4	9	2	8	0	23
NE	3	3	12	10	14	0	42
ENE	0	3	18	10	2	0	33
E	0	5	10	26	10	3	54
ESE	0	3	12	9	11	1	36
SE	0	1	3	3	6	1	14
SSE	0	0	2	3	5	4	14
S	0	1	2	3	6	26	38
SSW	0	2	5	13	20	42	82
SW	0	4	7	12	39	31	93
WSW	0	2	7	13	19	2	43
W	0	2	11	17	5	6	41
WNW	0	0	3	27	15	5	50
NW	0	3	2	4	8	0	17
NNW	2	2	2	6	8	0	20
Variable	0	0	0	0	0	0	0
Total	5	36	111	166	180	122	620

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

Period of Record: April - June 2017
Stability Class - Moderately Stable - 375Ft-33Ft Delta-T (F)
Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	2	1	4	1	0	0	8
NNE	2	0	1	3	0	0	6
NE	0	2	0	1	0	0	3
ENE	0	2	1	2	0	0	5
E	0	1	6	6	1	0	14
ESE	0	2	4	4	2	0	12
SE	0	1	4	7	9	3	24
SSE	0	1	3	6	3	0	13
S	0	2	4	9	4	4	23
SSW	0	2	10	6	4	7	29
SW	0	3	5	6	4	3	21
WSW	0	1	2	10	2	0	15
W	0	0	0	8	13	4	25
WNW	0	1	1	11	8	0	21
NW	1	2	7	1	0	0	11
NNW	1	0	8	1	0	0	10
Variable	0	0	0	0	0	0	0
Total	6	21	60	82	50	21	240

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

Period of Record: April - June 2017
Stability Class - Extremely Stable - 375Ft-33Ft Delta-T (F)
Winds Measured at 375 Feet

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

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

Period of Record: July - September 2017
Stability Class - Extremely Unstable - 200Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	0	1	0	0	0	1
NNE	0	0	0	0	0	0	0
NE	0	0	2	0	0	0	2
ENE	0	0	3	4	0	0	7
E	0	0	1	5	0	0	6
ESE	0	0	3	0	0	0	3
SE	0	0	1	0	0	0	1
SSE	0	1	1	0	0	0	2
S	0	3	7	1	0	0	11
SSW	0	1	13	1	0	0	15
SW	0	1	2	4	1	0	8
WSW	0	1	11	2	3	0	17
W	0	1	8	7	0	0	16
WNW	0	1	9	10	0	0	20
NW	0	0	5	2	0	0	7
NNW	0	0	0	2	0	0	2
Variable	0	0	0	0	0	0	0
Total	0	9	67	38	4	0	118

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 Generating Station

Period of Record: July - September 2017
Stability Class - Moderately Unstable - 200Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	0	9	1	0	0	10
NNE	0	0	4	0	0	0	4
NE	0	0	6	0	0	0	6
ENE	0	0	3	0	0	0	3
E	0	1	6	0	0	0	7
ESE	0	2	4	1	0	0	7
SE	0	3	4	0	0	0	7
SSE	0	4	1	0	0	0	5
S	0	6	6	1	0	0	13
SSW	0	6	10	0	0	0	16
SW	0	4	7	1	1	0	13
WSW	0	9	7	0	0	0	16
W	0	7	7	1	0	0	15
WNW	0	6	10	8	0	0	24
NW	0	3	4	3	0	0	10
NNW	0	0	4	1	0	0	5
Variable	0	0	0	0	0	0	0
Total	0	51	92	17	1	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: 0

LaSalle County Generating Station

Period of Record: July - September 2017
Stability Class - Slightly Unstable - 200Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	2	3	0	0	0	5
NNE	0	1	9	0	0	0	10
NE	0	4	4	0	0	0	8
ENE	0	5	6	0	0	0	11
E	1	9	3	0	0	0	13
ESE	0	4	5	0	0	0	9
SE	0	6	4	0	0	0	10
SSE	0	6	5	0	0	0	11
S	0	9	3	1	0	0	13
SSW	0	4	2	0	0	0	6
SW	1	7	2	2	0	0	12
WSW	0	5	5	5	0	0	15
W	1	13	3	2	0	0	19
WNW	0	9	8	3	0	0	20
NW	0	6	5	2	0	0	13
NNW	0	5	19	1	0	0	25
Variable	0	0	0	0	0	0	0
Total	3	95	86	16	0	0	200

