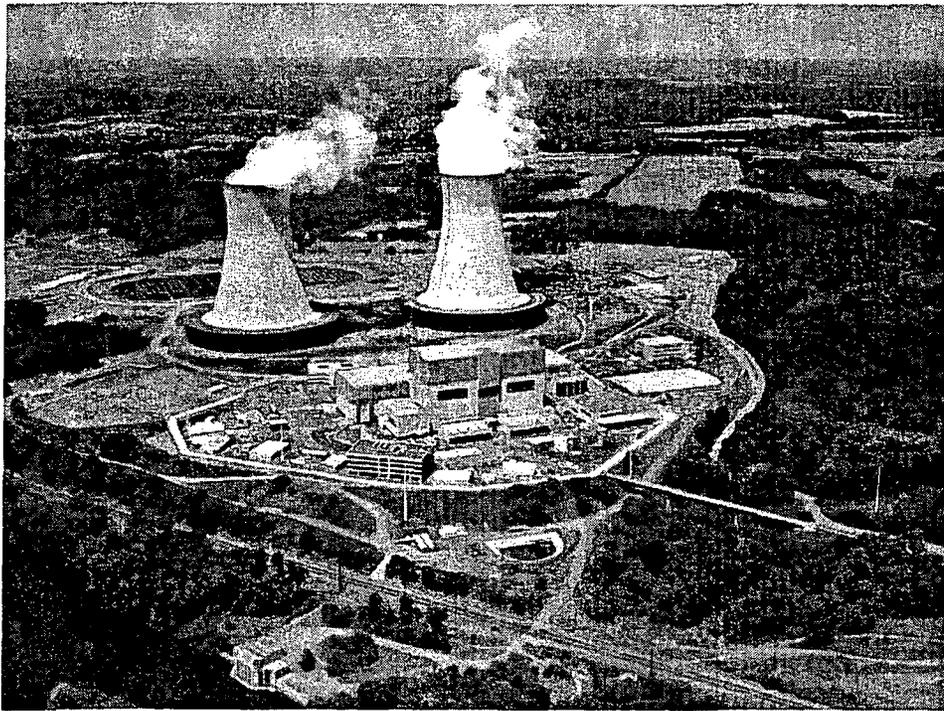


# Exelon

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Nuclear



Annual Radioactive Effluent Release Report  
No. 33

2007

Limerick Generating Station

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
LICENSEE: EXELON GENERATION COMPANY, LLC

**ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT**

**NO. 33**

**January 1, 2007 Through December 31, 2007**

**EXELON GENERATION COMPANY, LLC**

**LIMERICK GENERATING STATION  
UNITS NO. 1 AND 2**

**DOCKET NO. 50-352 (Unit 1)**

**DOCKET NO. 50-353 (Unit 2)**

**Submitted to  
The United States Nuclear Regulatory Commission  
Pursuant to  
Facility Operating License:**

**NPF-39 (Unit 1)  
NPF-85 (Unit 2)**

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1. Introduction

In accordance with the reporting requirements of Technical Specification 6.9.1.8 applicable during the reporting period, this report summarizes the effluent release data for Limerick Generating Station Units 1 and 2 for the period January 1, 2007 through December 31, 2007. This submittal complies with the format described in Regulatory Guide 1.21, "Measuring, Evaluating and Reporting Radioactivity in Solid Wastes and Releases of Radioactive Materials in Liquid and Gaseous Effluents from Light-Water Cooled Nuclear Power Plants", Revision 1, June, 1974.

Meteorological data was reported in the format specified in Regulatory Guide 1.23, Revision 1, "Meteorological Monitoring Programs For Nuclear Power Plants".

All vendor results were received and included in the report calculations. Therefore the 2007 report is complete.

2. Supplemental Information

A. Regulatory Limits

|  | Limit   | Units   | Receptor            | ODCM and 10 CFR 50, Appendix I Design Objective Limits |
|--|---|---------|---------------------|--|
| <b>1. Noble Gases:</b>   |   |         |                     |  |
| a.   | ≤ 500   | mrem/Yr | Total Body          | ODCM Control 3.2.2.1.a                                 |
|  | ≤ 3000  | mrem/Yr | Skin                |  |
| b.   | ≤ 10  | mRad    | Air Gamma           | Quarterly air dose limits<br>ODCM Control 3.2.2.2.a    |
|  | ≤ 20  | mRad    | Air Beta            |  |
| c.   | ≤ 20  | mRad    | Air Gamma           | Yearly air dose limits<br>ODCM Control 3.2.2.2.b       |
|  | ≤ 40  | mRad    | Air Beta            |  |
| d.   | ≤ 10  | mrem    | Total Body (Gamma)  | 10 CFR 50, Appendix I, Section II.B.2(b)               |
|  | ≤ 30  | mrem    | Skin (Beta)         |  |
| <b>2. Iodines, Tritium, Particulates with Half Life &gt; 8 days:</b> |   |         |                     |  |
| a.   | ≤ 1500  | mrem/Yr | Any Organ           | ODCM Control 3.2.2.1.b                                 |
| b.   | ≤ 15  | mrem    | Any Organ           | Quarterly dose limits<br>ODCM Control 3.2.2.3.a        |
| c.   | ≤ 30  | mrem    | Any Organ           | Yearly dose limits<br>ODCM Control 3.2.2.3.b           |
| <b>3. Liquid Effluents</b>   |   |         |                     |  |
| a.   | Concentration 10 CFR 20, Appendix B, Table 2 Col. 2 |         |                     | ODCM Control 3.2.1.1                                   |
| b.   | ≤ 3   | mrem    | Total Body          | Quarterly dose limits<br>ODCM Control 3.2.1.2.a        |
|  | ≤ 10  | mrem    | Any Organ           |  |
| c.   | ≤ 6   | mrem    | Total Body          | Yearly dose limits<br>ODCM Control 3.2.1.2.b           |
|  | ≤ 20  | mrem    | Any Organ           |  |
| <b>4. 40 CFR 190</b>   |   |         |                     |  |
|  | ≤ 25  | mrem    | Total Body or Organ | Yearly dose limits<br>ODCM Control 3.2.3               |
|  | ≤ 75  | mrem    | Thyroid             |  |

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**B. Effluent Concentration Limits:**

Gaseous dose rates rather than effluent concentrations are used to calculate permissible release rates for gaseous releases. The maximum permissible dose rates for gaseous releases are defined in ODCM Controls 3.2.2.2.a and 3.2.2.2.b.

The Effluent Concentration Limit (ECL) specified in 10 CFR 20, Appendix B, Table 2, Column 2 for identified nuclides, were used to calculate permissible release rates and concentrations for liquid release per the Limerick Offsite Dose Calculation Manual Control 3.2.1.1. The total activity concentration for all dissolved or entrained gases was limited to  $\leq 2E-04 \mu\text{Ci/ml}$ .

**C. Average Energy ( $\bar{E}$ ):**

The Limerick ODCM limits the instantaneous dose equivalent rates due to the release of noble gases to less than or equal to 500 mrem/year to the total body and less than or equal to 3000 mrem/year to the skin. The average beta and gamma energies ( $\bar{E}$ ) of the radionuclide mixture in releases of fission and activation gases as described in Regulatory Guide 1.21, "Measuring, Evaluation, and Reporting Radioactivity in Solid Wastes and Releases of Radioactive Materials in Liquid and Gaseous Effluents from Light-Water-Cooled Nuclear Power Plants," may be used to calculate doses in lieu of more sophisticated software. The Limerick radioactive effluent program employs the methodologies presented in U.S. NRC Regulatory Guide 1.109 "Calculation of Annual Doses to Man from Routine Releases of Reactor Effluents for the Purpose of Evaluating Compliance with 10 CFR Part 50, Appendix I," Revision 1, October 1977 and NUREG-0133, "Preparation of Radiological Effluent Technical Specifications for Nuclear Power Plants, October 1978. Therefore, average energies are not applicable to Limerick.

**D. Measurements and Approximations of Total Radioactivity:**

**1. Fission and Activation Gases**

The method used for Gamma Isotopic Analysis is the Canberra Gamma Spectroscopy System with a gas Marinelli beaker. Airborne effluent gaseous activity was continuously monitored and recorded in accordance with ODCM Table 4.2-2. Additional vent grab samples were taken from the North Stack, Unit 1 South Stack and Unit 2 South Stack and analyzed at least monthly to determine the isotopic mixture of noble gas activity released for the month. The data from the noble gas radiation monitor were analyzed to report net noble gas effluent activity. When no activity was found in the grab isotopic analysis, the isotopic mixture was assumed to be that evaluated in the UFSAR (Section 11.5, Table 11.5-4). If activity was found in the grab isotopic analysis, the isotopic mixture for the Noble Gas Monitor was determined from that isotopic mixture.

Each month a monitor background was determined at the time of the noble gas grab sample and used to determine net radiation monitor activity. When no isotopic activity was identified in the grab noble gas sample, the noble gas radiation monitor 15-minute average data for one-hour prior to and one-hour post noble gas grab sampling were used to determine monitor background for the month. The mean plus two standard deviations was used as background for each Noble Gas Monitor. When activity was identified the background determination was made from the last month that no activity was found.

2. Particulates and Iodines

The method used for Gamma Isotopic Analysis is the Canberra Gamma Spectroscopy System with a particulate filter (47 mm) or charcoal cartridge, respectively. Particulate and iodine activity was continuously sampled and analyzed in accordance with ODCM Table 4.2-2. Charcoal and particulate samples are taken from the North Stack, Unit 1 South Stack, Unit 2 South Stack and the Hot Maintenance Shop exhausts and analyzed at least weekly to determine the total activity released from the plant based on the highest vent flow rates recorded for the sampling period.

3. Liquid Effluents

Each batch of liquid effluent was sampled and analyzed for gamma isotopic activity in accordance with ODCM Table 4.2-1 prior to release. The total activity of each released batch was determined by multiplying each nuclide's concentration by the total volume discharged and then summing. The total activity released during a month was then determined by summing the activity content of all batch releases discharged during the month.

4. Tritium in Liquid and Gaseous Effluents:

Tritium in Liquid Effluents is analyzed using a Liquid Scintillation Counter.

Air from stack effluents was passed through two bubblers in series and an aliquot of the water from each bubbler was analyzed using a Liquid Scintillation Counter.

5. Composite Samples and Lower Limit of Detection (LLD)

Particulate air samples were composited quarterly and analyzed for gross alpha, Sr-89 and Sr-90. Liquid radwaste samples were composited monthly and quarterly and analyzed for gross alpha (monthly) and Fe-55, Sr-89 and Sr-90 (quarterly). These composites submitted to an offsite vendor laboratory for analysis. The ODCM required lower limit of detection for airborne and liquid releases are as follows:

| <b>Airborne:</b>   | <b>LLD</b>   |
|--|--------------|
| Gross Alpha  | 1E-11 uCi/cc |
| Sr-89, Sr-90   | 1E-11 uCi/cc |
| I-131  | 1E-12 uCi/cc |
| I-133  | 1E-10 uCi/cc |
| Principal Gamma Emitters (Mn-54, Fe-59, Co-58, Co-60, Zn-65, Mo-99, I-131, Cs-134, Cs-137, Ce-141, Ce-144) | 1E-11 uCi/cc |
| Noble Gas (Kr-87, Kr-88, Xe-133, Xe-133m, Xe-135, Xe-135m, Xe-138)   | 1E-04 uCi/cc |
| H-3  | 1E-06 uCi/cc |
| <b>Liquid:</b>   |              |
| Principal Gamma Emitters (Mn-54, Fe-59, Co-58, Co-60, Zn-65, Mo-99, Cs-134, Cs-137, Ce-141, Ce-144)        | 5E-07 uCi/ml |
| I-131  | 1E-06 uCi/ml |
| Entrained Gases (Kr-87, Kr-88, Xe-133, Xe-133m, Xe-135, Xe-135m, Xe-138)                                   | 1E-05 uCi/ml |
| H-3  | 1E-05 uCi/ml |
| Gross Alpha  | 1E-07 uCi/ml |

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|              |              |
|--------------|--------------|
| Sr-89, Sr-90 | 5E-08 uCi/ml |
| Fe-55        | 1E-06 uCi/ml |

6. Estimated Total Error Present

Procedure CY-AA-170-2100, Estimated Errors of Effluent Measurements, provides the methodology to obtain an overall estimate of the error associated with radioactive effluents.

E. Batch Releases:

1. Liquid

|   | Qtr 1    | Qtr 2    | Qtr 3    | Qtr 4    |
|---|----------|----------|----------|----------|
| Number of Batch Releases  | 6.00E+01 | 6.70E+01 | 3.70E+01 | 4.40E+01 |
| Total time period for batch releases (min)  | 4.95E+03 | 5.42E+03 | 2.85E+03 | 3.47E+03 |
| Maximum time period for batch release (min)   | 1.02E+02 | 1.01E+02 | 9.93E+01 | 9.95E+01 |
| Average time period for batch release (min)   | 8.25E+01 | 8.08E+01 | 7.70E+01 | 7.89E+01 |
| Minimum time period for batch release (min)   | 5.88E+01 | 3.90E+01 | 4.36E+01 | 2.91E+01 |
| Average stream flow (Schuylkill River) during periods of release of effluents into a flowing stream (gpm) | 1.62E+06 | 1.24E+06 | 2.39E+05 | 6.44E+05 |

2. Gaseous

| Oil Incineration                            |          |          |          |          |
|---|----------|----------|----------|----------|
|   | Qtr 1    | Qtr 2    | Qtr 3    | Qtr 4    |
| Number of Batch Releases                    | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Total time period for batch releases (min)  | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Maximum time period for batch release (min) | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Average time period for batch release (min) | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Minimum time period for batch release (min) | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

| Other Batch Releases                        |          |          |          |          |
|---|----------|----------|----------|----------|
|   | Qtr 1    | Qtr 2    | Qtr 3    | Qtr 4    |
| Number of Batch Releases                    | 0.00E+00 | 0.00E+00 | 1.40E+01 | 0.00E+00 |
| Total time period for batch releases (min)  | 0.00E+00 | 0.00E+00 | 7.65E+03 | 0.00E+00 |
| Maximum time period for batch release (min) | 0.00E+00 | 0.00E+00 | 2.00E+02 | 0.00E+00 |
| Average time period for batch release (min) | 0.00E+00 | 0.00E+00 | 5.46E+02 | 0.00E+00 |
| Minimum time period for batch release (min) | 0.00E+00 | 0.00E+00 | 3.30E+02 | 0.00E+00 |

F. Abnormal Releases:

|                              |          |          |          |          |
|------------------------------|----------|----------|----------|----------|
| <u>1. Liquid</u>             |          |          |          |          |
| Number of Releases           | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.00E+00 |
| Total Activity Released (Ci) | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.30E-04 |
| <u>2. Gaseous</u>            |          |          |          |          |
| Number of Releases           | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Total Activity Released (Ci) | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

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Tritium was discovered in the "C" aux boiler on 11/17/2007 (IR 700944). Activity found was 4030 pCi/L. Subsequent sampling of the RWST and the telltale indicator for the guard pipe from the condensate return line of the steam heat to the circulating water pump house (gooseneck) showed positive tritium, as well. The gooseneck was discharging directly to the ground, which resulted in a notification to the PA DEP per the Exelon radiological groundwater protection program procedure. Total time that tritiated water was being discharged to the ground was 3 days. On 11/20/2007 the discharge from the gooseneck was redirected to a drain that goes through the oil interceptors, oily waste separators, hold pond and then to radwaste discharge line to outfall 001.

The release rate was determined by operations as 11 liters/minute. Total volume released to the ground was calculated as 47423 liters for the three days of discharge. The highest activity observed during that time period was 4850 pCi/L. Based upon this information a total of 2.3E+08 pCi were discharged to the ground. There is no drinking water pathway that could become contaminated from this release.

G. Revisions to the ODCM

Revision 23 of CY-LG-170-301, Offsite Dose Calculation Manual was approved on August 28, 2007. A complete copy is included in the mailing.

H. Radiation Effluent Monitors Out of Service More Than 30 Days

Per ODCM Control 3.1.1, "Radioactive Liquid Effluent Monitoring Instrumentation" and Control 3.1.2 "Radioactive Gaseous Effluent Monitoring Instrumentation", instrumentation requires:

With less than the minimum number of radioactive gaseous effluent monitoring instrumentation channels OPERABLE, take the ACTION shown in Table 3.1-1 (liquids) or and Table 3.1-2 (gas). Restore the inoperable instrumentation to OPERABLE status within the time specified in the ACTION or explain in the next Annual Radioactive Effluent Release Report why this inoperability was not corrected within the time specified. The following is a discussion of instrumentation out of service for greater than 30 days:

Unit 1 Service Water radiation monitor was out of service from 11/16/2007 to 12/18/2007 due to low flow. The investigation found some carbon steel valves had become corroded, which resulted in nearly 100 percent blockage of flow in the sample line. Valves were replaced with stainless steel and flow returned to acceptable levels. Instrumentation returned to service.

I. Compliance to 40 CFR 190 Limits

The radioactive material released during this reporting period and the doses listed in this report were within the limits of the ODCM and 40 CFR 190. A detailed analysis of doses to Members of the Public is presented in Appendix C, Radiological Impact to Man.

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**Appendix A**  
**Effluent and Waste Disposal Summary**

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TABLE A -1 GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES

PERIOD 2007

A. FISSION AND ACTIVATION GASSES

|                                    | Units   | Qtr 1    | Qtr 2    | Qtr 3    | Qtr 4    | Est. Total Error % |
|------------------------------------|---------|----------|----------|----------|----------|--------------------|
| 1. Total Release                   | Ci      | 6.56E+00 | 2.45E+01 | 8.96E+00 | 8.62E+00 | 3.66E+01           |
| 2. Average Release Rate for Period | uCi/sec | 8.32E-01 | 3.11E+00 | 1.14E+00 | 1.10E+00 |                    |
| 3. Dose                            |         |          |          |          |          |                    |
| - Gamma Air Dose                   | mrad    | 6.92E-03 | 2.62E-02 | 9.09E-03 | 1.03E-02 |                    |
| - Beta Air Dose                    | mrad    | 2.95E-03 | 1.61E-02 | 5.63E-03 | 6.26E-03 |                    |
| 4. Percent of ODCM Limit           |         |          |          |          |          |                    |
| - Gamma Air Dose                   | %       | 6.92E-02 | 2.62E-01 | 9.09E-02 | 1.03E-01 |                    |
| - Beta Air Dose                    | %       | 1.48E-02 | 8.05E-01 | 2.82E-02 | 3.13E-02 |                    |

B. IODINES

|                                    | Units   | Qtr 1    | Qtr 2 | Qtr 3 | Qtr 4 | Est. Total Error % |
|------------------------------------|---------|----------|-------|-------|-------|--------------------|
| 1. Total – I-131                   | Ci      | 5.52E-05 | < LLD | < LLD | < LLD | 2.04E+01           |
| 2. Average Release Rate for Period | uCi/sec | 7.01E-06 | < LLD | < LLD | < LLD |                    |
| 3. Percent of ODCM Limit           | %       | *        | *     | *     | *     |                    |

C. PARTICULATES

|                                     | Units   | Qtr 1 | Qtr 2 | Qtr 3    | Qtr 4 | Est. Total Error % |
|-------------------------------------|---------|-------|-------|----------|-------|--------------------|
| 1. Particulates with T 1/2 > 8 days | Ci      | < LLD | < LLD | 8.60E-05 | < LLD | 2.26E+01           |
| 2. Average Release Rate for Period  | uCi/sec | < LLD | < LLD | 1.09E-05 | < LLD |                    |
| 3. Percent of ODCM Limit            | %       | *     | *     | *        | *     |                    |
| 4. Gross Alpha Radioactivity        | Ci      | <LLD  | <LLD  | <LLD     | <LLD  |                    |

D. TRITIUM

|                                    | Units   | Qtr 1 | Qtr 2 | Qtr 3    | Qtr 4    | Est. Total Error % |
|------------------------------------|---------|-------|-------|----------|----------|--------------------|
| 1. Total Release                   | Ci      | < LLD | < LLD | 1.74E+00 | 4.82E+00 | 1.57E+01           |
| 2. Average Release Rate for Period | uCi/sec | < LLD | < LLD | 2.21E-01 | 6.13E-01 |                    |
| 3. Percent of ODCM Limit           | %       | *     | *     | *        | *        |                    |

E. Iodine 131 & 133, Tritium & Particulate

|                          | Units | Qtr 1    | Qtr 2    | Qtr 3    | Qtr 4    |
|--------------------------|-------|----------|----------|----------|----------|
| 1. Organ Dose            | mrem  | 9.86E-03 | 0.00E+00 | 5.11E-03 | 2.14E-03 |
| 2. Percent of ODCM Limit | %     | 6.57E-02 | 0.00E+00 | 3.41E-02 | 1.43E-02 |

\* ODCM Limit is for combined iodine, tritium and particulate only, which is shown in Item E.

TABLE A - 2 GASEOUS EFFLUENTS FOR RELEASE POINT – NORTH STACK

PERIOD 2007

1. FISSION AND ACTIVATION GASSES

| Nuclide Released | Continuous Mode |          |          |          |          |
|------------------|-----------------|----------|----------|----------|----------|
|                  | Units           | Qtr 1    | Qtr 2    | Qtr 3    | Qtr 4    |
| KR-85            | Ci              | 1.37E-02 | 1.55E-01 | 1.83E-02 | 1.36E-01 |
| KR-85M           | Ci              | 3.62E-03 | 4.10E-02 | 4.83E-03 | 3.60E-02 |
| KR-87            | Ci              | 6.35E-03 | 7.20E-02 | 8.47E-03 | 6.31E-02 |
| KR-88            | Ci              | 1.12E-02 | 1.27E-01 | 1.50E-02 | 1.12E-01 |
| XE-131M          | Ci              | 3.43E-04 | 3.88E-03 | 4.57E-04 | 3.41E-03 |
| XE-133           | Ci              | 3.11E-01 | 1.45E-02 | 1.70E-03 | 1.27E-02 |
| XE-133M          | Ci              | < LLD    | < LLD    | < LLD    | < LLD    |
| XE-135           | Ci              | 2.12E-01 | 5.67E-01 | 6.67E-02 | 4.97E-01 |
| XE-135M          | Ci              | 3.23E+00 | 3.61E-01 | 4.25E-02 | 3.17E-01 |
| XE-138           | Ci              | 6.83E-02 | 7.74E-01 | 9.11E-02 | 6.79E-01 |
| Total for Period | Ci              | 3.85E+00 | 2.12E+00 | 2.49E-01 | 1.86E+00 |

2. IODINES

| Nuclide Released | Continuous Mode |          |       |       |       |
|------------------|-----------------|----------|-------|-------|-------|
|                  | Units           | Qtr 1    | Qtr 2 | Qtr 3 | Qtr 4 |
| I-131            | Ci              | 5.44E-05 | < LLD | < LLD | < LLD |
| I-133            | Ci              | < LLD    | < LLD | < LLD | < LLD |
| Total for Period | Ci              | 5.44E-05 | < LLD | < LLD | < LLD |

3. PARTICULATES (T 1/2 > 8 DAYS)

| Nuclide Released | Continuous Mode |       |       |       |       |
|------------------|-----------------|-------|-------|-------|-------|
|                  | Units           | Qtr 1 | Qtr 2 | Qtr 3 | Qtr 4 |
| MN-54            | Ci              | < LLD | < LLD | < LLD | < LLD |
| FE-59            | Ci              | < LLD | < LLD | < LLD | < LLD |
| CO-58            | Ci              | < LLD | < LLD | < LLD | < LLD |
| CO-60            | Ci              | < LLD | < LLD | < LLD | < LLD |
| ZN-65            | Ci              | < LLD | < LLD | < LLD | < LLD |
| SR-89            | Ci              | < LLD | < LLD | < LLD | < LLD |
| SR-90            | Ci              | < LLD | < LLD | < LLD | < LLD |
| ZR-95            | Ci              | < LLD | < LLD | < LLD | < LLD |
| NB-95            | Ci              | < LLD | < LLD | < LLD | < LLD |
| MO-99            | Ci              | < LLD | < LLD | < LLD | < LLD |
| CS-134           | Ci              | < LLD | < LLD | < LLD | < LLD |
| CS-137           | Ci              | < LLD | < LLD | < LLD | < LLD |
| CE-141           | Ci              | < LLD | < LLD | < LLD | < LLD |
| CE-144           | Ci              | < LLD | < LLD | < LLD | < LLD |
| Total for Period | Ci              | <LLD  | <LLD  | <LLD  | <LLD  |

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TABLE A - 3 GASEOUS EFFLUENTS FOR RELEASE POINT – UNIT 1 SOUTH STACK PERIOD 2007

1. FISSION AND ACTIVATION GASSES

| Nuclide Released | Continuous Mode |          |          |          |          |
|------------------|-----------------|----------|----------|----------|----------|
|                  | Units           | Qtr 1    | Qtr 2    | Qtr 3    | Qtr 4    |
| AR-41            | Ci              | 1.36E-01 | 1.61E+00 | 6.13E-01 | 1.95E-01 |
| KR-85M           | Ci              | 3.27E-02 | 3.86E-01 | 1.47E-01 | 4.66E-02 |
| KR-87            | Ci              | 3.27E-02 | 3.86E-01 | 1.47E-01 | 4.66E-02 |
| KR-88            | Ci              | 3.27E-02 | 3.86E-01 | 1.47E-01 | 4.66E-02 |
| XE-133           | Ci              | 7.08E-01 | 8.37E+00 | 3.18E+00 | 1.01E+00 |
| XE-133M          | Ci              | < LLD    | < LLD    | < LLD    | < LLD    |
| XE-135           | Ci              | 3.70E-01 | 4.38E+00 | 1.66E+00 | 5.29E-01 |
| XE-135M          | Ci              | 5.01E-01 | 5.92E+00 | 2.25E+00 | 7.16E-01 |
| XE-138           | Ci              | 7.63E-02 | 9.02E-01 | 3.43E-01 | 1.09E-01 |
| Total for Period | Ci              | 1.89E+00 | 2.23E+01 | 8.49E+00 | 2.70E+00 |

2. IODINES

| Nuclide Released | Continuous Mode |       |       |       |       |
|------------------|-----------------|-------|-------|-------|-------|
|                  | Units           | Qtr 1 | Qtr 2 | Qtr 3 | Qtr 4 |
| I-131            | Ci              | < LLD | < LLD | < LLD | < LLD |
| I-133            | Ci              | < LLD | < LLD | < LLD | < LLD |
| Total for Period | Ci              | <LLD  | <LLD  | <LLD  | <LLD  |

3. PARTICULATES (T 1/2 > 8 DAYS)

| Nuclide Released | Continuous Mode |       |       |       |       |
|------------------|-----------------|-------|-------|-------|-------|
|                  | Units           | Qtr 1 | Qtr 2 | Qtr 3 | Qtr 4 |
| MN-54            | Ci              | < LLD | < LLD | < LLD | < LLD |
| FE-59            | Ci              | < LLD | < LLD | < LLD | < LLD |
| CO-58            | Ci              | < LLD | < LLD | < LLD | < LLD |
| CO-60            | Ci              | < LLD | < LLD | < LLD | < LLD |
| ZN-65            | Ci              | < LLD | < LLD | < LLD | < LLD |
| SR-89            | Ci              | < LLD | < LLD | < LLD | < LLD |
| SR-90            | Ci              | < LLD | < LLD | < LLD | < LLD |
| ZR-95            | Ci              | < LLD | < LLD | < LLD | < LLD |
| NB-95            | Ci              | < LLD | < LLD | < LLD | < LLD |
| MO-99            | Ci              | < LLD | < LLD | < LLD | < LLD |
| CS-134           | Ci              | < LLD | < LLD | < LLD | < LLD |
| CS-137           | Ci              | < LLD | < LLD | < LLD | < LLD |
| CE-141           | Ci              | < LLD | < LLD | < LLD | < LLD |
| CE-144           | Ci              | < LLD | < LLD | < LLD | < LLD |
| Total for Period | Ci              | < LLD | < LLD | < LLD | < LLD |

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

TABLE A - 4 GASEOUS EFFLUENTS FOR RELEASE POINT – UNIT 2 SOUTH STACK PERIOD 2007

1. FISSION AND ACTIVATION GASSES

| Nuclide Released | Continuous Mode |          |          |          |          |
|------------------|-----------------|----------|----------|----------|----------|
|                  | Units           | Qtr 1    | Qtr 2    | Qtr 3    | Qtr 4    |
| AR-41            | Ci              | 5.86E-02 | 5.65E-04 | 1.54E-02 | 2.94E-01 |
| KR-85M           | Ci              | 1.40E-02 | 1.35E-04 | 3.68E-03 | 7.03E-02 |
| KR-87            | Ci              | 1.40E-02 | 1.35E-04 | 3.68E-03 | 7.03E-02 |
| KR-88            | Ci              | 1.40E-02 | 1.35E-04 | 3.68E-03 | 7.03E-02 |
| XE-133           | Ci              | 3.05E-01 | 2.93E-03 | 7.98E-02 | 1.52E+00 |
| XE-133M          | Ci              | < LLD    | < LLD    | < LLD    | < LLD    |
| XE-135           | Ci              | 1.59E-01 | 1.53E-03 | 4.18E-02 | 7.97E-01 |
| XE-135M          | Ci              | 2.16E-01 | 2.08E-03 | 5.65E-02 | 1.08E+00 |
| XE-138           | Ci              | 3.28E-02 | 3.16E-04 | 8.61E-03 | 1.64E-01 |
| Total for Period | Ci              | 8.13E-01 | 7.83E-03 | 2.13E-01 | 4.07E+00 |

2. IODINES

| Nuclide Released | Continuous Mode |       |       |       |       |
|------------------|-----------------|-------|-------|-------|-------|
|                  | Units           | Qtr 1 | Qtr 2 | Qtr 3 | Qtr 4 |
| I-131            | Ci              | < LLD | < LLD | < LLD | < LLD |
| I-133            | Ci              | < LLD | < LLD | < LLD | < LLD |
| Total for Period | Ci              | <LLD  | <LLD  | <LLD  | <LLD  |

3. PARTICULATES (T 1/2 > 8 DAYS)

| Nuclide Released | Continuous Mode |       |       |       |       |
|------------------|-----------------|-------|-------|-------|-------|
|                  | Units           | Qtr 1 | Qtr 2 | Qtr 3 | Qtr 4 |
| MN-54            | Ci              | < LLD | < LLD | < LLD | < LLD |
| FE-59            | Ci              | < LLD | < LLD | < LLD | < LLD |
| CO-58            | Ci              | < LLD | < LLD | < LLD | < LLD |
| CO-60            | Ci              | < LLD | < LLD | < LLD | < LLD |
| ZN-65            | Ci              | < LLD | < LLD | < LLD | < LLD |
| SR-89            | Ci              | < LLD | < LLD | < LLD | < LLD |
| SR-90            | Ci              | < LLD | < LLD | < LLD | < LLD |
| ZR-95            | Ci              | < LLD | < LLD | < LLD | < LLD |
| NB-95            | Ci              | < LLD | < LLD | < LLD | < LLD |
| MO-99            | Ci              | < LLD | < LLD | < LLD | < LLD |
| CS-134           | Ci              | < LLD | < LLD | < LLD | < LLD |
| CS-137           | Ci              | < LLD | < LLD | < LLD | < LLD |
| CE-141           | Ci              | < LLD | < LLD | < LLD | < LLD |
| CE-144           | Ci              | < LLD | < LLD | < LLD | < LLD |
| Total for Period | Ci              | < LLD | < LLD | < LLD | < LLD |

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

TABLE A - 5 GASEOUS EFFLUENTS FOR RELEASE POINT – HOT MAINTENANCE SHOP PERIOD 2007

1. FISSION AND ACTIVATION GASSES

NO ANALYSIS PERFORMED FOR ACTIVATION GASSES. PATHWAY DOES NOT EXIST.

2. IODINES

| Nuclide Released | Continuous Mode |          |       |       |       |
|------------------|-----------------|----------|-------|-------|-------|
|                  | Units           | Qtr 1    | Qtr 2 | Qtr 3 | Qtr 4 |
| I-131            | Ci              | 8.30E-07 | < LLD | < LLD | < LLD |
| I-133            | Ci              | < LLD    | < LLD | < LLD | < LLD |
| Total for Period | Ci              | 8.30E-07 | < LLD | < LLD | < LLD |

3. PARTICULATES (T 1/2 > 8 DAYS)

| Nuclide Released | Continuous Mode |       |       |       |       |
|------------------|-----------------|-------|-------|-------|-------|
|                  | Units           | Qtr 1 | Qtr 2 | Qtr 3 | Qtr 4 |
| MN-54            | Ci              | < LLD | < LLD | < LLD | < LLD |
| FE-59            | Ci              | < LLD | < LLD | < LLD | < LLD |
| CO-58            | Ci              | < LLD | < LLD | < LLD | < LLD |
| CO-60            | Ci              | < LLD | < LLD | < LLD | < LLD |
| ZN-65            | Ci              | < LLD | < LLD | < LLD | < LLD |
| SR-89            | Ci              | < LLD | < LLD | < LLD | < LLD |
| SR-90            | Ci              | < LLD | < LLD | < LLD | < LLD |
| ZR-95            | Ci              | < LLD | < LLD | < LLD | < LLD |
| NB-95            | Ci              | < LLD | < LLD | < LLD | < LLD |
| MO-99            | Ci              | < LLD | < LLD | < LLD | < LLD |
| CS-134           | Ci              | < LLD | < LLD | < LLD | < LLD |
| CS-137           | Ci              | < LLD | < LLD | < LLD | < LLD |
| CE-141           | Ci              | < LLD | < LLD | < LLD | < LLD |
| CE-144           | Ci              | < LLD | < LLD | < LLD | < LLD |
| Total for Period | Ci              | <LLD  | <LLD  | <LLD  | <LLD  |

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

TABLE A - 6 GASEOUS EFFLUENTS FOR RELEASE POINT – OIL INCINERATION PERIOD 2007

NO OIL BURNING OCCURRED IN 2007.

1. FISSION AND ACTIVATION GASSES

NO ANALYSIS PERFORMED FOR ACTIVATION GASSES. PATHWAY DOES NOT EXIST.

2. IODINES

| Nuclide Released | Batch Release |       |       |       |       |
|------------------|---------------|-------|-------|-------|-------|
|                  | Units         | Qtr 1 | Qtr 2 | Qtr 3 | Qtr 4 |
| I-131            | Ci            | N/A   | N/A   | N/A   | N/A   |
| I-133            | Ci            | N/A   | N/A   | N/A   | N/A   |
| Total for Period | Ci            | N/A   | N/A   | N/A   | N/A   |

3. PARTICULATES (T 1/2 > 8 DAYS)

| Nuclide Released | Batch Release |       |       |       |       |
|------------------|---------------|-------|-------|-------|-------|
|                  | Units         | Qtr 1 | Qtr 2 | Qtr 3 | Qtr 4 |
| MN-54            | Ci            | N/A   | N/A   | N/A   | N/A   |
| FE-55            | Ci            | N/A   | N/A   | N/A   | N/A   |
| FE-59            | Ci            | N/A   | N/A   | N/A   | N/A   |
| CO-58            | Ci            | N/A   | N/A   | N/A   | N/A   |
| CO-60            | Ci            | N/A   | N/A   | N/A   | N/A   |
| ZN-65            | Ci            | N/A   | N/A   | N/A   | N/A   |
| SR-89            | Ci            | N/A   | N/A   | N/A   | N/A   |
| SR-90            | Ci            | N/A   | N/A   | N/A   | N/A   |
| ZR-95            | Ci            | N/A   | N/A   | N/A   | N/A   |
| NB-95            | Ci            | N/A   | N/A   | N/A   | N/A   |
| MO-99            | Ci            | N/A   | N/A   | N/A   | N/A   |
| CS-134           | Ci            | N/A   | N/A   | N/A   | N/A   |
| CS-137           | Ci            | N/A   | N/A   | N/A   | N/A   |
| CE-141           | Ci            | N/A   | N/A   | N/A   | N/A   |
| CE-144           | Ci            | N/A   | N/A   | N/A   | N/A   |
| Total for Period | Ci            | N/A   | N/A   | N/A   | N/A   |

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

TABLE A -7 GASEOUS EFFLUENTS FOR RELEASE POINT – OTHER BATCH RELEASES PERIOD 2007

1. FISSION AND ACTIVATION GASSES

| Nuclide Released | Batch Release |       |       |       |       |
|------------------|---------------|-------|-------|-------|-------|
|                  | Units         | Qtr 1 | Qtr 2 | Qtr 3 | Qtr 4 |
| KR-87            | Ci            | < LLD | < LLD | < LLD | < LLD |
| KR-88            | Ci            | < LLD | < LLD | < LLD | < LLD |
| XE-133           | Ci            | < LLD | < LLD | < LLD | < LLD |
| XE-133M          | Ci            | < LLD | < LLD | < LLD | < LLD |
| XE-135           | Ci            | < LLD | < LLD | < LLD | < LLD |
| XE-135M          | Ci            | < LLD | < LLD | < LLD | < LLD |
| XE-138           | Ci            | < LLD | < LLD | < LLD | < LLD |
| Total for Period | Ci            | < LLD | < LLD | < LLD | < LLD |

2. IODINES

| Nuclide Released | Batch Release |       |       |       |       |
|------------------|---------------|-------|-------|-------|-------|
|                  | Units         | Qtr 1 | Qtr 2 | Qtr 3 | Qtr 4 |
| I-131            | Ci            | < LLD | < LLD | < LLD | < LLD |
| I-133            | Ci            | < LLD | < LLD | < LLD | < LLD |
| Total for Period | Ci            | < LLD | < LLD | < LLD | < LLD |

3. PARTICULATES (T 1/2 > 8 DAYS)

| Nuclide Released | Batch Release |       |       |          |       |
|------------------|---------------|-------|-------|----------|-------|
|                  | Units         | Qtr 1 | Qtr 2 | Qtr 3    | Qtr 4 |
| MN-54            | Ci            | < LLD | < LLD | 1.90E-05 | < LLD |
| FE-59            | Ci            | < LLD | < LLD | < LLD    | < LLD |
| CO-58            | Ci            | < LLD | < LLD | < LLD    | < LLD |
| CO-60            | Ci            | < LLD | < LLD | 6.47E-05 | < LLD |
| ZN-65            | Ci            | < LLD | < LLD | 2.29E-06 | < LLD |
| ZR-95            | Ci            | < LLD | < LLD | < LLD    | < LLD |
| NB-95            | Ci            | < LLD | < LLD | < LLD    | < LLD |
| MO-99            | Ci            | < LLD | < LLD | < LLD    | < LLD |
| CS-134           | Ci            | < LLD | < LLD | < LLD    | < LLD |
| CS-137           | Ci            | < LLD | < LLD | < LLD    | < LLD |
| CE-141           | Ci            | < LLD | < LLD | < LLD    | < LLD |
| CE-144           | Ci            | < LLD | < LLD | < LLD    | < LLD |
| Total for Period | Ci            | < LLD | < LLD | 8.60E-05 | < LLD |

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

TABLE A - 8 LIQUID EFFLUENTS – SUMMATION OF ALL RELEASES

PERIOD 2007

A. FISSION AND ACTIVATION PRODUCTS

|  | Units  | Qtr 1    | Qtr 2    | Qtr 3    | Qtr 4    | Est. Total Error % |
|--|--------|----------|----------|----------|----------|--------------------|
| 1. Total release (not including tritium, gasses & alpha)               | Ci     | 2.42E-03 | 1.55E-03 | 6.70E-04 | 2.47E-03 | 2.11E+01           |
| 2. Average diluted concentration during batch discharge for the period | uCi/ml | 2.06E-08 | 1.28E-08 | 1.01E-08 | 3.01E-08 |                    |
| 3. Dose - Whole Body   | mrem   | 6.00E-04 | 1.35E-03 | 1.67E-03 | 1.65E-03 |                    |
| - Organ  | mrem   | 7.33E-04 | 1.93E-03 | 1.70E-03 | 2.15E-03 |                    |
| 4. % of ODCM Limit - Whole Body Dose*                                  | %      | 2.00E-02 | 4.50E-02 | 5.57E-02 | 5.50E-02 |                    |
| - Organ Dose*  | %      | 7.33E-03 | 1.93E-02 | 1.70E-02 | 2.15E-02 |                    |

B. TRITIUM

|  | Units  | Qtr 1    | Qtr 2    | Qtr 3    | Qtr 4    | Est. Total Error % |
|--|--------|----------|----------|----------|----------|--------------------|
| 1. Total Release   | Ci     | 1.43E+01 | 1.22E+01 | 8.85E+00 | 1.19E+01 | 6.43E+00           |
| 2. Average diluted concentration during batch discharge for the period | uCi/ml | 1.22E-04 | 1.01E-04 | 1.33E-04 | 1.45E-04 |                    |
| 3. % of ODCM Limit - ECL   | %      | 1.22E+00 | 1.01E+00 | 1.33E+00 | 1.45E+00 |                    |

C. DISSOLVED AND ENTRAINED GASSES

|  | Units  | Qtr 1    | Qtr 2    | Qtr 3    | Qtr 4    | Est. Total Error % |
|--|--------|----------|----------|----------|----------|--------------------|
| 1. Total release   | Ci     | 3.52E-04 | 4.78E-04 | 1.15E-04 | 9.89E-05 | 2.11E+01           |
| 2. Average diluted concentration during batch discharge for the period | uCi/ml | 3.00E-09 | 3.93E-09 | 1.73E-09 | 1.20E-09 |                    |
| 3. %of ODCM Limit - ECL  | %      | 1.50E-03 | 1.97E-03 | 8.65E-04 | 6.00E-04 |                    |

D. GROSS ALPHA RADIOACTIVITY

|  | Units  | Qtr 1 | Qtr 2 | Qtr 3 | Qtr 4 | Est. Total Error % |
|--|--------|-------|-------|-------|-------|--------------------|
| 1. Total release   | Ci     | < LLD | < LLD | < LLD | < LLD | 2.30E+01           |
| 2. Average diluted concentration during batch discharge for the period | uCi/ml | < LLD | < LLD | < LLD | < LLD |                    |

|   | Units  | Qtr 1    | Qtr 2    | Qtr 3    | Qtr 4    | Est. Total Error % |
|---|--------|----------|----------|----------|----------|--------------------|
| E. Volume of waste released (prior to dilution) | Liters | 3.71E+06 | 4.16E+06 | 2.17E+06 | 2.55E+06 | 5.00E+00           |

|  |        |          |          |          |          |          |
|--|--------|----------|----------|----------|----------|----------|
| F. Volume of dilution water used during period | Liters | 1.14E+08 | 1.17E+08 | 6.44E+07 | 7.96E+07 | 3.56E+00 |
|--|--------|----------|----------|----------|----------|----------|

\* Percent of limit includes tritium.