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 Generating Station

Period of Record: July - September 2017
Stability Class - Neutral - 200Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	4	15	12	0	0	0	31
NNE	1	32	21	2	0	0	56
NE	5	17	19	0	0	0	41
ENE	2	19	16	14	0	0	51
E	3	23	7	0	0	0	33
ESE	3	18	7	0	0	0	28
SE	1	14	6	0	0	0	21
SSE	5	12	7	3	0	0	27
S	2	12	3	1	0	0	18
SSW	2	9	15	0	0	0	26
SW	3	12	12	4	0	0	31
WSW	3	12	11	3	0	0	29
W	1	9	15	12	0	0	37
WNW	1	9	19	9	0	0	38
NW	1	11	19	3	0	0	34
NNW	2	11	33	7	0	0	53
Variable	0	0	0	0	0	0	0
Total	39	235	222	58	0	0	554

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 Generating Station

Period of Record: July - September 2017
Stability Class - Slightly Stable - 200Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	2	20	9	0	0	0	31
NNE	3	34	5	0	0	0	42
NE	2	15	18	0	0	0	35
ENE	2	6	19	3	0	0	30
E	0	32	27	0	0	0	59
ESE	4	14	0	0	0	0	18
SE	3	12	3	0	0	0	18
SSE	4	12	4	0	0	0	20
S	5	8	8	0	0	0	21
SSW	4	8	9	3	0	0	24
SW	2	12	10	4	0	0	28
WSW	2	8	26	3	1	0	40
W	1	15	21	2	0	0	39
WNW	2	14	7	0	0	0	23
NW	5	17	11	1	0	0	34
NNW	3	13	4	1	0	0	21
Variable	0	0	0	0	0	0	0
Total	44	240	181	17	1	0	483

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 Generating Station

Period of Record: July - September 2017
Stability Class - Moderately Stable - 200Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	2	21	0	0	0	0	23
NNE	0	17	0	0	0	0	17
NE	1	1	0	0	0	0	2
ENE	1	2	0	0	0	0	3
E	0	33	16	0	0	0	49
ESE	3	24	0	0	0	0	27
SE	2	13	0	0	0	0	15
SSE	2	15	0	0	0	0	17
S	3	13	7	0	0	0	23
SSW	2	14	4	0	0	0	20
SW	2	16	4	1	0	0	23
WSW	1	13	13	0	0	0	27
W	2	14	5	0	0	0	21
WNW	11	23	6	0	0	0	40
NW	3	8	0	0	0	0	11
NNW	6	5	0	0	0	0	11
Variable	0	0	0	0	0	0	0
Total	41	232	55	1	0	0	329

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 Generating Station

Period of Record: July - September 2017
Stability Class - Extremely Stable - 200Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	3	0	0	0	0	3
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	23	5	0	0	0	29
ESE	1	25	0	0	0	0	26
SE	5	56	1	0	0	0	62
SSE	2	36	1	0	0	0	39
S	1	48	1	0	0	0	50
SSW	1	37	8	0	0	0	46
SW	2	18	10	0	0	0	30
WSW	1	10	13	0	0	0	24
W	1	27	4	0	0	0	32
WNW	2	17	0	0	0	0	19
NW	0	2	0	0	0	0	2
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	18	302	43	0	0	0	363

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 Generating Station

Period of Record: July - September 2017
Stability Class - Extremely Unstable - 375Ft-33Ft Delta-T (F)
Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
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 Generating Station

Period of Record: July - September 2017
Stability Class - Moderately Unstable - 375Ft-33Ft Delta-T (F)
Winds Measured at 375 Feet