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

TABLE A - 9 LIQUID EFFLUENTS FOR RELEASE POINT – LIQUID RADWASTE

PERIOD 2007

| Nuclide Released | Batch Release |          |          |          |          |
|------------------|---------------|----------|----------|----------|----------|
|                  | Units         | Qtr 1    | Qtr 2    | Qtr 3    | Qtr 4    |
| NA-24            | Ci            | 7.46E-06 | 9.98E-06 | 3.60E-06 | 5.94E-06 |
| CR-51            | Ci            | 3.20E-04 | 1.38E-04 | < LLD    | < LLD    |
| MN-54            | Ci            | 4.41E-04 | 3.07E-04 | 1.52E-04 | 6.15E-04 |
| FE-55            | Ci            | < LLD    | < LLD    | < LLD    | < LLD    |
| CO-58            | Ci            | 7.88E-05 | 4.26E-05 | 1.73E-05 | 7.76E-06 |
| FE-59            | Ci            | 4.75E-05 | 1.49E-05 | < LLD    | < LLD    |
| CO-60            | Ci            | 1.25E-03 | 6.48E-04 | 4.02E-04 | 1.24E-03 |
| ZN-65            | Ci            | 2.06E-04 | 1.02E-04 | 5.17E-05 | 3.96E-04 |
| ZN-69M           | Ci            | 6.71E-06 | 1.54E-06 | < LLD    | < LLD    |
| ZN-69            | Ci            | < LLD    | < LLD    | < LLD    | 1.05E-04 |
| SR-89            | Ci            | < LLD    | < LLD    | < LLD    | < LLD    |
| SR-90            | Ci            | < LLD    | < LLD    | < LLD    | < LLD    |
| Y-92             | Ci            | < LLD    | < LLD    | < LLD    | 6.62E-05 |
| ZR-95            | Ci            | < LLD    | 1.62E-06 | < LLD    | < LLD    |
| MO-99            | Ci            | < LLD    | < LLD    | < LLD    | < LLD    |
| TC-99M           | Ci            | 1.38E-06 | < LLD    | < LLD    | 6.69E-06 |
| TC-101           | Ci            | < LLD    | < LLD    | 4.34E-07 | < LLD    |
| SB-124           | Ci            | < LLD    | 8.07E-06 | < LLD    | < LLD    |
| SB-125           | Ci            | 1.99E-06 | 1.30E-06 | 1.86E-05 | < LLD    |
| I-131            | Ci            | 7.48E-07 | 1.44E-06 | < LLD    | < LLD    |
| CS-134           | Ci            | 5.23E-07 | 8.19E-06 | < LLD    | < LLD    |
| I-135            | Ci            | 1.86E-06 | < LLD    | < LLD    | < LLD    |
| CS-137           | Ci            | 4.69E-05 | 2.59E-04 | 2.07E-05 | 5.35E-05 |
| BA-139           | Ci            | < LLD    | < LLD    | 5.37E-07 | < LLD    |
| LA-140           | Ci            | 1.48E-06 | < LLD    | < LLD    | 1.23E-05 |
| CE-141           | Ci            | < LLD    | < LLD    | < LLD    | 1.59E-05 |
| CE-144           | Ci            | < LLD    | < LLD    | < LLD    | 7.39E-06 |
| ND-147           | Ci            | 7.86E-06 | 9.48E-06 | 4.52E-06 | 1.68E-06 |
|                  |               |          |          |          |          |
| Total for Period | Ci            | 2.42E-03 | 1.55E-03 | 6.71E-04 | 2.53E-03 |
|                  |               |          |          |          |          |
| KR-85M           | Ci            | < LLD    | 6.65E-07 | < LLD    | < LLD    |
| KR-87            | Ci            | < LLD    | < LLD    | < LLD    | < LLD    |
| KR-88            | Ci            | < LLD    | 2.76E-06 | < LLD    | < LLD    |
| XE-131M          | Ci            | 1.63E-05 | < LLD    | < LLD    | < LLD    |
| XE-133M          | Ci            | 1.31E-05 | 4.60E-06 | < LLD    | < LLD    |
| XE-133           | Ci            | 2.36E-04 | 2.28E-04 | 5.30E-05 | 3.76E-05 |
| XE-135M          | Ci            | < LLD    | < LLD    | < LLD    | < LLD    |
| XE-138           | Ci            | 1.69E-05 | < LLD    | < LLD    | < LLD    |
|                  |               |          |          |          |          |
| Total for Period | Ci            | 3.52E-04 | 4.78E-04 | 1.15E-04 | 9.89E-05 |

**SITE: LIMERICK GENERATING STATION – UNITS 1 & 2**  
**LICENSEE: EXELON GENERATION COMPANY, LLC**

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**SITE:** LIMERICK GENERATING STATION – UNITS 1 & 2  
**LICENSEE:** EXELON GENERATION COMPANY, LLC

**Appendix B**  
**Solid Waste and Irradiated Fuel Shipments**

**SITE: LIMERICK GENERATING STATION – UNITS 1 & 2**  
**LICENSEE: EXELON GENERATION COMPANY, LLC**

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SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

A. Solid waste shipped offsite for burial or disposal (not irradiated fuel) 1/1/07 – 12/31/07

1. Type of waste

| Type of waste  | Unit           | 12 Month Period | Estimated Error % |
|--|----------------|-----------------|-------------------|
| a. Spent resin, filters sludges, evaporator bottoms, etc | m <sup>3</sup> | 87.94           | 25%               |
|  | Ci             | 4.43E+02        |                   |
| b. Dry compressible waste, contaminated equipment, etc.  | m <sup>3</sup> | 154.84          | 25%               |
|  | Ci             | 5.20E+00        |                   |
| c. Irradiated components, control rods, etc.             | m <sup>3</sup> | 6.49            | 25%               |
|  | Ci             | 2.74E+04        |                   |
| d. Other (Describe)                                      | m <sup>3</sup> | None            | N/A               |
|  | Ci             | None            |                   |

2. Estimate of Major Nuclide Composition (By Waste Type)

Category A – Spent Resin, Filters, Sludges, Evaporator Bottoms, etc.

| Isotope | Waste Class A<br>Curies * | Percent Abundance | Waste Class B<br>Curies * | Percent Abundance | Waste Class C<br>Curies* | Percent Abundance |
|---------|---------------------------|-------------------|---------------------------|-------------------|--------------------------|-------------------|
| C-14    | 2.05E+00                  | 1.71%             | 2.17E-01                  | 0.08%             | 8.17E-01                 | 1.32%             |
| Mn-54   | 1.88E+01                  | 15.77%            | 6.15E+01                  | 23.57%            | 8.58E+00                 | 13.94%            |
| Fe-55   | 1.15E+01                  | 9.64%             | 3.00E+01                  | 11.49%            | 5.88E+00                 | 9.56%             |
| Co-58   | 2.14E+00                  | 1.78%             | 9.17E+00                  | 3.51%             | 7.98E-01                 | 1.29%             |
| Co-60   | 5.66E+01                  | 47.52%            | 6.33E+01                  | 24.25%            | 2.73E+01                 | 44.39%            |
| Ni-63   | 1.60E+01                  | 13.42%            | 6.95E+00                  | 2.66%             | 9.61E+00                 | 15.62%            |
| Zn-65   | 5.67E+00                  | 4.73%             | 1.34E+01                  | 5.13%             | 4.72E+00                 | 7.67%             |
| Cs-137  | 2.88E+00                  | 2.39%             | 3.33E-01                  | 0.13%             | 1.93E+00                 | 3.13%             |
| Cr-51   | 2.49E+00                  | 2.07%             | 5.43E+01                  | 20.80%            | 1.20E+00                 | 1.95%             |
| Fe-59   | 4.68E-01                  | 0.37%             | 1.35E+01                  | 5.17%             | 3.07E-01                 | 0.49%             |
| H-3     | 1.51E-01                  | 0.11%             | 3.23E-01                  | 0.12%             | 2.31E-01                 | 0.37%             |
| Nb-95   | 0.00E+00                  | 0.00%             | 8.04E+00                  | 3.08%             | 0.00E+00                 | 0.00%             |
| Sr-90   | 9.04E-02                  | 0.07%             | 3.28E-02                  | 0.01%             | 1.70E-01                 | 0.27%             |
| Cs-134  | 4.94E-01                  | 0.42%             | 0.00E+00                  | 0.00%             | 0.00E+00                 | 0.00%             |
| Totals  | 1.19E+02                  | 100.00%           | 2.61E+02                  | 100.00%           | 6.15E+01                 | 100.00%           |

\* Activity is estimated

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Category B – Dry Compressible Waste, Contaminated Equipment, etc.

| Isotope | Waste Class A<br>Curies * | Percent<br>Abundance |
|---------|---------------------------|----------------------|
| Cr-51   | 9.59E-01                  | 18.48%               |
| Mn-54   | 6.69E-01                  | 12.89%               |
| Fe-55   | 4.36E-01                  | 8.40%                |
| Co-58   | 3.37E-01                  | 6.50%                |
| Co-60   | 1.57E+00                  | 30.25%               |
| Fe-59   | 1.30E-01                  | 2.51%                |
| Zn-65   | 9.23E-01                  | 17.78%               |
| Ni-63   | 8.53E-02                  | 1.64%                |
| Cs-137  | 4.14E-02                  | 0.79%                |
| Nb-95   | 3.95E-02                  | 0.76%                |
|         |                           |                      |
| Totals  | 5.19E+00                  | 100.00%              |

\* Activity is estimated

Category C – Irradiated components, control rods, etc.

| Isotope | Waste Class C<br>Curies * | Percent<br>Abundance |
|---------|---------------------------|----------------------|
| C-14    | 1.81E+00                  | 0.01%                |
| Cr-51   | 7.22E+01                  | 0.27%                |
| Mn54    | 4.40E+02                  | 1.60%                |
| Fe-55   | 1.18E+04                  | 42.95%               |
| Sb-125  | 1.39E+03                  | 5.06%                |
| Co-58   | 5.97E+01                  | 0.21%                |
| Co-60   | 1.19E+04                  | 43.32%               |
| Ni-59   | 4.48E+00                  | 0.02%                |
| Ni-63   | 8.85E+02                  | 3.22%                |
| Zn-65   | 1.42E+00                  | 0.01%                |
| Nb-95   | 4.95E+00                  | 0.02%                |
| Te-125m | 1.58E+02                  | 0.57%                |
| Ta-182  | 4.26E+01                  | 0.15%                |
| Zr-95   | 3.56E+00                  | 0.01%                |
| Sn-119m | 6.93E+02                  | 2.52%                |
| Sn-113  | 3.90E+00                  | 0.01%                |
| Sn-123  | 1.59E+00                  | 0.01%                |
| Fe-59   | 8.32E+00                  | 0.03%                |
| H-3     | 9.93E-01                  | 0.01%                |
|         |                           |                      |
| Totals  | 2.75E+04                  | 100.00%              |

\* Activity is estimated

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3. Solid Waste (Disposition)

| Number of Shipments | Mode of Transportation | Destination                                    |
|---------------------|------------------------|--|
| 8                   | Truck                  | Studsvik (THOR) to Barnwell                    |
| 9                   | Truck                  | Studsvik (THOR) to Energy Solutions / Clive    |
| 13                  | Truck                  | Duratek to Energy Solutions / Clive            |
| 13                  | Truck                  | Limerick Gen. Sta. To Energy Solutions / Clive |
| 6                   | Truck                  | Limerick Generating Station to Barnwell        |

Comments:

21 Shipments were made from Limerick to Duratek for processing  
 4 Shipments were made from Limerick to Studsvik (THOR) for processing  
 No solidifications were performed

Category A - 26 shipments Type A LSA  
 Category A - 5 shipments > Type A LSA  
 Category A - 2 shipments Type B  
 Category B - 34 shipments Type A LSA  
 Category C – 4 shipments Type B  
 Category D - No shipments made

B. Irradiated Fuel Shipments (disposition)

| Number of Shipments | Mode of Transportation | Destination |
|---------------------|------------------------|-------------|
| 4                   | Truck                  | Barnwell    |

C. Changes to the Process Control Program

Revision 5 to procedure RW-AA-100, "Process Control Program For Radioactive Waste" was implemented in 2007. The revisions were minor and provided program clarification. The revision did not make any changes to the Process Control Program at Limerick.

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**Appendix C**  
**Radiological Impact to Man**

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Per ODCM Control 6.2, the Annual Radioactive Effluent Release Report shall include an assessment of the radiation doses to the hypothetically highest exposed MEMBER OF THE PUBLIC from reactor releases and other nearby uranium fuel cycle sources. For purposes of this calculation the following assumptions were made:

**Gaseous**

- Annual average meteorology and actual gaseous effluent releases were used.
- Beta air dose attributed to noble gas releases.
- The sector with the highest x/Q, x/Q depleted and D/Q was the SE sector at Site Boundary 762 meters.
- All significant pathways were assumed to be present
- Occupancy factor was considered 100%.

**Liquid**

- Average river flow rate for the year (2.358E+03 cfs) was used.

A summary of gaseous and liquid radiation doses to members of the public at these locations was as follows:

| Effluent                      | Applicable Organ   | Estimated Dose | Age Group | Location          |                    | % of Applicable Limit | Limit | Unit |
|-------------------------------|--------------------|----------------|-----------|-------------------|--------------------|-----------------------|-------|------|
|                               |                    |                |           | Distance (meters) | Direction (toward) |                       |       |      |
| Noble Gas                     | Gamma - Air Dose   | 5.25E-03       | All       | 762               | SE                 | 2.63E-02              | 20    | mRad |
| Noble Gas                     | Beta – Air Dose    | 3.10E-03       | All       | 762               | SE                 | 7.75E-03              | 40    | mRad |
| Noble Gas                     | Total Body (Gamma) | 3.47E-03       | All       | 762               | SE                 | 3.47E-02              | 10    | mrem |
| Noble Gas                     | Skin (Beta)        | 6.40E-03       | All       | 762               | SE                 | 2.13E-02              | 30    | mrem |
| Iodine, Particulate & Tritium | Thyroid            | 1.03E-02       | Infant    | 762               | SE                 | 3.40E-02              | 30    | mrem |
| Liquid                        | Total Body         | 3.82E-03       | Adult     | LGS Outfall       |                    | 6.37E-02              | 6     | mrem |
| Liquid                        | Liver              | 5.07E-03       | Teen      | LGS Outfall       |                    | 2.54E-02              | 20    | mrem |

Doses calculated were well below all ODCM and 40 CFR Part 190 limits of 25 mrem to a real individual.

The ODCM does not require population doses to be calculated.

ODCM Control 6.2 also requires that the Annual Effluent Release Report shall include an assessment of the radiation doses from radioactive liquid and gaseous effluents to members of the public due to activities inside the Site Boundary during the report period. ODCM Controls state that MEMBER OF THE PUBLIC shall include all persons not occupationally associated with the plant. This category does not include employees of the utility or contractors. Also excluded from this category are persons who enter the site to service equipment or to make deliveries. This category does include persons who use portions of the site for recreational, occupational education, or other purposes not associated with the plant. Areas within the site boundary, where radiation dose of this type could occur include the Limerick Information Center on Longview Road near the rear exit of the plant, Frick's Lock on the west shore of the Schuylkill River and the railroad tracks that runs along the east shore of the River. The dose to State Police and National Guard personnel around the location of the Security Checkpoint was also included in this report. The radiation doses to Members of the Public have been estimated using methodology stated in the ODCM. The maximum gaseous dose to members of the public at these locations is based on the following assumptions:

- Annual average meteorology and actual effluent releases were used.

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- Beta air dose attributed to noble gas releases.
- Dose is from ground plane and inhalation only. No ingestion dose.
- Adult age group was used for the State Police and National Guard Dose.
- The calculated annual average x/Q, x/Q depleted and D/Q for the highest exposed sector for the railroad tracks (W), and the sectors encompassing the Security Checkpoint, Frick's Lock and the Information Center were used.
- The maximum expected occupancy factor is 25% of a working year at all locations.
- Distance to the railroad tracks, which pass through the Site Boundary in the W sector, is approximately 225 meters.
- Distance to the Limerick Information Center is approximately 884 meters in the ESE sector.
- Distance to Frick's Lock is approximately 450 meters in the WSW sector.
- Distance to Security Checkpoint is approximately 682 meters in the NNE sector.

A summary of gaseous radiation doses to members of the public at these locations is as follows:

| Location                              | Sector | Approx. Distance (meters) | GAMMA AIR DOSE, MRAD <sup>(1)</sup> | Beta Air Dose, MRAD <sup>(2)</sup> | Iodine/Part/H3 Organ Dose, MREM <sup>(3)</sup> |
|---------------------------------------|--------|---------------------------|-------------------------------------|------------------------------------|--|
| Frick's Lock                          | WSW    | 450                       | 5.28E-04                            | 3.11E-04                           | 6.98E-05                                       |
| Info. Center                          | ESE    | 884                       | 7.90E-04                            | 4.66E-04                           | 1.43E-04                                       |
| R.R. Tracks                           | W      | 225                       | 1.74E-03                            | 1.03E-03                           | 2.18E-04                                       |
| National Guard / Security Check Point | NNE    | 682                       | 4.55E-04                            | 2.68E-04                           | 7.63E-05                                       |

Notes:

(1) The limit for Gamma Air Dose = 20 mRad/Yr (ref. ODCM 3.2.2.2.b)

(2) The limit for Beta Air Dose = 40 mRad/Yr (ref. ODCM 3.2.2.2.b)

(3) The limit for Iodine/Particulate/H-3 Organ Dose = 30 mrem/Yr (ref. ODCM 3.2.2.3.b)

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Appendix D  
Meteorological Data

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Table D - 1 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, January - March, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Mar for years 2007 - 2007  
 All Stabilities  
 Elevations:: Winds 30ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 13      | 5       | 9       | 4       | 10      | 14      | 7       | 0       | 0        | 0      | 62    |
| NNE                   | 0                      | 17      | 19      | 10      | 17      | 7       | 4       | 0       | 0       | 0        | 0      | 74    |
| NE                    | 0                      | 17      | 14      | 7       | 14      | 9       | 3       | 0       | 0       | 0        | 0      | 64    |
| ENE                   | 0                      | 20      | 21      | 13      | 22      | 15      | 4       | 0       | 0       | 0        | 0      | 95    |
| E                     | 2                      | 10      | 9       | 5       | 14      | 14      | 1       | 2       | 0       | 0        | 0      | 57    |
| ESE                   | 0                      | 15      | 14      | 7       | 9       | 5       | 5       | 2       | 0       | 0        | 0      | 57    |
| SE                    | 0                      | 8       | 14      | 3       | 6       | 2       | 0       | 1       | 0       | 0        | 0      | 34    |
| SSE                   | 0                      | 4       | 7       | 18      | 18      | 4       | 3       | 0       | 0       | 0        | 0      | 54    |
| S                     | 0                      | 11      | 11      | 17      | 29      | 11      | 0       | 0       | 0       | 0        | 0      | 79    |
| SSW                   | 0                      | 14      | 21      | 19      | 45      | 29      | 10      | 0       | 0       | 0        | 0      | 138   |
| SW                    | 0                      | 19      | 27      | 20      | 17      | 8       | 1       | 0       | 0       | 0        | 0      | 92    |
| WSW                   | 1                      | 37      | 24      | 11      | 16      | 10      | 2       | 0       | 0       | 0        | 0      | 101   |
| W                     | 1                      | 34      | 39      | 32      | 51      | 47      | 33      | 13      | 7       | 1        | 0      | 258   |
| WNW                   | 0                      | 30      | 31      | 32      | 81      | 78      | 87      | 70      | 60      | 6        | 0      | 475   |
| NW                    | 0                      | 15      | 12      | 11      | 26      | 38      | 36      | 55      | 115     | 41       | 20     | 369   |
| NNW                   | 0                      | 5       | 13      | 10      | 7       | 11      | 16      | 13      | 4       | 0        | 0      | 79    |
| Tot                   | 4                      | 269     | 281     | 224     | 376     | 298     | 219     | 163     | 186     | 48       | 20     | 2088  |

Hours of Calm . . . . . 61  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 2149  
 Hours of Missing Data . . . . . 11  
 Hours in Period . . . . . 2160

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Table D - 1 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, January - March, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Mar for years 2007 - 2007  
 Stability Class A Extremely Unstable based on Lapse Rate  
 Elevations:: Winds 30ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| NNE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| NE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| ENE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| E                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| ESE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SSE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| S                     | 0                      | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| SSW                   | 0                      | 0       | 0       | 0       | 1       | 3       | 1       | 0       | 0       | 0        | 0      | 5     |
| SW                    | 0                      | 0       | 0       | 0       | 2       | 3       | 0       | 0       | 0       | 0        | 0      | 5     |
| WSW                   | 0                      | 0       | 0       | 0       | 2       | 1       | 0       | 0       | 0       | 0        | 0      | 3     |
| W                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| WNW                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| NW                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| NNW                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| Tot                   | 0                      | 0       | 0       | 0       | 6       | 7       | 1       | 0       | 0       | 0        | 0      | 14    |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 14  
 Hours of Missing Data . . . . . 11  
 Hours in Period . . . . . 2160

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
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Table D - 1 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, January - March, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Mar for years 2007 - 2007  
 Stability Class B Moderately Unstable based on Lapse Rate

Elevations:: Winds 30ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| NNE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| NE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| ENE                   | 0                      | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| E                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| ESE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SSE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| S                     | 0                      | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0        | 0      | 1     |
| SSW                   | 0                      | 0       | 0       | 1       | 4       | 3       | 5       | 0       | 0       | 0        | 0      | 13    |
| SW                    | 0                      | 0       | 0       | 1       | 3       | 0       | 0       | 0       | 0       | 0        | 0      | 4     |
| WSW                   | 0                      | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| W                     | 0                      | 0       | 0       | 0       | 2       | 3       | 5       | 1       | 1       | 0        | 0      | 12    |
| WNW                   | 0                      | 0       | 0       | 0       | 0       | 1       | 4       | 3       | 3       | 0        | 0      | 11    |
| NW                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| NNW                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| Tot                   | 0                      | 0       | 1       | 2       | 10      | 8       | 14      | 4       | 4       | 0        | 0      | 43    |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 43  
 Hours of Missing Data . . . . . 11  
 Hours in Period . . . . . 2160

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
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Table D - 1 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, January - March, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Mar for years 2007 - 2007  
 Stability Class C Slightly Unstable based on Lapse Rate  
 Elevations:: Winds 30ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| NNE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| NE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| ENE                   | 0                      | 0       | 1       | 1       | 0       | 1       | 0       | 0       | 0       | 0        | 0      | 3     |
| E                     | 0                      | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| ESE                   | 0                      | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| SE                    | 0                      | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| SSE                   | 0                      | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| S                     | 0                      | 0       | 0       | 0       | 0       | 2       | 0       | 0       | 0       | 0        | 0      | 2     |
| SSW                   | 0                      | 0       | 0       | 0       | 4       | 6       | 1       | 0       | 0       | 0        | 0      | 11    |
| SW                    | 0                      | 0       | 0       | 0       | 2       | 1       | 0       | 0       | 0       | 0        | 0      | 3     |
| WSW                   | 0                      | 0       | 0       | 0       | 2       | 2       | 1       | 0       | 0       | 0        | 0      | 5     |
| W                     | 0                      | 0       | 0       | 0       | 2       | 4       | 3       | 4       | 0       | 1        | 0      | 14    |
| WNW                   | 0                      | 0       | 0       | 0       | 0       | 2       | 4       | 13      | 12      | 3        | 0      | 34    |
| NW                    | 0                      | 0       | 0       | 0       | 0       | 0       | 1       | 1       | 4       | 1        | 0      | 7     |
| NNW                   | 0                      | 0       | 0       | 0       | 0       | 1       | 0       | 1       | 0       | 0        | 0      | 2     |
| Tot                   | 0                      | 0       | 2       | 1       | 13      | 19      | 10      | 19      | 16      | 5        | 0      | 85    |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 85  
 Hours of Missing Data . . . . . 11  
 Hours in Period . . . . . 2160

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 1 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, January - March, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Mar for years 2007 - 2007  
 Stability Class D Neutral based on Lapse Rate  
 Elevations:: Winds 30ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 4       | 1       | 3       | 2       | 2       | 10      | 4       | 0       | 0        | 0      | 26    |
| NNE                   | 0                      | 12      | 12      | 2       | 2       | 4       | 2       | 0       | 0       | 0        | 0      | 34    |
| NE                    | 0                      | 4       | 9       | 6       | 7       | 8       | 3       | 0       | 0       | 0        | 0      | 37    |
| ENE                   | 0                      | 12      | 9       | 9       | 18      | 12      | 3       | 0       | 0       | 0        | 0      | 63    |
| E                     | 0                      | 4       | 7       | 3       | 8       | 11      | 0       | 1       | 0       | 0        | 0      | 34    |
| ESE                   | 0                      | 9       | 7       | 2       | 7       | 4       | 3       | 1       | 0       | 0        | 0      | 33    |
| SE                    | 0                      | 3       | 7       | 2       | 2       | 1       | 0       | 0       | 0       | 0        | 0      | 15    |
| SSE                   | 0                      | 4       | 4       | 6       | 5       | 0       | 0       | 0       | 0       | 0        | 0      | 19    |
| S                     | 0                      | 6       | 4       | 10      | 13      | 4       | 0       | 0       | 0       | 0        | 0      | 37    |
| SSW                   | 0                      | 3       | 6       | 4       | 19      | 11      | 3       | 0       | 0       | 0        | 0      | 46    |
| SW                    | 0                      | 4       | 4       | 9       | 4       | 2       | 0       | 0       | 0       | 0        | 0      | 23    |
| WSW                   | 0                      | 7       | 3       | 5       | 2       | 4       | 1       | 0       | 0       | 0        | 0      | 22    |
| W                     | 0                      | 5       | 10      | 7       | 15      | 26      | 21      | 7       | 6       | 0        | 0      | 97    |
| WNW                   | 0                      | 5       | 5       | 5       | 44      | 56      | 68      | 51      | 42      | 3        | 0      | 279   |
| NW                    | 0                      | 4       | 5       | 2       | 18      | 37      | 34      | 54      | 110     | 40       | 20     | 324   |
| NNW                   | 0                      | 0       | 7       | 6       | 1       | 5       | 15      | 12      | 4       | 0        | 0      | 50    |
| Tot                   | 0                      | 86      | 100     | 81      | 167     | 187     | 163     | 130     | 162     | 43       | 20     | 1139  |

Hours of Calm . . . . . 4  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 1143  
 Hours of Missing Data . . . . . 11  
 Hours in Period . . . . . 2160

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 1 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, January - March, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Mar for years 2007 - 2007  
 Stability Class E Slightly Stable based on Lapse Rate  
 Elevations:: Winds 30ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 6       | 4       | 5       | 2       | 8       | 4       | 3       | 0       | 0        | 0      | 32    |
| NNE                   | 0                      | 2       | 5       | 8       | 14      | 3       | 2       | 0       | 0       | 0        | 0      | 34    |
| NE                    | 0                      | 8       | 4       | 1       | 6       | 1       | 0       | 0       | 0       | 0        | 0      | 20    |
| ENE                   | 0                      | 3       | 9       | 3       | 4       | 2       | 1       | 0       | 0       | 0        | 0      | 22    |
| E                     | 2                      | 2       | 1       | 0       | 4       | 3       | 1       | 1       | 0       | 0        | 0      | 14    |
| ESE                   | 0                      | 3       | 3       | 4       | 1       | 1       | 2       | 1       | 0       | 0        | 0      | 15    |
| SE                    | 0                      | 2       | 6       | 0       | 2       | 1       | 0       | 1       | 0       | 0        | 0      | 12    |
| SSE                   | 0                      | 0       | 2       | 12      | 11      | 4       | 3       | 0       | 0       | 0        | 0      | 32    |
| S                     | 0                      | 4       | 7       | 6       | 15      | 4       | 0       | 0       | 0       | 0        | 0      | 36    |
| SSW                   | 0                      | 9       | 12      | 14      | 16      | 6       | 0       | 0       | 0       | 0        | 0      | 57    |
| SW                    | 0                      | 10      | 13      | 6       | 6       | 2       | 1       | 0       | 0       | 0        | 0      | 38    |
| WSW                   | 0                      | 22      | 16      | 6       | 8       | 2       | 0       | 0       | 0       | 0        | 0      | 54    |
| W                     | 1                      | 17      | 20      | 21      | 32      | 14      | 4       | 1       | 0       | 0        | 0      | 110   |
| WNW                   | 0                      | 13      | 14      | 21      | 34      | 19      | 11      | 3       | 3       | 0        | 0      | 118   |
| NW                    | 0                      | 4       | 3       | 8       | 8       | 1       | 1       | 0       | 1       | 0        | 0      | 26    |
| NNW                   | 0                      | 2       | 4       | 3       | 6       | 5       | 1       | 0       | 0       | 0        | 0      | 21    |
| Tot                   | 3                      | 107     | 123     | 118     | 169     | 76      | 31      | 10      | 4       | 0        | 0      | 641   |

Hours of Calm . . . . . 14  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 655  
 Hours of Missing Data . . . . . 11  
 Hours in Period . . . . . 2160

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 1 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, January - March, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Mar for years 2007 - 2007  
 Stability Class F Moderately Stable based on Lapse Rate  
 Elevations:: Winds 30ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| NNE                   | 0                      | 2       | 1       | 0       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 4     |
| NE                    | 0                      | 3       | 1       | 0       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 5     |
| ENE                   | 0                      | 2       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 3     |
| E                     | 0                      | 3       | 1       | 2       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 7     |
| ESE                   | 0                      | 3       | 2       | 1       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 7     |
| SE                    | 0                      | 3       | 1       | 1       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 6     |
| SSE                   | 0                      | 0       | 1       | 0       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| S                     | 0                      | 0       | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| SSW                   | 0                      | 2       | 3       | 0       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 6     |
| SW                    | 0                      | 5       | 9       | 4       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 18    |
| WSW                   | 0                      | 7       | 2       | 0       | 1       | 1       | 0       | 0       | 0       | 0        | 0      | 11    |
| W                     | 0                      | 7       | 5       | 4       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 16    |
| WNW                   | 0                      | 9       | 8       | 6       | 3       | 0       | 0       | 0       | 0       | 0        | 0      | 26    |
| NW                    | 0                      | 4       | 1       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 6     |
| NNW                   | 0                      | 2       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 3     |
| Tot                   | 0                      | 52      | 37      | 21      | 11      | 1       | 0       | 0       | 0       | 0        | 0      | 122   |

Hours of Calm . . . . . 20  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 142  
 Hours of Missing Data . . . . . 11  
 Hours in Period . . . . . 2160

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 1 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, January - March, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Mar for years 2007 - 2007  
 Stability Class G Extremely Stable based on Lapse Rate  
 Elevations:: Winds 30ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 3       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 3     |
| NNE                   | 0                      | 1       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| NE                    | 0                      | 2       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| ENE                   | 0                      | 3       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 3     |
| E                     | 0                      | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| ESE                   | 0                      | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| SE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SSE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| S                     | 0                      | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| SSW                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SW                    | 0                      | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| WSW                   | 1                      | 1       | 3       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 5     |
| W                     | 0                      | 5       | 4       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 9     |
| WNW                   | 0                      | 3       | 4       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 7     |
| NW                    | 0                      | 3       | 3       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 6     |
| NNW                   | 0                      | 1       | 1       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 3     |
| Tot                   | 1                      | 24      | 18      | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 44    |

Hours of Calm . . . . . 23  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 67  
 Hours of Missing Data . . . . . 11  
 Hours in Period . . . . . 2160

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 2 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, January - March, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Mar for years 2007 - 2007  
 All Stabilities  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 3       | 3       | 11      | 6       | 5       | 16      | 15      | 1        | 0      | 60    |
| NNE                   | 0                      | 1       | 6       | 3       | 11      | 11      | 10      | 9       | 3       | 0        | 0      | 54    |
| NE                    | 0                      | 5       | 5       | 11      | 16      | 9       | 11      | 3       | 1       | 0        | 0      | 61    |
| ENE                   | 0                      | 8       | 13      | 7       | 25      | 10      | 9       | 3       | 0       | 0        | 0      | 75    |
| E                     | 0                      | 6       | 8       | 6       | 7       | 15      | 7       | 4       | 3       | 1        | 0      | 57    |
| ESE                   | 0                      | 3       | 8       | 5       | 11      | 7       | 7       | 3       | 6       | 0        | 0      | 50    |
| SE                    | 0                      | 6       | 7       | 3       | 8       | 5       | 4       | 2       | 1       | 0        | 0      | 36    |
| SSE                   | 0                      | 4       | 9       | 9       | 11      | 6       | 5       | 3       | 1       | 1        | 0      | 49    |
| S                     | 0                      | 3       | 10      | 5       | 25      | 33      | 27      | 12      | 4       | 0        | 0      | 119   |
| SSW                   | 0                      | 6       | 7       | 8       | 29      | 22      | 32      | 33      | 21      | 0        | 0      | 158   |
| SW                    | 0                      | 3       | 8       | 8       | 39      | 30      | 20      | 13      | 10      | 1        | 0      | 132   |
| WSW                   | 0                      | 1       | 9       | 9       | 20      | 14      | 9       | 14      | 8       | 0        | 0      | 84    |
| W                     | 0                      | 1       | 14      | 19      | 30      | 22      | 24      | 41      | 44      | 19       | 8      | 222   |
| WNW                   | 0                      | 4       | 4       | 7       | 34      | 69      | 93      | 78      | 139     | 104      | 42     | 574   |
| NW                    | 0                      | 3       | 2       | 6       | 19      | 28      | 34      | 24      | 52      | 74       | 61     | 303   |
| NNW                   | 0                      | 2       | 4       | 6       | 7       | 11      | 10      | 9       | 22      | 5        | 0      | 76    |
| Tot                   | 0                      | 56      | 117     | 115     | 303     | 298     | 307     | 267     | 330     | 206      | 111    | 2110  |

Hours of Calm . . . . . 9  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 2119  
 Hours of Missing Data . . . . . 41  
 Hours in Period . . . . . 2160

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 2 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, January - March, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Mar for years 2007 - 2007  
 Stability Class A Extremely Unstable based on Lapse Rate  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 1       | 0        | 0      | 1     |
| NNE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| NE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| ENE                   | 0                      | 0       | 0       | 0       | 1       | 0       | 1       | 0       | 0       | 0        | 0      | 2     |
| E                     | 0                      | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0        | 0      | 1     |
| ESE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SSE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| S                     | 0                      | 0       | 0       | 0       | 0       | 1       | 1       | 2       | 0       | 0        | 0      | 4     |
| SSW                   | 0                      | 0       | 0       | 0       | 1       | 1       | 10      | 9       | 8       | 0        | 0      | 29    |
| SW                    | 0                      | 0       | 0       | 0       | 0       | 3       | 4       | 4       | 4       | 0        | 0      | 15    |
| WSW                   | 0                      | 0       | 0       | 0       | 0       | 1       | 0       | 6       | 1       | 0        | 0      | 8     |
| W                     | 0                      | 0       | 0       | 0       | 0       | 3       | 1       | 5       | 8       | 8        | 0      | 25    |
| WNW                   | 0                      | 0       | 0       | 0       | 1       | 0       | 0       | 1       | 6       | 15       | 4      | 27    |
| NW                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 2      | 2     |
| NNW                   | 0                      | 0       | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 0        | 0      | 1     |
| Tot                   | 0                      | 0       | 0       | 0       | 3       | 10      | 18      | 27      | 28      | 23       | 6      | 115   |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 115  
 Hours of Missing Data . . . . . 41  
 Hours in Period . . . . . 2160

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 2 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, January - March, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Mar for years 2007 - 2007  
 Stability Class B Moderately Unstable based on Lapse Rate  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 2       | 1       | 0        | 0      | 3     |
| NNE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| NE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| ENE                   | 0                      | 0       | 0       | 1       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| E                     | 0                      | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0        | 0      | 1     |
| ESE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SE                    | 0                      | 0       | 0       | 0       | 1       | 1       | 0       | 0       | 0       | 0        | 0      | 2     |
| SSE                   | 0                      | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0        | 0      | 1     |
| S                     | 0                      | 0       | 0       | 0       | 1       | 1       | 0       | 0       | 0       | 0        | 0      | 2     |
| SSW                   | 0                      | 0       | 0       | 0       | 0       | 0       | 2       | 2       | 0       | 0        | 0      | 4     |
| SW                    | 0                      | 0       | 0       | 0       | 1       | 0       | 1       | 3       | 0       | 0        | 0      | 5     |
| WSW                   | 0                      | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 1       | 0        | 0      | 2     |
| W                     | 0                      | 0       | 0       | 0       | 0       | 2       | 1       | 0       | 3       | 1        | 1      | 8     |
| WNW                   | 0                      | 0       | 0       | 0       | 0       | 1       | 0       | 3       | 6       | 14       | 2      | 26    |
| NW                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 4       | 8        | 2      | 14    |
| NNW                   | 0                      | 0       | 0       | 1       | 0       | 1       | 0       | 0       | 1       | 1        | 0      | 4     |
| Tot                   | 0                      | 0       | 0       | 2       | 5       | 8       | 4       | 10      | 16      | 24       | 5      | 74    |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 74  
 Hours of Missing Data . . . . . 41  
 Hours in Period . . . . . 2160

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 2 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, January - March, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Mar for years 2007 - 2007  
 Stability Class C Slightly Unstable based on Lapse Rate  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 0       | 1       | 0       | 1       | 0       | 3       | 0        | 0      | 5     |
| NNE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 1       | 0       | 1       | 0        | 0      | 2     |
| NE                    | 0                      | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0        | 0      | 1     |
| ENE                   | 0                      | 0       | 0       | 0       | 3       | 3       | 0       | 0       | 0       | 0        | 0      | 6     |
| E                     | 0                      | 0       | 2       | 0       | 5       | 1       | 0       | 0       | 0       | 0        | 0      | 8     |
| ESE                   | 0                      | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0        | 0      | 1     |
| SE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SSE                   | 0                      | 0       | 1       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| S                     | 0                      | 0       | 0       | 1       | 2       | 0       | 1       | 0       | 0       | 0        | 0      | 4     |
| SSW                   | 0                      | 0       | 2       | 1       | 1       | 1       | 1       | 3       | 1       | 0        | 0      | 10    |
| SW                    | 0                      | 0       | 1       | 1       | 2       | 0       | 0       | 2       | 0       | 0        | 0      | 6     |
| WSW                   | 0                      | 0       | 3       | 0       | 1       | 0       | 0       | 1       | 0       | 0        | 0      | 5     |
| W                     | 0                      | 0       | 3       | 1       | 0       | 0       | 1       | 0       | 3       | 2        | 3      | 13    |
| WNW                   | 0                      | 0       | 0       | 2       | 0       | 5       | 2       | 2       | 10      | 9        | 4      | 34    |
| NW                    | 0                      | 1       | 0       | 1       | 1       | 1       | 3       | 1       | 8       | 12       | 8      | 36    |
| NNW                   | 0                      | 0       | 1       | 1       | 0       | 1       | 0       | 0       | 3       | 1        | 0      | 7     |
| Tot                   | 0                      | 1       | 13      | 9       | 16      | 14      | 10      | 9       | 29      | 24       | 15     | 140   |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 140  
 Hours of Missing Data . . . . . 41  
 Hours in Period . . . . . 2160