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

LaSalle County Generating Station

Period of Record: July - September 2017
Stability Class - Slightly Unstable - 375Ft-33Ft Delta-T (F)
Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	0	3	7	0	0	10
NNE	0	0	0	2	0	0	2
NE	0	0	0	6	0	0	6
ENE	0	0	0	6	2	0	8
E	0	0	2	4	0	0	6
ESE	0	1	3	1	0	0	5
SE	0	1	5	1	0	0	7
SSE	0	0	3	0	0	0	3
S	0	1	8	1	2	0	12
SSW	0	1	9	6	0	0	16
SW	0	1	0	5	0	1	7
WSW	0	0	8	3	4	1	16
W	0	1	1	14	3	0	19
WNW	0	0	9	8	2	0	19
NW	0	0	1	12	4	0	17
NNW	0	0	0	2	2	0	4
Variable	0	0	0	0	0	0	0
Total	0	6	52	78	19	2	157

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 Generating Station

Period of Record: July - September 2017
Stability Class - Neutral - 375Ft-33Ft Delta-T (F)
Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	1	9	12	11	3	0	36
NNE	0	17	17	22	3	0	59
NE	0	12	15	28	4	0	59
ENE	2	11	26	27	15	0	81
E	3	19	22	5	1	0	50
ESE	1	18	15	1	0	0	35
SE	2	17	16	6	0	0	41
SSE	0	11	14	2	3	0	30
S	3	14	25	4	3	0	49
SSW	2	16	12	13	5	0	48
SW	4	15	16	13	5	2	55
WSW	0	15	20	13	4	0	52
W	0	28	11	14	9	1	63
WNW	2	18	14	27	10	2	73
NW	0	15	18	37	10	1	81
NNW	0	7	27	27	4	0	65
Variable	0	0	0	0	0	0	0
Total	20	242	280	250	79	6	877

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 Generating Station

Period of Record: July - September 2017
Stability Class - Slightly Stable - 375Ft-33Ft Delta-T (F)
Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	2	3	11	3	1	20
NNE	1	9	7	18	5	0	40
NE	2	9	14	25	16	0	66
ENE	0	2	18	29	8	0	57
E	0	8	18	20	12	0	58
ESE	0	3	9	14	1	0	27
SE	3	7	15	10	0	0	35
SSE	1	6	8	6	2	0	23
S	1	6	6	9	6	0	28
SSW	1	4	7	4	7	3	26
SW	2	6	11	13	11	6	49
WSW	2	5	7	10	20	3	47
W	0	5	4	25	11	0	45
WNW	0	4	10	7	4	1	26
NW	1	8	12	16	6	5	48
NNW	2	4	10	10	2	0	28
Variable	0	0	0	0	0	0	0
Total	16	88	159	227	114	19	623

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 Generating Station

Period of Record: July - September 2017
Stability Class - Moderately Stable - 375Ft-33Ft Delta-T (F)
Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	2	1	8	0	0	11
NNE	3	3	0	1	0	0	7
NE	0	4	7	3	2	0	16
ENE	0	3	2	2	0	0	7
E	0	2	4	1	4	0	11
ESE	0	2	14	12	10	0	38
SE	0	4	12	17	8	0	41
SSE	0	1	14	11	8	0	34
S	1	4	11	18	15	1	50
SSW	0	2	10	17	4	0	33
SW	0	2	7	10	9	2	30
WSW	0	5	9	16	4	0	34
W	0	6	12	8	8	0	34
WNW	0	2	7	10	3	0	22
NW	1	1	7	16	2	1	28
NNW	0	0	6	2	5	0	13
Variable	0	0	0	0	0	0	0
Total	5	43	123	152	82	4	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 Generating Station

Period of Record: July - September 2017
Stability Class - Extremely Stable - 375Ft-33Ft Delta-T (F)
Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	1	0	0	0	0	0	1
NNE	0	1	0	0	0	0	1
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	1	0	1
SE	0	0	2	6	5	0	13
SSE	0	0	3	16	7	0	26
S	0	0	3	9	3	1	16
SSW	0	2	6	14	4	0	26
SW	0	0	1	13	3	3	20
WSW	0	1	2	3	0	0	6
W	0	0	1	0	0	0	1
WNW	0	1	3	0	0	0	4
NW	0	2	1	0	0	0	3
NNW	0	1	1	0	0	0	2
Variable	0	0	0	0	0	0	0
Total	1	8	23	61	23	4	120

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 Generating Station

Period of Record: October - December 2017
Stability Class - Extremely Unstable - 200Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	1	2	0	0	3
S	0	0	5	6	0	0	11
SSW	0	0	0	4	0	0	4
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	6	12	2	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: 2