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 2 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, January - March, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Mar for years 2007 - 2007  
 Stability Class D Neutral based on Lapse Rate  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 1       | 4       | 2       | 1       | 6       | 7       | 0        | 0      | 21    |
| NNE                   | 0                      | 1       | 5       | 3       | 3       | 5       | 1       | 1       | 0       | 0        | 0      | 19    |
| NE                    | 0                      | 4       | 5       | 10      | 11      | 3       | 8       | 3       | 1       | 0        | 0      | 45    |
| ENE                   | 0                      | 4       | 4       | 4       | 13      | 5       | 7       | 2       | 0       | 0        | 0      | 39    |
| E                     | 0                      | 5       | 4       | 4       | 1       | 10      | 5       | 2       | 2       | 0        | 0      | 33    |
| ESE                   | 0                      | 1       | 5       | 3       | 3       | 6       | 7       | 3       | 4       | 0        | 0      | 32    |
| SE                    | 0                      | 5       | 4       | 2       | 1       | 3       | 4       | 1       | 0       | 0        | 0      | 20    |
| SSE                   | 0                      | 0       | 3       | 4       | 3       | 1       | 1       | 0       | 0       | 0        | 0      | 12    |
| S                     | 0                      | 1       | 6       | 3       | 15      | 17      | 10      | 3       | 0       | 0        | 0      | 55    |
| SSW                   | 0                      | 2       | 3       | 3       | 4       | 12      | 7       | 7       | 5       | 0        | 0      | 43    |
| SW                    | 0                      | 3       | 1       | 1       | 9       | 7       | 2       | 1       | 2       | 0        | 0      | 26    |
| WSW                   | 0                      | 0       | 1       | 3       | 3       | 3       | 1       | 1       | 3       | 0        | 0      | 15    |
| W                     | 0                      | 0       | 4       | 6       | 8       | 4       | 7       | 21      | 27      | 6        | 4      | 87    |
| WNW                   | 0                      | 1       | 2       | 2       | 8       | 21      | 50      | 50      | 105     | 63       | 31     | 333   |
| NW                    | 0                      | 1       | 1       | 0       | 7       | 8       | 21      | 23      | 39      | 54       | 49     | 203   |
| NNW                   | 0                      | 1       | 2       | 1       | 1       | 0       | 5       | 8       | 18      | 3        | 0      | 39    |
| Tot                   | 0                      | 29      | 50      | 50      | 94      | 107     | 137     | 132     | 213     | 126      | 84     | 1022  |

Hours of Calm . . . . . 3  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 1025  
 Hours of Missing Data . . . . . 41  
 Hours in Period . . . . . 2160

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 2 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, January - March, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Mar for years 2007 - 2007  
 Stability Class E Slightly Stable based on Lapse Rate  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 2       | 2       | 5       | 3       | 3       | 8       | 3       | 1        | 0      | 27    |
| NNE                   | 0                      | 0       | 1       | 0       | 6       | 5       | 7       | 6       | 2       | 0        | 0      | 27    |
| NE                    | 0                      | 0       | 0       | 0       | 4       | 5       | 2       | 0       | 0       | 0        | 0      | 11    |
| ENE                   | 0                      | 1       | 5       | 1       | 6       | 2       | 1       | 1       | 0       | 0        | 0      | 17    |
| E                     | 0                      | 0       | 0       | 1       | 1       | 2       | 1       | 2       | 1       | 1        | 0      | 9     |
| ESE                   | 0                      | 0       | 1       | 1       | 6       | 0       | 0       | 0       | 2       | 0        | 0      | 10    |
| SE                    | 0                      | 1       | 3       | 1       | 5       | 1       | 0       | 1       | 1       | 0        | 0      | 13    |
| SSE                   | 0                      | 3       | 1       | 1       | 5       | 2       | 4       | 3       | 1       | 1        | 0      | 21    |
| S                     | 0                      | 1       | 0       | 0       | 2       | 14      | 14      | 6       | 4       | 0        | 0      | 41    |
| SSW                   | 0                      | 1       | 0       | 1       | 12      | 7       | 11      | 11      | 7       | 0        | 0      | 50    |
| SW                    | 0                      | 0       | 3       | 3       | 15      | 14      | 6       | 1       | 3       | 1        | 0      | 46    |
| WSW                   | 0                      | 0       | 2       | 2       | 8       | 4       | 6       | 5       | 2       | 0        | 0      | 29    |
| W                     | 0                      | 0       | 2       | 4       | 7       | 8       | 12      | 12      | 3       | 2        | 0      | 50    |
| WNW                   | 0                      | 1       | 0       | 2       | 13      | 27      | 26      | 19      | 12      | 3        | 1      | 104   |
| NW                    | 0                      | 0       | 0       | 2       | 6       | 8       | 7       | 0       | 1       | 0        | 0      | 24    |
| NNW                   | 0                      | 1       | 1       | 3       | 5       | 6       | 3       | 1       | 0       | 0        | 0      | 20    |
| Tot                   | 0                      | 9       | 21      | 24      | 106     | 108     | 103     | 76      | 42      | 9        | 1      | 499   |

Hours of Calm . . . . . 1  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 500  
 Hours of Missing Data . . . . . 41  
 Hours in Period . . . . . 2160

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 2 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, January - March, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Mar for years 2007 - 2007  
 Stability Class F Moderately Stable based on Lapse Rate  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 1       | 0       | 0       | 1       | 0       | 0       | 0       | 0        | 0      | 2     |
| NNE                   | 0                      | 0       | 0       | 0       | 1       | 0       | 1       | 2       | 0       | 0        | 0      | 4     |
| NE                    | 0                      | 0       | 0       | 1       | 1       | 0       | 1       | 0       | 0       | 0        | 0      | 3     |
| ENE                   | 0                      | 3       | 4       | 1       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 9     |
| E                     | 0                      | 0       | 1       | 1       | 0       | 0       | 1       | 0       | 0       | 0        | 0      | 3     |
| ESE                   | 0                      | 1       | 0       | 0       | 2       | 0       | 0       | 0       | 0       | 0        | 0      | 3     |
| SE                    | 0                      | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| SSE                   | 0                      | 0       | 1       | 1       | 3       | 2       | 0       | 0       | 0       | 0        | 0      | 7     |
| S                     | 0                      | 1       | 0       | 0       | 2       | 0       | 1       | 1       | 0       | 0        | 0      | 5     |
| SSW                   | 0                      | 3       | 0       | 2       | 7       | 0       | 1       | 0       | 0       | 0        | 0      | 13    |
| SW                    | 0                      | 0       | 1       | 2       | 7       | 6       | 6       | 1       | 1       | 0        | 0      | 24    |
| WSW                   | 0                      | 0       | 0       | 1       | 5       | 6       | 2       | 1       | 1       | 0        | 0      | 16    |
| W                     | 0                      | 1       | 3       | 5       | 15      | 5       | 2       | 3       | 0       | 0        | 0      | 34    |
| WNW                   | 0                      | 0       | 1       | 0       | 8       | 9       | 11      | 2       | 0       | 0        | 0      | 31    |
| NW                    | 0                      | 1       | 1       | 2       | 3       | 6       | 3       | 0       | 0       | 0        | 0      | 16    |
| NNW                   | 0                      | 0       | 0       | 0       | 0       | 1       | 1       | 0       | 0       | 0        | 0      | 2     |
| Tot                   | 0                      | 10      | 13      | 16      | 56      | 36      | 30      | 10      | 2       | 0        | 0      | 173   |

Hours of Calm . . . . . 3  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 176  
 Hours of Missing Data . . . . . 41  
 Hours in Period . . . . . 2160

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 2 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, January - March, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Mar for years 2007 - 2007  
 Stability Class G Extremely Stable based on Lapse Rate  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| NNE                   | 0                      | 0       | 0       | 0       | 1       | 1       | 0       | 0       | 0       | 0        | 0      | 2     |
| NE                    | 0                      | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| ENE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| E                     | 0                      | 1       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| ESE                   | 0                      | 1       | 2       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 4     |
| SE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SSE                   | 0                      | 1       | 3       | 2       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 6     |
| S                     | 0                      | 0       | 4       | 1       | 3       | 0       | 0       | 0       | 0       | 0        | 0      | 8     |
| SSW                   | 0                      | 0       | 2       | 1       | 4       | 1       | 0       | 1       | 0       | 0        | 0      | 9     |
| SW                    | 0                      | 0       | 2       | 1       | 5       | 0       | 1       | 1       | 0       | 0        | 0      | 10    |
| WSW                   | 0                      | 1       | 3       | 3       | 2       | 0       | 0       | 0       | 0       | 0        | 0      | 9     |
| W                     | 0                      | 0       | 2       | 3       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 5     |
| WNW                   | 0                      | 2       | 1       | 1       | 4       | 6       | 4       | 1       | 0       | 0        | 0      | 19    |
| NW                    | 0                      | 0       | 0       | 1       | 2       | 5       | 0       | 0       | 0       | 0        | 0      | 8     |
| NNW                   | 0                      | 0       | 0       | 0       | 1       | 2       | 0       | 0       | 0       | 0        | 0      | 3     |
| Tot                   | 0                      | 7       | 20      | 14      | 23      | 15      | 5       | 3       | 0       | 0        | 0      | 87    |

Hours of Calm . . . . . 2  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 89  
 Hours of Missing Data . . . . . 41  
 Hours in Period . . . . . 2160

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 3 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, January - March, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Mar for years 2007 - 2007  
 All Stabilities  
 Elevations:: Winds 270ft Stability 266ft

| Wind Direction<br>Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|--------------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                          | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                        | 0                      | 0       | 1       | 3       | 8       | 10      | 2       | 8       | 27      | 5        | 0      | 64    |
| NNE                      | 0                      | 0       | 1       | 3       | 11      | 12      | 14      | 5       | 7       | 1        | 0      | 54    |
| NE                       | 0                      | 1       | 2       | 13      | 14      | 8       | 7       | 13      | 7       | 0        | 0      | 65    |
| ENE                      | 0                      | 1       | 3       | 4       | 14      | 15      | 9       | 6       | 4       | 0        | 0      | 56    |
| E                        | 0                      | 0       | 1       | 2       | 4       | 6       | 8       | 4       | 3       | 2        | 1      | 31    |
| ESE                      | 0                      | 0       | 2       | 2       | 4       | 7       | 5       | 5       | 5       | 2        | 0      | 32    |
| SE                       | 0                      | 3       | 0       | 3       | 9       | 1       | 2       | 3       | 0       | 2        | 0      | 23    |
| SSE                      | 0                      | 0       | 3       | 6       | 7       | 9       | 10      | 5       | 2       | 2        | 0      | 44    |
| S                        | 0                      | 3       | 3       | 3       | 20      | 25      | 34      | 28      | 18      | 2        | 0      | 136   |
| SSW                      | 0                      | 0       | 4       | 7       | 25      | 29      | 26      | 26      | 21      | 8        | 0      | 146   |
| SW                       | 0                      | 1       | 3       | 8       | 30      | 34      | 15      | 13      | 14      | 1        | 0      | 119   |
| WSW                      | 0                      | 0       | 6       | 6       | 19      | 18      | 7       | 15      | 12      | 6        | 4      | 93    |
| W                        | 0                      | 2       | 5       | 6       | 20      | 40      | 46      | 44      | 87      | 52       | 27     | 329   |
| WNW                      | 0                      | 1       | 1       | 4       | 18      | 28      | 61      | 61      | 125     | 117      | 83     | 499   |
| NW                       | 0                      | 0       | 1       | 0       | 6       | 22      | 17      | 29      | 41      | 47       | 63     | 226   |
| NNW                      | 0                      | 1       | 1       | 2       | 10      | 13      | 9       | 10      | 23      | 4        | 1      | 74    |
| Tot                      | 0                      | 13      | 37      | 72      | 219     | 277     | 272     | 275     | 396     | 251      | 179    | 1991  |

Hours of Calm . . . . . 6  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 1997  
 Hours of Missing Data . . . . . 163  
 Hours in Period . . . . . 2160

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 3 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, January - March, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Mar for years 2007 - 2007  
 Stability Class A Extremely Unstable based on Lapse Rate  
 Elevations:: Winds 270ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          | Total |        |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|-------|--------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 |       | >10.00 |
| N                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0     | 0      |
| NNE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0     | 0      |
| NE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0     | 0      |
| ENE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0     | 0      |
| E                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0     | 0      |
| ESE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0     | 0      |
| SE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0     | 0      |
| SSE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0     | 0      |
| S                     | 0                      | 0       | 0       | 0       | 0       | 1       | 1       | 0       | 0       | 0        | 0     | 2      |
| SSW                   | 0                      | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 5       | 0        | 0     | 6      |
| SW                    | 0                      | 0       | 0       | 0       | 0       | 0       | 1       | 1       | 1       | 0        | 0     | 3      |
| WSW                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 3       | 0       | 0        | 0     | 3      |
| W                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0     | 0      |
| WNW                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0     | 0      |
| NW                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0     | 0      |
| NNW                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0     | 0      |
| Tot                   | 0                      | 0       | 0       | 0       | 0       | 2       | 2       | 4       | 6       | 0        | 0     | 14     |

|                                       |      |
|---------------------------------------|------|
| Hours of Calm . . . . .               | 0    |
| Hours of Variable Direction . . . . . | 0    |
| Hours of Valid Data . . . . .         | 14   |
| Hours of Missing Data . . . . .       | 163  |
| Hours in Period . . . . .             | 2160 |

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 3 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, January - March, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Mar for years 2007 - 2007  
 Stability Class B Moderately Unstable based on Lapse Rate  
 Elevations:: Winds 270ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| NNE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| NE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| ENE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| E                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| ESE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SSE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| S                     | 0                      | 0       | 0       | 0       | 0       | 0       | 3       | 0       | 1       | 0        | 0      | 4     |
| SSW                   | 0                      | 0       | 0       | 0       | 2       | 1       | 2       | 4       | 3       | 2        | 0      | 14    |
| SW                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| WSW                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 1       | 0       | 0        | 0      | 1     |
| W                     | 0                      | 0       | 0       | 0       | 0       | 2       | 1       | 1       | 5       | 6        | 1      | 16    |
| WNW                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 1       | 0       | 5        | 1      | 7     |
| NW                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| NNW                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| Tot                   | 0                      | 0       | 0       | 0       | 2       | 3       | 6       | 7       | 9       | 13       | 2      | 42    |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 42  
 Hours of Missing Data . . . . . 163  
 Hours in Period . . . . . 2160

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 3 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, January - March, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Mar for years 2007 - 2007  
 Stability Class C Slightly Unstable based on Lapse Rate  
 Elevations:: Winds 270ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| NNE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| NE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 0        | 0      | 1     |
| ENE                   | 0                      | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| E                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| ESE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SSE                   | 0                      | 0       | 0       | 0       | 0       | 1       | 1       | 0       | 0       | 0        | 0      | 2     |
| S                     | 0                      | 0       | 0       | 0       | 0       | 0       | 3       | 5       | 0       | 0        | 0      | 8     |
| SSW                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 5       | 0       | 1        | 0      | 6     |
| SW                    | 0                      | 0       | 0       | 0       | 0       | 1       | 0       | 2       | 2       | 0        | 0      | 5     |
| WSW                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 2       | 2       | 0        | 1      | 5     |
| W                     | 0                      | 0       | 0       | 0       | 0       | 1       | 1       | 2       | 5       | 6        | 1      | 16    |
| WNW                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 3       | 3       | 17       | 10     | 33    |
| NW                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 1       | 0        | 2      | 3     |
| NNW                   | 0                      | 0       | 0       | 0       | 0       | 0       | 1       | 0       | 1       | 0        | 0      | 2     |
| Tot                   | 0                      | 0       | 0       | 0       | 1       | 3       | 7       | 19      | 14      | 24       | 14     | 82    |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 82  
 Hours of Missing Data . . . . . 163  
 Hours in Period . . . . . 2160

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
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Table D - 3 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, January - March, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Mar for years 2007 - 2007  
 Stability Class D Neutral based on Lapse Rate  
 Elevations:: Winds 270ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 2       | 2       | 3       | 1       | 2       | 12      | 2        | 0      | 24    |
| NNE                   | 0                      | 0       | 0       | 2       | 5       | 1       | 1       | 1       | 3       | 0        | 0      | 13    |
| NE                    | 0                      | 0       | 2       | 12      | 9       | 6       | 5       | 10      | 7       | 0        | 0      | 51    |
| ENE                   | 0                      | 1       | 1       | 3       | 11      | 12      | 8       | 3       | 2       | 0        | 0      | 41    |
| E                     | 0                      | 0       | 0       | 2       | 1       | 5       | 6       | 4       | 2       | 1        | 0      | 21    |
| ESE                   | 0                      | 0       | 0       | 0       | 0       | 6       | 4       | 3       | 2       | 1        | 0      | 16    |
| SE                    | 0                      | 1       | 0       | 0       | 3       | 1       | 1       | 3       | 0       | 0        | 0      | 9     |
| SSE                   | 0                      | 0       | 2       | 3       | 4       | 4       | 3       | 1       | 0       | 0        | 0      | 17    |
| S                     | 0                      | 1       | 3       | 1       | 12      | 14      | 11      | 5       | 7       | 0        | 0      | 54    |
| SSW                   | 0                      | 0       | 0       | 2       | 3       | 5       | 12      | 9       | 4       | 2        | 0      | 37    |
| SW                    | 0                      | 0       | 2       | 3       | 6       | 7       | 1       | 3       | 4       | 0        | 0      | 26    |
| WSW                   | 0                      | 0       | 1       | 2       | 2       | 3       | 0       | 1       | 5       | 5        | 3      | 22    |
| W                     | 0                      | 0       | 1       | 1       | 8       | 13      | 16      | 14      | 47      | 31       | 25     | 156   |
| WNW                   | 0                      | 0       | 0       | 0       | 5       | 7       | 33      | 32      | 88      | 91       | 66     | 322   |
| NW                    | 0                      | 0       | 0       | 0       | 4       | 9       | 12      | 21      | 35      | 47       | 61     | 189   |
| NNW                   | 0                      | 0       | 0       | 0       | 3       | 1       | 0       | 6       | 20      | 4        | 1      | 35    |
| Tot                   | 0                      | 3       | 12      | 33      | 78      | 97      | 114     | 118     | 238     | 184      | 156    | 1033  |

Hours of Calm . . . . . 4  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 1037  
 Hours of Missing Data . . . . . 163  
 Hours in Period . . . . . 2160

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
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Table D - 3 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, January - March, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station

Period:: Months Jan - Mar for years 2007 - 2007

Stability Class E Slightly Stable based on Lapse Rate

Elevations:: Winds 270ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 1       | 1       | 6       | 5       | 1       | 6       | 14      | 3        | 0      | 37    |
| NNE                   | 0                      | 0       | 0       | 1       | 6       | 10      | 12      | 4       | 3       | 1        | 0      | 37    |
| NE                    | 0                      | 1       | 0       | 1       | 5       | 2       | 1       | 3       | 0       | 0        | 0      | 13    |
| ENE                   | 0                      | 0       | 1       | 1       | 2       | 3       | 1       | 3       | 2       | 0        | 0      | 13    |
| E                     | 0                      | 0       | 1       | 0       | 2       | 1       | 1       | 0       | 1       | 1        | 1      | 8     |
| ESE                   | 0                      | 0       | 0       | 1       | 2       | 1       | 1       | 2       | 3       | 1        | 0      | 11    |
| SE                    | 0                      | 1       | 0       | 1       | 5       | 0       | 1       | 0       | 0       | 2        | 0      | 10    |
| SSE                   | 0                      | 0       | 1       | 0       | 2       | 2       | 4       | 4       | 2       | 2        | 0      | 17    |
| S                     | 0                      | 0       | 0       | 0       | 6       | 10      | 15      | 16      | 10      | 2        | 0      | 59    |
| SSW                   | 0                      | 0       | 2       | 2       | 11      | 19      | 11      | 8       | 8       | 2        | 0      | 63    |
| SW                    | 0                      | 0       | 0       | 2       | 17      | 20      | 9       | 5       | 3       | 0        | 0      | 56    |
| WSW                   | 0                      | 0       | 1       | 2       | 8       | 10      | 6       | 6       | 5       | 1        | 0      | 39    |
| W                     | 0                      | 2       | 1       | 2       | 8       | 16      | 21      | 24      | 28      | 9        | 0      | 111   |
| WNW                   | 0                      | 0       | 0       | 2       | 6       | 11      | 19      | 19      | 26      | 4        | 6      | 93    |
| NW                    | 0                      | 0       | 0       | 0       | 1       | 10      | 5       | 6       | 5       | 0        | 0      | 27    |
| NNW                   | 0                      | 1       | 1       | 2       | 6       | 8       | 8       | 4       | 2       | 0        | 0      | 32    |
| Tot                   | 0                      | 5       | 9       | 18      | 93      | 128     | 116     | 110     | 112     | 28       | 7      | 626   |

Hours of Calm . . . . . 1  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 627  
 Hours of Missing Data . . . . . 163  
 Hours in Period . . . . . 2160

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
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Table D - 3 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, January - March, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Mar for years 2007 - 2007  
 Stability Class F Moderately Stable based on Lapse Rate  
 Elevations:: Winds 270ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          | Total |        |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|-------|--------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 |       | >10.00 |
| N                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 1       | 0        | 0     | 1      |
| NNE                   | 0                      | 0       | 1       | 0       | 0       | 1       | 0       | 0       | 1       | 0        | 0     | 3      |
| NE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0     | 0      |
| ENE                   | 0                      | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0     | 1      |
| E                     | 0                      | 0       | 0       | 0       | 1       | 0       | 1       | 0       | 0       | 0        | 0     | 2      |
| ESE                   | 0                      | 0       | 1       | 1       | 2       | 0       | 0       | 0       | 0       | 0        | 0     | 4      |
| SE                    | 0                      | 1       | 0       | 2       | 1       | 0       | 0       | 0       | 0       | 0        | 0     | 4      |
| SSE                   | 0                      | 0       | 0       | 1       | 1       | 2       | 2       | 0       | 0       | 0        | 0     | 6      |
| S                     | 0                      | 0       | 0       | 1       | 0       | 0       | 1       | 1       | 0       | 0        | 0     | 3      |
| SSW                   | 0                      | 0       | 1       | 1       | 5       | 0       | 0       | 0       | 0       | 1        | 0     | 8      |
| SW                    | 0                      | 1       | 1       | 0       | 6       | 3       | 4       | 2       | 3       | 1        | 0     | 21     |
| WSW                   | 0                      | 0       | 2       | 2       | 8       | 4       | 1       | 2       | 0       | 0        | 0     | 19     |
| W                     | 0                      | 0       | 1       | 2       | 3       | 7       | 4       | 3       | 2       | 0        | 0     | 22     |
| WNW                   | 0                      | 0       | 0       | 2       | 5       | 9       | 4       | 6       | 6       | 0        | 0     | 32     |
| NW                    | 0                      | 0       | 0       | 0       | 0       | 1       | 0       | 2       | 0       | 0        | 0     | 3      |
| NNW                   | 0                      | 0       | 0       | 0       | 1       | 2       | 0       | 0       | 0       | 0        | 0     | 3      |
| Tot                   | 0                      | 2       | 8       | 12      | 33      | 29      | 17      | 16      | 13      | 2        | 0     | 132    |

Hours of Calm . . . . . 1  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 133  
 Hours of Missing Data . . . . . 163  
 Hours in Period . . . . . 2160

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
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Table D - 3 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, January - March, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Mar for years 2007 - 2007  
 Stability Class G Extremely Stable based on Lapse Rate  
 Elevations:: Winds 270ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 0       | 0       | 2       | 0       | 0       | 0       | 0        | 0      | 2     |
| NNE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 0        | 0      | 1     |
| NE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| ENE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| E                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| ESE                   | 0                      | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| SE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SSE                   | 0                      | 0       | 0       | 2       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| S                     | 0                      | 2       | 0       | 1       | 2       | 0       | 0       | 1       | 0       | 0        | 0      | 6     |
| SSW                   | 0                      | 0       | 1       | 2       | 4       | 3       | 1       | 0       | 1       | 0        | 0      | 12    |
| SW                    | 0                      | 0       | 0       | 3       | 1       | 3       | 0       | 0       | 1       | 0        | 0      | 8     |
| WSW                   | 0                      | 0       | 2       | 0       | 1       | 1       | 0       | 0       | 0       | 0        | 0      | 4     |
| W                     | 0                      | 0       | 2       | 1       | 1       | 1       | 3       | 0       | 0       | 0        | 0      | 8     |
| WNW                   | 0                      | 1       | 1       | 0       | 2       | 1       | 5       | 0       | 2       | 0        | 0      | 12    |
| NW                    | 0                      | 0       | 1       | 0       | 1       | 2       | 0       | 0       | 0       | 0        | 0      | 4     |
| NNW                   | 0                      | 0       | 0       | 0       | 0       | 2       | 0       | 0       | 0       | 0        | 0      | 2     |
| Tot                   | 0                      | 3       | 8       | 9       | 12      | 15      | 10      | 1       | 4       | 0        | 0      | 62    |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 62  
 Hours of Missing Data . . . . . 163  
 Hours in Period . . . . . 2160

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Table D - 4 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, April - June, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Apr - Jun for years 2007 - 2007  
 All Stabilities  
 Elevations:: Winds 30ft Stability 266ft

| Wind Direction<br>Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|--------------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                          | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                        | 1                      | 24      | 10      | 16      | 31      | 29      | 8       | 4       | 2       | 0        | 0      | 125   |
| NNE                      | 1                      | 13      | 4       | 9       | 26      | 12      | 5       | 4       | 2       | 0        | 0      | 76    |
| NE                       | 0                      | 17      | 12      | 11      | 31      | 11      | 4       | 2       | 0       | 0        | 0      | 88    |
| ENE                      | 0                      | 16      | 15      | 26      | 36      | 16      | 3       | 1       | 0       | 0        | 0      | 113   |
| E                        | 0                      | 7       | 9       | 11      | 16      | 30      | 12      | 5       | 0       | 0        | 0      | 90    |
| ESE                      | 0                      | 4       | 14      | 9       | 12      | 11      | 7       | 4       | 9       | 0        | 0      | 70    |
| SE                       | 0                      | 8       | 8       | 8       | 3       | 1       | 0       | 0       | 0       | 0        | 0      | 28    |
| SSE                      | 0                      | 12      | 14      | 5       | 12      | 3       | 0       | 0       | 0       | 0        | 0      | 46    |
| S                        | 0                      | 10      | 25      | 24      | 38      | 18      | 2       | 0       | 0       | 0        | 0      | 117   |
| SSW                      | 0                      | 12      | 23      | 21      | 55      | 15      | 11      | 0       | 0       | 0        | 0      | 137   |
| SW                       | 0                      | 24      | 22      | 19      | 32      | 11      | 3       | 0       | 0       | 0        | 0      | 111   |
| WSW                      | 0                      | 38      | 33      | 17      | 21      | 8       | 1       | 0       | 0       | 0        | 0      | 118   |
| W                        | 0                      | 51      | 36      | 21      | 40      | 27      | 16      | 3       | 2       | 0        | 0      | 196   |
| WNW                      | 1                      | 63      | 46      | 26      | 47      | 24      | 26      | 18      | 19      | 3        | 0      | 273   |
| NW                       | 2                      | 50      | 33      | 19      | 51      | 47      | 46      | 51      | 33      | 23       | 6      | 361   |
| NNW                      | 1                      | 36      | 16      | 8       | 26      | 29      | 23      | 5       | 3       | 0        | 0      | 147   |
| Tot                      | 6                      | 385     | 320     | 250     | 477     | 292     | 167     | 97      | 70      | 26       | 6      | 2096  |

Hours of Calm . . . . . 75  
 Hours of Variable Direction . . . . . 1  
 Hours of Valid Data . . . . . 2172  
 Hours of Missing Data . . . . . 12  
 Hours in Period . . . . . 2184

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Table D - 4 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, April - June, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Apr - Jun for years 2007 - 2007  
 Stability Class A Extremely Unstable based on Lapse Rate  
 Elevations:: Winds 30ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 0       | 2       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| NNE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| NE                    | 0                      | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| ENE                   | 0                      | 0       | 0       | 2       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| E                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| ESE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SE                    | 0                      | 0       | 1       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| SSE                   | 0                      | 0       | 0       | 1       | 0       | 2       | 0       | 0       | 0       | 0        | 0      | 3     |
| S                     | 0                      | 0       | 0       | 2       | 2       | 7       | 0       | 0       | 0       | 0        | 0      | 11    |
| SSW                   | 0                      | 0       | 0       | 3       | 3       | 2       | 0       | 0       | 0       | 0        | 0      | 8     |
| SW                    | 0                      | 0       | 0       | 2       | 9       | 5       | 1       | 0       | 0       | 0        | 0      | 17    |
| WSW                   | 0                      | 0       | 0       | 2       | 6       | 1       | 0       | 0       | 0       | 0        | 0      | 9     |
| W                     | 0                      | 0       | 0       | 1       | 6       | 1       | 2       | 0       | 0       | 0        | 0      | 10    |
| WNW                   | 0                      | 0       | 0       | 0       | 1       | 3       | 1       | 3       | 0       | 0        | 0      | 8     |
| NW                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| NNW                   | 0                      | 0       | 0       | 0       | 2       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| Tot                   | 0                      | 0       | 1       | 14      | 32      | 21      | 4       | 3       | 0       | 0        | 0      | 75    |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 75  
 Hours of Missing Data . . . . . 12  
 Hours in Period . . . . . 2184

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
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Table D - 4 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, April - June, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Apr - Jun for years 2007 - 2007  
 Stability Class B Moderately Unstable based on Lapse Rate  
 Elevations:: Winds 30ft Stability 266ft

| Wind Direction Sector | <0.50 | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 | Total |
|-----------------------|-------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
| N                     | 0     | 0       | 0       | 2       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 3     |
| NNE                   | 0     | 0       | 0       | 1       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| NE                    | 0     | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| ENE                   | 0     | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| E                     | 0     | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| ESE                   | 0     | 0       | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| SE                    | 0     | 0       | 1       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| SSE                   | 0     | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| S                     | 0     | 0       | 2       | 2       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 5     |
| SSW                   | 0     | 0       | 0       | 0       | 3       | 1       | 1       | 0       | 0       | 0        | 0      | 5     |
| SW                    | 0     | 0       | 2       | 3       | 8       | 2       | 1       | 0       | 0       | 0        | 0      | 16    |
| WSW                   | 0     | 0       | 1       | 3       | 2       | 1       | 0       | 0       | 0       | 0        | 0      | 7     |
| W                     | 0     | 0       | 1       | 2       | 7       | 1       | 1       | 2       | 0       | 0        | 0      | 14    |
| WNW                   | 0     | 0       | 0       | 2       | 4       | 1       | 1       | 5       | 2       | 0        | 0      | 15    |
| NW                    | 0     | 0       | 0       | 0       | 3       | 3       | 3       | 2       | 0       | 0        | 0      | 11    |
| NNW                   | 0     | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| Tot                   | 0     | 0       | 8       | 17      | 31      | 9       | 7       | 9       | 2       | 0        | 0      | 83    |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 83  
 Hours of Missing Data . . . . . 12  
 Hours in Period . . . . . 2184

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 4 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, April - June, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Apr - Jun for years 2007 - 2007  
 Stability Class C Slightly Unstable based on Lapse Rate  
 Elevations:: Winds 30ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 1       | 2       | 0       | 2       | 0       | 0       | 0        | 0      | 5     |
| NNE                   | 0                      | 0       | 0       | 0       | 1       | 0       | 1       | 0       | 0       | 0        | 0      | 2     |
| NE                    | 0                      | 0       | 0       | 0       | 0       | 1       | 1       | 0       | 0       | 0        | 0      | 2     |
| ENE                   | 0                      | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| E                     | 0                      | 0       | 1       | 0       | 0       | 3       | 0       | 0       | 0       | 0        | 0      | 4     |
| ESE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SSE                   | 0                      | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| S                     | 0                      | 0       | 2       | 2       | 4       | 3       | 0       | 0       | 0       | 0        | 0      | 11    |
| SSW                   | 0                      | 0       | 1       | 1       | 6       | 1       | 2       | 0       | 0       | 0        | 0      | 11    |
| SW                    | 0                      | 0       | 0       | 5       | 4       | 0       | 1       | 0       | 0       | 0        | 0      | 10    |
| WSW                   | 0                      | 1       | 4       | 2       | 4       | 1       | 0       | 0       | 0       | 0        | 0      | 12    |
| W                     | 0                      | 0       | 0       | 1       | 3       | 0       | 2       | 0       | 0       | 0        | 0      | 6     |
| WNW                   | 0                      | 0       | 2       | 2       | 2       | 5       | 3       | 0       | 0       | 0        | 0      | 14    |
| NW                    | 0                      | 0       | 0       | 0       | 4       | 5       | 7       | 5       | 4       | 0        | 0      | 25    |
| NNW                   | 0                      | 0       | 0       | 0       | 0       | 3       | 4       | 1       | 0       | 0        | 0      | 8     |
| Tot                   | 0                      | 1       | 11      | 14      | 31      | 22      | 23      | 6       | 4       | 0        | 0      | 112   |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 112  
 Hours of Missing Data . . . . . 12  
 Hours in Period . . . . . 2184

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 4 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, April - June, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Apr - Jun for years 2007 - 2007  
 Stability Class D Neutral based on Lapse Rate  
 Elevations:: Winds 30ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 1       | 3       | 5       | 14      | 19      | 4       | 0       | 0       | 0        | 0      | 46    |
| NNE                   | 0                      | 2       | 1       | 2       | 18      | 11      | 3       | 3       | 2       | 0        | 0      | 42    |
| NE                    | 0                      | 5       | 3       | 6       | 21      | 6       | 2       | 1       | 0       | 0        | 0      | 44    |
| ENE                   | 0                      | 3       | 9       | 9       | 19      | 10      | 0       | 0       | 0       | 0        | 0      | 50    |
| E                     | 0                      | 2       | 5       | 8       | 11      | 17      | 3       | 2       | 0       | 0        | 0      | 48    |
| ESE                   | 0                      | 1       | 6       | 3       | 7       | 10      | 3       | 4       | 9       | 0        | 0      | 43    |
| SE                    | 0                      | 2       | 1       | 4       | 2       | 0       | 0       | 0       | 0       | 0        | 0      | 9     |
| SSE                   | 0                      | 2       | 6       | 3       | 2       | 0       | 0       | 0       | 0       | 0        | 0      | 13    |
| S                     | 0                      | 2       | 8       | 6       | 4       | 2       | 2       | 0       | 0       | 0        | 0      | 24    |
| SSW                   | 0                      | 5       | 4       | 3       | 16      | 5       | 4       | 0       | 0       | 0        | 0      | 37    |
| SW                    | 0                      | 1       | 10      | 6       | 9       | 2       | 0       | 0       | 0       | 0        | 0      | 28    |
| WSW                   | 0                      | 1       | 10      | 6       | 7       | 4       | 1       | 0       | 0       | 0        | 0      | 29    |
| W                     | 0                      | 4       | 3       | 6       | 9       | 16      | 7       | 1       | 2       | 0        | 0      | 48    |
| WNW                   | 0                      | 2       | 5       | 5       | 18      | 8       | 14      | 5       | 16      | 0        | 0      | 73    |
| NW                    | 0                      | 2       | 8       | 6       | 22      | 29      | 29      | 35      | 25      | 17       | 0      | 173   |
| NNW                   | 0                      | 1       | 5       | 3       | 11      | 19      | 15      | 4       | 3       | 0        | 0      | 61    |
| Tot                   | 0                      | 36      | 87      | 81      | 190     | 158     | 87      | 55      | 57      | 17       | 0      | 768   |

Hours of Calm . . . . . 2  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 770  
 Hours of Missing Data . . . . . 12  
 Hours in Period . . . . . 2184

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 4 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, April - June, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Apr - Jun for years 2007 - 2007  
 Stability Class E Slightly Stable based on Lapse Rate  
 Elevations:: Winds 30ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 8       | 5       | 6       | 11      | 10      | 2       | 4       | 2       | 0        | 0      | 48    |
| NNE                   | 0                      | 4       | 2       | 5       | 6       | 1       | 1       | 1       | 0       | 0        | 0      | 20    |
| NE                    | 0                      | 3       | 7       | 5       | 9       | 4       | 1       | 1       | 0       | 0        | 0      | 30    |
| ENE                   | 0                      | 2       | 3       | 15      | 16      | 6       | 3       | 1       | 0       | 0        | 0      | 46    |
| E                     | 0                      | 4       | 3       | 2       | 4       | 10      | 9       | 3       | 0       | 0        | 0      | 35    |
| ESE                   | 0                      | 2       | 6       | 5       | 4       | 1       | 4       | 0       | 0       | 0        | 0      | 22    |
| SE                    | 0                      | 4       | 4       | 2       | 1       | 1       | 0       | 0       | 0       | 0        | 0      | 12    |
| SSE                   | 0                      | 5       | 3       | 1       | 9       | 1       | 0       | 0       | 0       | 0        | 0      | 19    |
| S                     | 0                      | 5       | 10      | 10      | 25      | 6       | 0       | 0       | 0       | 0        | 0      | 56    |
| SSW                   | 0                      | 5       | 15      | 13      | 27      | 6       | 4       | 0       | 0       | 0        | 0      | 70    |
| SW                    | 0                      | 14      | 9       | 3       | 2       | 2       | 0       | 0       | 0       | 0        | 0      | 30    |
| WSW                   | 0                      | 22      | 15      | 4       | 2       | 1       | 0       | 0       | 0       | 0        | 0      | 44    |
| W                     | 0                      | 26      | 17      | 9       | 15      | 9       | 4       | 0       | 0       | 0        | 0      | 80    |
| WNW                   | 1                      | 17      | 20      | 13      | 22      | 7       | 7       | 5       | 1       | 3        | 0      | 96    |
| NW                    | 0                      | 9       | 9       | 10      | 22      | 10      | 7       | 9       | 4       | 6        | 6      | 92    |
| NNW                   | 0                      | 11      | 5       | 5       | 12      | 7       | 4       | 0       | 0       | 0        | 0      | 44    |
| Tot                   | 1                      | 141     | 133     | 108     | 187     | 82      | 46      | 24      | 7       | 9        | 6      | 744   |

Hours of Calm . . . . . 25  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 769  
 Hours of Missing Data . . . . . 12  
 Hours in Period . . . . . 2184

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 4 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, April - June, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Apr - Jun for years 2007 - 2007  
 Stability Class F Moderately Stable based on Lapse Rate  
 Elevations:: Winds 30ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 8       | 1       | 1       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 11    |
| NNE                   | 1                      | 4       | 1       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 7     |
| NE                    | 0                      | 6       | 2       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 8     |
| ENE                   | 0                      | 9       | 3       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 12    |
| E                     | 0                      | 1       | 0       | 1       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 3     |
| ESE                   | 0                      | 1       | 1       | 0       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 3     |
| SE                    | 0                      | 2       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 3     |
| SSE                   | 0                      | 5       | 3       | 0       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 9     |
| S                     | 0                      | 3       | 3       | 2       | 2       | 0       | 0       | 0       | 0       | 0        | 0      | 10    |
| SSW                   | 0                      | 2       | 3       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 6     |
| SW                    | 0                      | 5       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 6     |
| WSW                   | 0                      | 10      | 3       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 13    |
| W                     | 0                      | 12      | 6       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 19    |
| WNW                   | 0                      | 22      | 11      | 4       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 37    |
| NW                    | 2                      | 15      | 9       | 3       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 29    |
| NNW                   | 1                      | 16      | 3       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 20    |
| Tot                   | 4                      | 121     | 51      | 14      | 6       | 0       | 0       | 0       | 0       | 0        | 0      | 196   |

Hours of Calm . . . . . 15  
 Hours of Variable Direction . . . . . 1  
 Hours of Valid Data . . . . . 212  
 Hours of Missing Data . . . . . 12  
 Hours in Period . . . . . 2184

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 4 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, April - June, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Apr - Jun for years 2007 - 2007  
 Stability Class G Extremely Stable based on Lapse Rate  
 Elevations:: Winds 30ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 1                      | 7       | 1       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 10    |
| NNE                   | 0                      | 3       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 3     |
| NE                    | 0                      | 3       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 3     |
| ENE                   | 0                      | 2       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| E                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| ESE                   | 0                      | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| SE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SSE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| S                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SSW                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SW                    | 0                      | 4       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 4     |
| WSW                   | 0                      | 4       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 4     |
| W                     | 0                      | 9       | 9       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 19    |
| WNW                   | 0                      | 22      | 8       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 30    |
| NW                    | 0                      | 24      | 7       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 31    |
| NNW                   | 0                      | 8       | 3       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 11    |
| Tot                   | 1                      | 86      | 29      | 2       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 118   |