LaSalle County Generating Station

Period of Record: October - December 2017
Stability Class - Moderately Unstable - 200Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

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

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 Generating Station

Period of Record: October - December 2017
Stability Class - Slightly Unstable - 200Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	1	3	0	0	4
ENE	0	0	1	0	0	0	1
E	0	0	1	0	0	0	1
ESE	0	0	0	0	0	0	0
SE	0	0	1	1	0	0	2
SSE	0	1	1	3	0	0	5
S	0	1	1	4	0	0	6
SSW	0	1	2	0	1	0	4
SW	0	0	2	2	0	0	4
WSW	0	0	1	7	0	0	8
W	0	0	6	0	0	0	6
WNW	0	0	1	4	0	0	5
NW	0	0	1	2	0	0	3
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	3	19	26	1	0	49

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

LaSalle County Generating Station

Period of Record: October - December 2017
Stability Class - Neutral - 200Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	27	41	0	1	0	69
NNE	0	11	23	0	0	0	34
NE	0	9	24	6	1	0	40
ENE	0	4	19	8	0	0	31
E	0	4	9	1	0	0	14
ESE	0	8	11	6	0	0	25
SE	1	12	13	9	0	0	35
SSE	1	5	19	6	7	0	38
S	0	7	18	12	4	1	42
SSW	1	3	14	11	10	4	43
SW	1	13	16	12	9	1	52
WSW	0	9	23	20	8	0	60
W	2	18	30	43	11	4	108
WNW	1	19	20	76	9	1	126
NW	1	5	27	36	7	1	77
NNW	1	13	65	32	23	0	134
Variable	0	0	0	0	0	0	0
Total	9	167	372	278	90	12	928

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 Generating Station

Period of Record: October - December 2017
Stability Class - Slightly Stable - 200Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	2	11	12	3	0	0	28
NNE	3	9	17	1	0	0	30
NE	1	3	2	1	0	0	7
ENE	2	2	6	3	0	0	13
E	0	14	19	3	0	0	36
ESE	0	7	8	1	0	0	16
SE	1	9	11	3	0	0	24
SSE	2	11	27	12	1	0	53
S	2	6	29	28	8	1	74
SSW	2	10	25	16	19	4	76
SW	1	8	18	35	7	1	70
WSW	0	13	25	24	2	0	64
W	0	10	25	21	4	9	69
WNW	2	15	32	17	23	4	93
NW	1	8	29	5	0	0	43
NNW	0	12	12	4	4	0	32
Variable	0	0	0	0	0	0	0
Total	19	148	297	177	68	19	728

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 Generating Station

Period of Record: October - December 2017
Stability Class - Moderately Stable - 200Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	4	0	0	0	0	4
NNE	0	1	0	0	0	0	1
NE	2	0	0	0	0	0	2
ENE	3	0	0	0	0	0	3
E	2	5	5	0	0	0	12
ESE	2	5	0	0	0	0	7
SE	4	7	2	0	0	0	13
SSE	1	7	9	2	0	0	19
S	2	10	6	6	0	0	24
SSW	0	17	3	10	2	0	32
SW	0	10	12	12	1	0	35
WSW	2	10	14	10	0	0	36
W	1	12	6	3	0	0	22
WNW	0	11	18	1	0	0	30
NW	1	2	4	0	0	0	7
NNW	0	2	1	0	0	0	3
Variable	0	0	0	0	0	0	0
Total	20	103	80	44	3	0	250

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 Generating Station

Period of Record: October - December 2017
Stability Class - Extremely Stable - 200Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	1	0	0	0	0	1
NNE	0	0	0	0	0	0	0
NE	3	0	0	0	0	0	3
ENE	1	0	0	0	0	0	1
E	0	6	1	0	0	0	7
ESE	0	10	2	0	0	0	12
SE	1	24	2	0	0	0	27
SSE	3	18	5	0	0	0	26
S	2	10	9	0	0	0	21
SSW	0	10	29	1	0	0	40
SW	1	8	17	0	0	0	26
WSW	0	8	5	0	0	0	13
W	0	14	3	0	0	0	17
WNW	0	3	3	0	0	0	6
NW	0	1	0	0	0	0	1
NNW	1	6	0	0	0	0	7
Variable	0	0	0	0	0	0	0
Total	12	119	76	1	0	0	208

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 Generating Station

Period of Record: October - December 2017
Stability Class - Extremely Unstable - 375Ft-33Ft Delta-T (F)
Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
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 Generating Station

Period of Record: October - December 2017
Stability Class - Moderately Unstable - 375Ft-33Ft Delta-T (F)
Winds Measured at 375 Feet

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

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

LaSalle County Generating Station

Period of Record: October - December 2017
Stability Class - Slightly Unstable - 375Ft-33Ft Delta-T (F)
Winds Measured at 375 Feet

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

LaSalle County Generating Station

Period of Record: October - December 2017
Stability Class - Neutral - 375Ft-33Ft Delta-T (F)
Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	4	17	45	8	3	77
NNE	0	6	25	35	6	0	72
NE	0	4	8	26	12	4	54
ENE	0	6	8	25	5	4	48
E	1	4	16	7	1	0	29
ESE	0	3	8	4	2	1	18
SE	0	8	9	13	8	0	38
SSE	0	2	17	19	9	9	56
S	2	4	7	20	14	15	62
SSW	0	1	13	13	20	21	68
SW	0	5	19	14	23	17	78
WSW	0	6	15	19	31	11	82
W	0	7	22	23	33	27	112
WNW	0	6	17	25	68	41	157
NW	1	1	25	38	62	31	158
NNW	1	7	16	35	13	24	96
Variable	0	0	0	0	0	0	0
Total	5	74	242	361	315	208	1205

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 Generating Station

Period of Record: October - December 2017
Stability Class - Slightly Stable - 375Ft-33Ft Delta-T (F)
Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	1	4	1	2	4	0	12
NNE	0	5	3	9	0	0	17
NE	0	2	1	2	0	0	5
ENE	1	5	0	2	0	1	9
E	0	1	3	5	10	0	19
ESE	1	2	4	1	7	2	17
SE	0	4	8	2	3	0	17
SSE	0	2	1	13	19	9	44
S	0	2	11	15	25	46	99
SSW	2	1	7	18	12	39	79
SW	1	7	10	21	14	39	92
WSW	0	5	17	11	12	22	67
W	1	3	8	11	25	14	62
WNW	2	3	8	15	29	24	81
NW	2	4	4	15	15	4	44
NNW	2	1	4	12	13	0	32
Variable	0	0	0	0	0	0	0
Total	13	51	90	154	188	200	696

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 Generating Station

Period of Record: October - December 2017
Stability Class - Moderately Stable - 375Ft-33Ft Delta-T (F)
Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	1	3	4	0	0	0	8
NNE	0	0	4	0	1	0	5
NE	1	0	0	1	0	0	2
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	1	1	0	2	1	0	5
SE	0	1	3	5	1	0	10
SSE	0	1	1	7	5	4	18
S	2	2	4	8	7	4	27
SSW	0	0	3	7	10	7	27
SW	1	8	6	5	11	5	36
WSW	0	1	5	11	3	8	28
W	0	0	1	5	1	0	7
WNW	0	0	1	4	8	2	15
NW	0	0	1	2	5	1	9
NNW	0	1	0	1	0	0	2
Variable	0	0	0	0	0	0	0
Total	6	18	33	58	53	31	199

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 Generating Station

Period of Record: October - December 2017
Stability Class - Extremely Stable - 375Ft-33Ft Delta-T (F)
Winds Measured at 375 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	0	1	0	0	0	1
NNE	0	1	0	0	0	0	1
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	1	0	0	0	0	0	1
ESE	0	1	1	0	0	0	2
SE	0	1	2	2	2	4	11
SSE	2	0	0	1	0	3	6
S	1	0	0	2	3	0	6
SSW	0	1	0	5	5	0	11
SW	0	0	6	12	7	0	25
WSW	1	0	1	2	1	0	5
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	1	2	2	0	0	0	5
NNW	0	0	1	1	0	0	2
Variable	0	0	0	0	0	0	0
Total	6	6	14	25	18	7	76

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