Hours of Calm . . . . . 33  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 151  
 Hours of Missing Data . . . . . 12  
 Hours in Period . . . . . 2184

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
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Table D - 5 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, April - June, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Apr - Jun for years 2007 - 2007  
 All Stabilities  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 6       | 7       | 8       | 27      | 26      | 23      | 16      | 10      | 2        | 0      | 125   |
| NNE                   | 0                      | 4       | 9       | 4       | 22      | 23      | 16      | 7       | 8       | 2        | 0      | 95    |
| NE                    | 0                      | 5       | 7       | 10      | 27      | 26      | 11      | 3       | 5       | 0        | 0      | 94    |
| ENE                   | 0                      | 0       | 10      | 8       | 28      | 23      | 9       | 5       | 3       | 0        | 0      | 86    |
| E                     | 0                      | 5       | 10      | 7       | 19      | 24      | 12      | 12      | 8       | 1        | 0      | 98    |
| ESE                   | 0                      | 7       | 7       | 4       | 9       | 11      | 14      | 14      | 13      | 9        | 0      | 88    |
| SE                    | 0                      | 2       | 10      | 10      | 4       | 5       | 4       | 1       | 2       | 0        | 0      | 38    |
| SSE                   | 0                      | 7       | 4       | 5       | 7       | 8       | 6       | 0       | 0       | 0        | 0      | 37    |
| S                     | 0                      | 6       | 6       | 19      | 20      | 18      | 28      | 14      | 5       | 0        | 0      | 116   |
| SSW                   | 0                      | 5       | 12      | 4       | 43      | 23      | 46      | 16      | 12      | 5        | 0      | 166   |
| SW                    | 0                      | 6       | 11      | 13      | 37      | 31      | 19      | 5       | 10      | 4        | 0      | 136   |
| WSW                   | 0                      | 3       | 12      | 19      | 40      | 17      | 9       | 7       | 8       | 4        | 0      | 119   |
| W                     | 0                      | 4       | 17      | 21      | 35      | 36      | 34      | 28      | 29      | 8        | 1      | 213   |
| WNW                   | 0                      | 1       | 19      | 20      | 59      | 52      | 58      | 20      | 39      | 31       | 18     | 317   |
| NW                    | 0                      | 6       | 19      | 14      | 53      | 29      | 44      | 24      | 51      | 21       | 18     | 279   |
| NNW                   | 0                      | 7       | 13      | 14      | 21      | 24      | 22      | 22      | 28      | 4        | 3      | 158   |
| Tot                   | 0                      | 74      | 173     | 180     | 451     | 376     | 355     | 194     | 231     | 91       | 40     | 2165  |

Hours of Calm . . . . . 8  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 2173  
 Hours of Missing Data . . . . . 11  
 Hours in Period . . . . . 2184

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 5 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, April - June, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Apr - Jun for years 2007 - 2007  
 Stability Class A Extremely Unstable based on Lapse Rate  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 0       | 3       | 3       | 1       | 3       | 0       | 0        | 0      | 10    |
| NNE                   | 0                      | 0       | 1       | 1       | 3       | 1       | 0       | 0       | 0       | 0        | 0      | 6     |
| NE                    | 0                      | 0       | 0       | 0       | 1       | 1       | 0       | 0       | 0       | 0        | 0      | 2     |
| ENE                   | 0                      | 0       | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| E                     | 0                      | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| ESE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SE                    | 0                      | 0       | 0       | 1       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| SSE                   | 0                      | 0       | 1       | 0       | 0       | 0       | 2       | 0       | 0       | 0        | 0      | 3     |
| S                     | 0                      | 0       | 2       | 5       | 3       | 0       | 7       | 2       | 2       | 0        | 0      | 21    |
| SSW                   | 0                      | 0       | 1       | 0       | 9       | 5       | 10      | 0       | 1       | 0        | 0      | 26    |
| SW                    | 0                      | 1       | 1       | 1       | 9       | 13      | 7       | 2       | 6       | 3        | 0      | 43    |
| WSW                   | 0                      | 0       | 1       | 4       | 8       | 9       | 5       | 3       | 3       | 1        | 0      | 34    |
| W                     | 0                      | 0       | 1       | 1       | 10      | 8       | 9       | 8       | 6       | 4        | 0      | 47    |
| WNW                   | 0                      | 0       | 2       | 2       | 1       | 3       | 4       | 2       | 11      | 5        | 0      | 30    |
| NW                    | 0                      | 0       | 1       | 0       | 5       | 2       | 4       | 8       | 6       | 1        | 0      | 27    |
| NNW                   | 0                      | 0       | 0       | 0       | 0       | 4       | 1       | 2       | 1       | 0        | 0      | 8     |
| Tot                   | 0                      | 1       | 12      | 16      | 53      | 49      | 50      | 30      | 36      | 14       | 0      | 261   |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 261  
 Hours of Missing Data . . . . . 11  
 Hours in Period . . . . . 2184

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 5 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, April - June, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Apr - Jun for years 2007 - 2007  
 Stability Class B Moderately Unstable based on Lapse Rate  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 1       | 0        | 0      | 1     |
| NNE                   | 0                      | 0       | 0       | 0       | 1       | 0       | 0       | 1       | 1       | 0        | 0      | 3     |
| NE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 1       | 0        | 0      | 1     |
| ENE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| E                     | 0                      | 0       | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 0        | 0      | 1     |
| ESE                   | 0                      | 0       | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| SE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SSE                   | 0                      | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| S                     | 0                      | 0       | 1       | 0       | 1       | 2       | 1       | 0       | 0       | 0        | 0      | 5     |
| SSW                   | 0                      | 1       | 1       | 0       | 1       | 1       | 3       | 1       | 0       | 1        | 0      | 9     |
| SW                    | 0                      | 0       | 1       | 1       | 2       | 3       | 2       | 1       | 0       | 0        | 0      | 10    |
| WSW                   | 0                      | 0       | 1       | 4       | 1       | 0       | 0       | 1       | 1       | 0        | 0      | 8     |
| W                     | 0                      | 0       | 1       | 1       | 1       | 0       | 1       | 1       | 7       | 2        | 1      | 15    |
| WNW                   | 0                      | 0       | 1       | 1       | 1       | 3       | 2       | 1       | 1       | 2        | 0      | 12    |
| NW                    | 0                      | 0       | 0       | 0       | 0       | 2       | 2       | 3       | 9       | 3        | 0      | 19    |
| NNW                   | 0                      | 0       | 1       | 0       | 1       | 1       | 0       | 4       | 2       | 0        | 0      | 9     |
| Tot                   | 0                      | 2       | 7       | 8       | 9       | 12      | 12      | 13      | 23      | 8        | 1      | 95    |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 95  
 Hours of Missing Data . . . . . 11  
 Hours in Period . . . . . 2184

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 5 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, April - June, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Apr - Jun for years 2007 - 2007  
 Stability Class C Slightly Unstable based on Lapse Rate  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 0       | 3       | 2       | 6       | 2       | 0       | 0        | 0      | 13    |
| NNE                   | 0                      | 0       | 0       | 0       | 1       | 1       | 3       | 0       | 0       | 0        | 0      | 5     |
| NE                    | 0                      | 0       | 1       | 0       | 5       | 4       | 2       | 2       | 1       | 0        | 0      | 15    |
| ENE                   | 0                      | 0       | 1       | 1       | 0       | 2       | 1       | 0       | 0       | 0        | 0      | 5     |
| E                     | 0                      | 0       | 0       | 0       | 1       | 2       | 1       | 0       | 0       | 0        | 0      | 4     |
| ESE                   | 0                      | 0       | 0       | 0       | 2       | 0       | 0       | 0       | 0       | 2        | 0      | 4     |
| SE                    | 0                      | 0       | 1       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| SSE                   | 0                      | 1       | 0       | 0       | 1       | 1       | 0       | 0       | 0       | 0        | 0      | 3     |
| S                     | 0                      | 0       | 0       | 3       | 2       | 0       | 0       | 0       | 0       | 0        | 0      | 5     |
| SSW                   | 0                      | 0       | 1       | 1       | 0       | 1       | 2       | 0       | 2       | 0        | 0      | 7     |
| SW                    | 0                      | 0       | 0       | 0       | 1       | 1       | 3       | 0       | 0       | 0        | 0      | 5     |
| WSW                   | 0                      | 0       | 1       | 0       | 1       | 0       | 2       | 0       | 1       | 1        | 0      | 6     |
| W                     | 0                      | 0       | 0       | 0       | 2       | 1       | 3       | 0       | 1       | 1        | 0      | 8     |
| WNW                   | 0                      | 0       | 0       | 0       | 5       | 0       | 3       | 0       | 2       | 3        | 3      | 16    |
| NW                    | 0                      | 0       | 0       | 0       | 0       | 3       | 3       | 1       | 13      | 5        | 0      | 25    |
| NNW                   | 0                      | 1       | 0       | 0       | 0       | 0       | 3       | 5       | 6       | 0        | 0      | 15    |
| Tot                   | 0                      | 2       | 5       | 6       | 24      | 18      | 32      | 10      | 26      | 12       | 3      | 138   |

Hours of Calm . . . . . 1  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 139  
 Hours of Missing Data . . . . . 11  
 Hours in Period . . . . . 2184

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 5 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, April - June, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Apr - Jun for years 2007 - 2007  
 Stability Class D Neutral based on Lapse Rate  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 2       | 1       | 9       | 8       | 11      | 5       | 2       | 1        | 0      | 39    |
| NNE                   | 0                      | 2       | 2       | 1       | 7       | 10      | 8       | 3       | 2       | 2        | 0      | 37    |
| NE                    | 0                      | 2       | 2       | 3       | 12      | 12      | 5       | 0       | 1       | 0        | 0      | 37    |
| ENE                   | 0                      | 0       | 4       | 4       | 12      | 11      | 3       | 0       | 0       | 0        | 0      | 34    |
| E                     | 0                      | 2       | 4       | 6       | 14      | 12      | 9       | 5       | 0       | 0        | 0      | 52    |
| ESE                   | 0                      | 0       | 2       | 1       | 2       | 6       | 11      | 7       | 10      | 7        | 0      | 46    |
| SE                    | 0                      | 0       | 3       | 3       | 0       | 0       | 2       | 0       | 1       | 0        | 0      | 9     |
| SSE                   | 0                      | 1       | 1       | 4       | 2       | 1       | 0       | 0       | 0       | 0        | 0      | 9     |
| S                     | 0                      | 0       | 2       | 7       | 2       | 0       | 1       | 2       | 2       | 0        | 0      | 16    |
| SSW                   | 0                      | 1       | 6       | 1       | 5       | 3       | 5       | 5       | 1       | 2        | 0      | 29    |
| SW                    | 0                      | 3       | 2       | 2       | 7       | 0       | 4       | 2       | 3       | 0        | 0      | 23    |
| WSW                   | 0                      | 1       | 1       | 1       | 11      | 3       | 0       | 3       | 2       | 2        | 0      | 24    |
| W                     | 0                      | 0       | 4       | 1       | 3       | 6       | 8       | 8       | 12      | 1        | 0      | 43    |
| WNW                   | 0                      | 0       | 3       | 4       | 8       | 10      | 8       | 7       | 19      | 18       | 3      | 80    |
| NW                    | 0                      | 3       | 4       | 4       | 7       | 6       | 12      | 10      | 17      | 11       | 16     | 90    |
| NNW                   | 0                      | 3       | 2       | 2       | 3       | 7       | 8       | 6       | 13      | 3        | 3      | 50    |
| Tot.                  | 0                      | 18      | 44      | 45      | 104     | 95      | 95      | 63      | 85      | 47       | 22     | 618   |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 618  
 Hours of Missing Data . . . . . 11  
 Hours in Period . . . . . 2184

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 5 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, April - June, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Apr - Jun for years 2007 - 2007  
 Stability Class E Slightly Stable based on Lapse Rate  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 2       | 3       | 1       | 3       | 7       | 5       | 6       | 7       | 1        | 0      | 35    |
| NNE                   | 0                      | 0       | 2       | 1       | 7       | 5       | 2       | 3       | 5       | 0        | 0      | 25    |
| NE                    | 0                      | 2       | 3       | 4       | 4       | 9       | 4       | 1       | 2       | 0        | 0      | 29    |
| ENE                   | 0                      | 0       | 2       | 1       | 11      | 10      | 5       | 5       | 3       | 0        | 0      | 37    |
| E                     | 0                      | 0       | 2       | 1       | 3       | 7       | 1       | 7       | 8       | 1        | 0      | 30    |
| ESE                   | 0                      | 1       | 1       | 1       | 3       | 4       | 2       | 6       | 3       | 0        | 0      | 21    |
| SE                    | 0                      | 1       | 4       | 4       | 3       | 3       | 2       | 1       | 1       | 0        | 0      | 19    |
| SSE                   | 0                      | 2       | 1       | 0       | 2       | 4       | 4       | 0       | 0       | 0        | 0      | 13    |
| S                     | 0                      | 3       | 1       | 2       | 7       | 15      | 15      | 10      | 0       | 0        | 0      | 53    |
| SSW                   | 0                      | 1       | 0       | 1       | 17      | 10      | 18      | 9       | 8       | 2        | 0      | 66    |
| SW                    | 0                      | 1       | 4       | 4       | 11      | 10      | 1       | 0       | 1       | 1        | 0      | 33    |
| WSW                   | 0                      | 1       | 4       | 6       | 6       | 5       | 1       | 0       | 1       | 0        | 0      | 24    |
| W                     | 0                      | 3       | 7       | 3       | 8       | 12      | 8       | 11      | 3       | 0        | 0      | 55    |
| WNW                   | 0                      | 1       | 10      | 7       | 17      | 11      | 23      | 10      | 6       | 3        | 12     | 100   |
| NW                    | 0                      | 3       | 5       | 3       | 10      | 5       | 18      | 2       | 5       | 1        | 2      | 54    |
| NNW                   | 0                      | 2       | 4       | 3       | 6       | 3       | 8       | 5       | 6       | 1        | 0      | 38    |
| Tot                   | 0                      | 23      | 53      | 42      | 118     | 120     | 117     | 76      | 59      | 10       | 14     | 632   |

Hours of Calm . . . . . 2  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 634  
 Hours of Missing Data . . . . . 11  
 Hours in Period . . . . . 2184

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 5 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, April - June, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Apr - Jun for years 2007 - 2007  
 Stability Class F Moderately Stable based on Lapse Rate  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 1       | 1       | 1       | 4       | 2       | 0       | 0       | 0       | 0        | 0      | 9     |
| NNE                   | 0                      | 0       | 0       | 0       | 1       | 2       | 1       | 0       | 0       | 0        | 0      | 4     |
| NE                    | 0                      | 0       | 0       | 2       | 3       | 0       | 0       | 0       | 0       | 0        | 0      | 5     |
| ENE                   | 0                      | 0       | 3       | 1       | 3       | 0       | 0       | 0       | 0       | 0        | 0      | 7     |
| E                     | 0                      | 2       | 2       | 0       | 1       | 3       | 0       | 0       | 0       | 0        | 0      | 8     |
| ESE                   | 0                      | 3       | 2       | 0       | 1       | 1       | 1       | 1       | 0       | 0        | 0      | 9     |
| SE                    | 0                      | 1       | 1       | 1       | 0       | 2       | 0       | 0       | 0       | 0        | 0      | 5     |
| SSE                   | 0                      | 1       | 0       | 1       | 2       | 2       | 0       | 0       | 0       | 0        | 0      | 6     |
| S                     | 0                      | 1       | 0       | 2       | 3       | 1       | 4       | 0       | 1       | 0        | 0      | 12    |
| SSW                   | 0                      | 2       | 3       | 1       | 9       | 3       | 6       | 1       | 0       | 0        | 0      | 25    |
| SW                    | 0                      | 0       | 2       | 5       | 5       | 3       | 2       | 0       | 0       | 0        | 0      | 17    |
| WSW                   | 0                      | 0       | 1       | 2       | 6       | 0       | 1       | 0       | 0       | 0        | 0      | 10    |
| W                     | 0                      | 0       | 3       | 5       | 7       | 7       | 3       | 0       | 0       | 0        | 0      | 25    |
| WNW                   | 0                      | 0       | 0       | 0       | 15      | 13      | 11      | 0       | 0       | 0        | 0      | 39    |
| NW                    | 0                      | 0       | 4       | 2       | 9       | 5       | 1       | 0       | 1       | 0        | 0      | 22    |
| NNW                   | 0                      | 1       | 1       | 4       | 1       | 2       | 2       | 0       | 0       | 0        | 0      | 11    |
| Tot                   | 0                      | 12      | 23      | 27      | 70      | 46      | 32      | 2       | 2       | 0        | 0      | 214   |

Hours of Calm . . . . . 2  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 216  
 Hours of Missing Data . . . . . 11  
 Hours in Period . . . . . 2184

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 5 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, April - June, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Apr - Jun for years 2007 - 2007  
 Stability Class G Extremely Stable based on Lapse Rate  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 3       | 1       | 5       | 5       | 4       | 0       | 0       | 0       | 0        | 0      | 18    |
| NNE                   | 0                      | 2       | 4       | 1       | 2       | 4       | 2       | 0       | 0       | 0        | 0      | 15    |
| NE                    | 0                      | 1       | 1       | 1       | 2       | 0       | 0       | 0       | 0       | 0        | 0      | 5     |
| ENE                   | 0                      | 0       | 0       | 0       | 2       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| E                     | 0                      | 1       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| ESE                   | 0                      | 3       | 2       | 1       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 7     |
| SE                    | 0                      | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| SSE                   | 0                      | 1       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| S                     | 0                      | 2       | 0       | 0       | 2       | 0       | 0       | 0       | 0       | 0        | 0      | 4     |
| SSW                   | 0                      | 0       | 0       | 0       | 2       | 0       | 2       | 0       | 0       | 0        | 0      | 4     |
| SW                    | 0                      | 1       | 1       | 0       | 2       | 1       | 0       | 0       | 0       | 0        | 0      | 5     |
| WSW                   | 0                      | 1       | 3       | 2       | 7       | 0       | 0       | 0       | 0       | 0        | 0      | 13    |
| W                     | 0                      | 1       | 1       | 10      | 4       | 2       | 2       | 0       | 0       | 0        | 0      | 20    |
| WNW                   | 0                      | 0       | 3       | 6       | 12      | 12      | 7       | 0       | 0       | 0        | 0      | 40    |
| NW                    | 0                      | 0       | 5       | 5       | 22      | 6       | 4       | 0       | 0       | 0        | 0      | 42    |
| NNW                   | 0                      | 0       | 5       | 5       | 10      | 7       | 0       | 0       | 0       | 0        | 0      | 27    |
| Tot                   | 0                      | 16      | 29      | 36      | 73      | 36      | 17      | 0       | 0       | 0        | 0      | 207   |

Hours of Calm . . . . . 3  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 210  
 Hours of Missing Data . . . . . 11  
 Hours in Period . . . . . 2184

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 6 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, April - June, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Apr - Jun for years 2007 - 2007  
 All Stabilities  
 Elevations:: Winds 270ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 2       | 9       | 10      | 34      | 25      | 22      | 18      | 17      | 9        | 1      | 147   |
| NNE                   | 0                      | 5       | 6       | 6       | 15      | 16      | 23      | 9       | 9       | 6        | 0      | 95    |
| NE                    | 0                      | 7       | 9       | 9       | 26      | 23      | 16      | 6       | 3       | 1        | 0      | 100   |
| ENE                   | 0                      | 4       | 8       | 4       | 18      | 29      | 15      | 9       | 8       | 0        | 0      | 95    |
| E                     | 0                      | 3       | 7       | 9       | 9       | 12      | 18      | 11      | 12      | 12       | 0      | 93    |
| ESE                   | 0                      | 5       | 7       | 4       | 6       | 3       | 6       | 8       | 11      | 10       | 1      | 61    |
| SE                    | 1                      | 5       | 5       | 13      | 9       | 1       | 5       | 1       | 2       | 0        | 0      | 42    |
| SSE                   | 0                      | 3       | 6       | 8       | 6       | 7       | 11      | 6       | 5       | 0        | 0      | 52    |
| S                     | 0                      | 3       | 10      | 14      | 16      | 20      | 26      | 32      | 9       | 0        | 0      | 130   |
| SSW                   | 0                      | 4       | 10      | 11      | 27      | 24      | 33      | 37      | 11      | 19       | 0      | 176   |
| SW                    | 1                      | 10      | 6       | 11      | 42      | 24      | 24      | 11      | 7       | 4        | 0      | 140   |
| WSW                   | 0                      | 1       | 11      | 15      | 37      | 26      | 17      | 11      | 17      | 5        | 0      | 140   |
| W                     | 0                      | 6       | 8       | 11      | 35      | 29      | 26      | 39      | 51      | 26       | 13     | 244   |
| WNW                   | 0                      | 3       | 10      | 12      | 40      | 46      | 44      | 46      | 47      | 20       | 35     | 303   |
| NW                    | 0                      | 5       | 11      | 14      | 27      | 24      | 24      | 28      | 41      | 18       | 15     | 207   |
| NNW                   | 0                      | 5       | 7       | 9       | 22      | 20      | 24      | 30      | 21      | 3        | 2      | 143   |
| Tot                   | 2                      | 71      | 130     | 160     | 369     | 329     | 334     | 302     | 271     | 133      | 67     | 2168  |

Hours of Calm . . . . . 6  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 2174  
 Hours of Missing Data . . . . . 10  
 Hours in Period . . . . . 2184

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 6 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, April - June, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Apr - Jun for years 2007 - 2007  
 Stability Class A Extremely Unstable based on Lapse Rate  
 Elevations:: Winds 270ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 0       | 1       | 1       | 0       | 0       | 0       | 0        | 0      | 2     |
| NNE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| NE                    | 0                      | 0       | 0       | 1       | 0       | 1       | 0       | 0       | 0       | 0        | 0      | 2     |
| ENE                   | 0                      | 0       | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| E                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| ESE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SE                    | 0                      | 0       | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| SSE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 2       | 0       | 0       | 0        | 0      | 2     |
| S                     | 0                      | 0       | 0       | 3       | 1       | 0       | 5       | 3       | 2       | 0        | 0      | 14    |
| SSW                   | 0                      | 0       | 0       | 0       | 3       | 2       | 5       | 0       | 0       | 0        | 0      | 10    |
| SW                    | 0                      | 0       | 0       | 0       | 2       | 2       | 5       | 5       | 3       | 2        | 0      | 19    |
| WSW                   | 0                      | 0       | 0       | 0       | 1       | 4       | 0       | 1       | 0       | 0        | 0      | 6     |
| W                     | 0                      | 0       | 0       | 0       | 1       | 4       | 1       | 2       | 6       | 2        | 0      | 16    |
| WNW                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| NW                    | 0                      | 0       | 0       | 0       | 1       | 1       | 0       | 0       | 0       | 0        | 0      | 2     |
| NNW                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| Tot                   | 0                      | 0       | 0       | 6       | 10      | 15      | 18      | 11      | 11      | 4        | 0      | 75    |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 75  
 Hours of Missing Data . . . . . 10  
 Hours in Period . . . . . 2184

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
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Table D - 6 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, April - June, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Apr - Jun for years 2007 - 2007  
 Stability Class B Moderately Unstable based on Lapse Rate  
 Elevations:: Winds 270ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 1       | 3       | 1       | 0       | 0       | 0       | 0        | 0      | 5     |
| NNE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| NE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| ENE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| E                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| ESE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SE                    | 0                      | 0       | 0       | 1       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| SSE                   | 0                      | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| S                     | 0                      | 0       | 2       | 0       | 2       | 1       | 1       | 0       | 0       | 0        | 0      | 6     |
| SSW                   | 0                      | 0       | 2       | 0       | 1       | 1       | 2       | 1       | 0       | 3        | 0      | 10    |
| SW                    | 0                      | 0       | 0       | 0       | 6       | 6       | 2       | 0       | 2       | 0        | 0      | 16    |
| WSW                   | 0                      | 0       | 1       | 1       | 3       | 2       | 2       | 1       | 2       | 2        | 0      | 14    |
| W                     | 0                      | 0       | 0       | 0       | 4       | 1       | 2       | 1       | 1       | 4        | 3      | 16    |
| WNW                   | 0                      | 0       | 0       | 0       | 2       | 0       | 0       | 1       | 6       | 0        | 0      | 9     |
| NW                    | 0                      | 0       | 0       | 0       | 0       | 2       | 1       | 0       | 0       | 0        | 0      | 3     |
| NNW                   | 0                      | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0        | 0      | 1     |
| Tot                   | 0                      | 0       | 6       | 3       | 22      | 15      | 10      | 4       | 11      | 9        | 3      | 83    |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 83  
 Hours of Missing Data . . . . . 10  
 Hours in Period . . . . . 2184

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
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Table D - 6 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, April - June, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Apr - Jun for years 2007 - 2007  
 Stability Class C Slightly Unstable based on Lapse Rate  
 Elevations:: Winds 270ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 0       | 0       | 1       | 1       | 0       | 3       | 0        | 0      | 5     |
| NNE                   | 0                      | 0       | 0       | 0       | 2       | 0       | 0       | 1       | 0       | 0        | 0      | 3     |
| NE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 1       | 0        | 0      | 1     |
| ENE                   | 0                      | 0       | 0       | 0       | 0       | 1       | 1       | 0       | 0       | 0        | 0      | 2     |
| E                     | 0                      | 0       | 1       | 0       | 0       | 0       | 2       | 0       | 0       | 0        | 0      | 3     |
| ESE                   | 0                      | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| SE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SSE                   | 0                      | 0       | 1       | 0       | 1       | 0       | 1       | 0       | 0       | 0        | 0      | 3     |
| S                     | 0                      | 0       | 2       | 0       | 4       | 1       | 3       | 3       | 0       | 0        | 0      | 13    |
| SSW                   | 0                      | 0       | 0       | 0       | 2       | 1       | 3       | 0       | 0       | 3        | 0      | 9     |
| SW                    | 0                      | 0       | 0       | 2       | 3       | 4       | 1       | 1       | 0       | 0        | 0      | 11    |
| WSW                   | 0                      | 0       | 1       | 2       | 3       | 1       | 2       | 1       | 2       | 0        | 0      | 12    |
| W                     | 0                      | 0       | 1       | 1       | 1       | 0       | 2       | 2       | 6       | 0        | 0      | 13    |
| WNW                   | 0                      | 0       | 0       | 1       | 0       | 1       | 2       | 5       | 6       | 4        | 0      | 19    |
| NW                    | 0                      | 0       | 0       | 0       | 2       | 2       | 1       | 2       | 2       | 0        | 0      | 9     |
| NNW                   | 0                      | 0       | 0       | 0       | 1       | 0       | 1       | 4       | 2       | 0        | 0      | 8     |
| Tot                   | 0                      | 0       | 7       | 6       | 19      | 12      | 20      | 19      | 22      | 7        | 0      | 112   |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 112  
 Hours of Missing Data . . . . . 10  
 Hours in Period . . . . . 2184

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
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Table D - 6 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, April - June, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Apr - Jun for years 2007 - 2007  
 Stability Class D Neutral based on Lapse Rate  
 Elevations:: Winds 270ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 1       | 3       | 1       | 10      | 7       | 10      | 11      | 5       | 0        | 0      | 48    |
| NNE                   | 0                      | 4       | 3       | 1       | 8       | 11      | 11      | 5       | 5       | 5        | 0      | 53    |
| NE                    | 0                      | 1       | 6       | 4       | 13      | 14      | 7       | 2       | 0       | 0        | 0      | 47    |
| ENE                   | 0                      | 1       | 4       | 3       | 12      | 14      | 8       | 4       | 0       | 0        | 0      | 46    |
| E                     | 0                      | 2       | 5       | 7       | 6       | 5       | 10      | 8       | 3       | 4        | 0      | 50    |
| ESE                   | 0                      | 0       | 1       | 2       | 3       | 1       | 4       | 5       | 4       | 10       | 1      | 31    |
| SE                    | 0                      | 1       | 1       | 4       | 3       | 0       | 2       | 0       | 1       | 0        | 0      | 12    |
| SSE                   | 0                      | 1       | 1       | 6       | 2       | 1       | 2       | 0       | 3       | 0        | 0      | 16    |
| S                     | 0                      | 1       | 3       | 6       | 4       | 1       | 2       | 1       | 1       | 0        | 0      | 19    |
| SSW                   | 0                      | 3       | 4       | 4       | 5       | 3       | 6       | 14      | 6       | 3        | 0      | 48    |
| SW                    | 1                      | 5       | 3       | 3       | 12      | 2       | 5       | 3       | 2       | 2        | 0      | 38    |
| WSW                   | 0                      | 0       | 2       | 2       | 7       | 2       | 2       | 4       | 10      | 3        | 0      | 32    |
| W                     | 0                      | 1       | 1       | 2       | 7       | 10      | 10      | 10      | 16      | 14       | 10     | 81    |
| WNW                   | 0                      | 0       | 1       | 4       | 6       | 9       | 14      | 9       | 29      | 9        | 18     | 99    |
| NW                    | 0                      | 3       | 1       | 2       | 7       | 7       | 8       | 9       | 31      | 13       | 12     | 93    |
| NNW                   | 0                      | 1       | 2       | 1       | 6       | 6       | 10      | 16      | 11      | 2        | 2      | 57    |
| Tot                   | 1                      | 25      | 41      | 52      | 111     | 93      | 111     | 101     | 127     | 65       | 43     | 770   |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 770  
 Hours of Missing Data . . . . . 10  
 Hours in Period . . . . . 2184

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Table D - 6 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, April - June, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Apr - Jun for years 2007 - 2007  
 Stability Class E Slightly Stable based on Lapse Rate  
 Elevations:: Winds 270ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 2       | 3       | 6       | 6       | 5       | 6       | 9       | 9        | 1      | 47    |
| NNE                   | 0                      | 1       | 2       | 4       | 1       | 3       | 8       | 1       | 3       | 1        | 0      | 24    |
| NE                    | 0                      | 0       | 2       | 3       | 8       | 6       | 9       | 4       | 2       | 1        | 0      | 35    |
| ENE                   | 0                      | 1       | 2       | 0       | 4       | 14      | 6       | 5       | 8       | 0        | 0      | 40    |
| E                     | 0                      | 1       | 1       | 2       | 1       | 4       | 6       | 3       | 9       | 8        | 0      | 35    |
| ESE                   | 0                      | 1       | 3       | 0       | 3       | 2       | 1       | 2       | 7       | 0        | 0      | 19    |
| SE                    | 1                      | 4       | 2       | 5       | 5       | 1       | 2       | 1       | 1       | 0        | 0      | 22    |
| SSE                   | 0                      | 0       | 1       | 1       | 3       | 5       | 6       | 6       | 2       | 0        | 0      | 24    |
| S                     | 0                      | 0       | 2       | 2       | 4       | 16      | 13      | 21      | 6       | 0        | 0      | 64    |
| SSW                   | 0                      | 0       | 3       | 3       | 10      | 13      | 15      | 17      | 5       | 10       | 0      | 76    |
| SW                    | 0                      | 2       | 2       | 3       | 15      | 7       | 8       | 1       | 0       | 0        | 0      | 38    |
| WSW                   | 0                      | 1       | 5       | 3       | 14      | 11      | 10      | 3       | 3       | 0        | 0      | 50    |
| W                     | 0                      | 3       | 4       | 6       | 6       | 5       | 9       | 20      | 22      | 6        | 0      | 81    |
| WNW                   | 0                      | 1       | 4       | 4       | 22      | 19      | 18      | 17      | 5       | 7        | 17     | 114   |
| NW                    | 0                      | 0       | 7       | 7       | 3       | 4       | 5       | 15      | 8       | 5        | 3      | 57    |
| NNW                   | 0                      | 2       | 2       | 3       | 4       | 9       | 5       | 7       | 8       | 1        | 0      | 41    |
| Tot                   | 1                      | 17      | 44      | 49      | 109     | 125     | 126     | 129     | 98      | 48       | 21     | 767   |

Hours of Calm . . . . . 3  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 770  
 Hours of Missing Data . . . . . 10  
 Hours in Period . . . . . 2184

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Table D - 6 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, April - June, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Apr - Jun for years 2007 - 2007  
 Stability Class F Moderately Stable based on Lapse Rate  
 Elevations:: Winds 270ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 3       | 6       | 6       | 4       | 1       | 0       | 0        | 0      | 20    |
| NNE                   | 0                      | 0       | 0       | 1       | 2       | 0       | 3       | 0       | 0       | 0        | 0      | 6     |
| NE                    | 0                      | 1       | 0       | 1       | 4       | 2       | 0       | 0       | 0       | 0        | 0      | 8     |
| ENE                   | 0                      | 2       | 1       | 0       | 2       | 0       | 0       | 0       | 0       | 0        | 0      | 5     |
| E                     | 0                      | 0       | 0       | 0       | 2       | 3       | 0       | 0       | 0       | 0        | 0      | 5     |
| ESE                   | 0                      | 3       | 1       | 1       | 0       | 0       | 1       | 1       | 0       | 0        | 0      | 7     |
| SE                    | 0                      | 0       | 2       | 2       | 0       | 0       | 1       | 0       | 0       | 0        | 0      | 5     |
| SSE                   | 0                      | 1       | 2       | 1       | 0       | 1       | 0       | 0       | 0       | 0        | 0      | 5     |
| S                     | 0                      | 2       | 1       | 2       | 1       | 1       | 2       | 4       | 0       | 0        | 0      | 13    |
| SSW                   | 0                      | 1       | 1       | 4       | 5       | 4       | 2       | 5       | 0       | 0        | 0      | 22    |
| SW                    | 0                      | 1       | 1       | 3       | 3       | 3       | 1       | 1       | 0       | 0        | 0      | 13    |
| WSW                   | 0                      | 0       | 2       | 1       | 3       | 6       | 1       | 1       | 0       | 0        | 0      | 14    |
| W                     | 0                      | 2       | 0       | 2       | 9       | 5       | 0       | 2       | 0       | 0        | 0      | 20    |
| WNW                   | 0                      | 1       | 4       | 0       | 4       | 13      | 8       | 9       | 0       | 0        | 0      | 39    |
| NW                    | 0                      | 0       | 0       | 1       | 4       | 8       | 3       | 1       | 0       | 0        | 0      | 17    |
| NNW                   | 0                      | 2       | 0       | 1       | 5       | 3       | 2       | 1       | 0       | 0        | 0      | 14    |
| Tot                   | 0                      | 16      | 15      | 23      | 50      | 55      | 28      | 26      | 0       | 0        | 0      | 213   |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 213  
 Hours of Missing Data . . . . . 10  
 Hours in Period . . . . . 2184

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Table D - 6 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, April - June, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Apr - Jun for years 2007 - 2007  
 Stability Class G Extremely Stable based on Lapse Rate  
 Elevations:: Winds 270ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 1       | 4       | 2       | 8       | 3       | 2       | 0       | 0       | 0        | 0      | 20    |
| NNE                   | 0                      | 0       | 1       | 0       | 2       | 2       | 1       | 2       | 1       | 0        | 0      | 9     |
| NE                    | 0                      | 5       | 1       | 0       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 7     |
| ENE                   | 0                      | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| E                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| ESE                   | 0                      | 1       | 1       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 3     |
| SE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SSE                   | 0                      | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| S                     | 0                      | 0       | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| SSW                   | 0                      | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| SW                    | 0                      | 2       | 0       | 0       | 1       | 0       | 2       | 0       | 0       | 0        | 0      | 5     |
| WSW                   | 0                      | 0       | 0       | 6       | 6       | 0       | 0       | 0       | 0       | 0        | 0      | 12    |
| W                     | 0                      | 0       | 2       | 0       | 7       | 4       | 2       | 2       | 0       | 0        | 0      | 17    |
| WNW                   | 0                      | 1       | 1       | 3       | 6       | 4       | 2       | 5       | 1       | 0        | 0      | 23    |
| NW                    | 0                      | 2       | 3       | 4       | 10      | 0       | 6       | 1       | 0       | 0        | 0      | 26    |
| NNW                   | 0                      | 0       | 3       | 4       | 6       | 1       | 6       | 2       | 0       | 0        | 0      | 22    |
| Tot                   | 0                      | 13      | 17      | 21      | 48      | 14      | 21      | 12      | 2       | 0        | 0      | 148   |

Hours of Calm . . . . . 3  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 151  
 Hours of Missing Data . . . . . 10  
 Hours in Period . . . . . 2184

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Table D - 7 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, July - September, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jul - Sep for years 2007 - 2007  
 All Stabilities  
 Elevations:: Winds 30ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 47      | 12      | 9       | 31      | 34      | 13      | 2       | 0       | 0        | 0      | 148   |
| NNE                   | 1                      | 31      | 19      | 20      | 13      | 17      | 2       | 1       | 0       | 0        | 0      | 104   |
| NE                    | 0                      | 26      | 10      | 14      | 16      | 9       | 2       | 0       | 0       | 0        | 0      | 77    |
| ENE                   | 1                      | 19      | 19      | 17      | 26      | 5       | 0       | 0       | 0       | 0        | 0      | 87    |
| E                     | 0                      | 9       | 18      | 16      | 20      | 7       | 0       | 0       | 0       | 0        | 0      | 70    |
| ESE                   | 0                      | 12      | 14      | 6       | 8       | 1       | 0       | 0       | 0       | 0        | 0      | 41    |
| SE                    | 0                      | 10      | 10      | 9       | 2       | 0       | 0       | 0       | 0       | 0        | 0      | 31    |
| SSE                   | 0                      | 9       | 23      | 13      | 20      | 1       | 0       | 0       | 1       | 0        | 0      | 67    |
| S                     | 0                      | 10      | 30      | 34      | 68      | 25      | 4       | 0       | 0       | 0        | 0      | 171   |
| SSW                   | 1                      | 14      | 39      | 59      | 91      | 16      | 0       | 0       | 0       | 0        | 0      | 220   |
| SW                    | 1                      | 40      | 51      | 39      | 58      | 9       | 0       | 0       | 0       | 0        | 0      | 198   |
| WSW                   | 0                      | 37      | 30      | 33      | 44      | 2       | 0       | 0       | 0       | 0        | 0      | 146   |
| W                     | 1                      | 58      | 24      | 19      | 25      | 0       | 0       | 0       | 0       | 0        | 0      | 127   |
| WNW                   | 0                      | 81      | 51      | 23      | 20      | 8       | 4       | 0       | 0       | 0        | 0      | 187   |
| NW                    | 2                      | 97      | 38      | 19      | 28      | 41      | 19      | 14      | 13      | 0        | 0      | 271   |
| NNW                   | 3                      | 48      | 12      | 8       | 46      | 37      | 28      | 7       | 1       | 0        | 0      | 190   |
| Tot                   | 10                     | 548     | 400     | 338     | 516     | 212     | 72      | 24      | 15      | 0        | 0      | 2135  |

Hours of Calm . . . . . 68  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 2203  
 Hours of Missing Data . . . . . 5  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 7 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, July - September, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jul - Sep for years 2007 - 2007  
 Stability Class A Extremely Unstable based on Lapse Rate  
 Elevations:: Winds 30ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 0       | 1       | 2       | 0       | 0       | 0       | 0        | 0      | 3     |
| NNE                   | 0                      | 0       | 0       | 0       | 1       | 4       | 2       | 0       | 0       | 0        | 0      | 7     |
| NE                    | 0                      | 0       | 0       | 0       | 1       | 0       | 1       | 0       | 0       | 0        | 0      | 2     |
| ENE                   | 0                      | 0       | 0       | 0       | 2       | 1       | 0       | 0       | 0       | 0        | 0      | 3     |
| E                     | 0                      | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| ESE                   | 0                      | 0       | 0       | 2       | 2       | 0       | 0       | 0       | 0       | 0        | 0      | 4     |
| SE                    | 0                      | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| SSE                   | 0                      | 0       | 0       | 1       | 4       | 0       | 0       | 0       | 0       | 0        | 0      | 5     |
| S                     | 0                      | 0       | 0       | 0       | 0       | 2       | 1       | 0       | 0       | 0        | 0      | 3     |
| SSW                   | 0                      | 0       | 0       | 5       | 28      | 9       | 0       | 0       | 0       | 0        | 0      | 42    |
| SW                    | 0                      | 0       | 0       | 2       | 30      | 4       | 0       | 0       | 0       | 0        | 0      | 36    |
| WSW                   | 0                      | 0       | 0       | 3       | 21      | 1       | 0       | 0       | 0       | 0        | 0      | 25    |
| W                     | 0                      | 0       | 0       | 0       | 6       | 0       | 0       | 0       | 0       | 0        | 0      | 6     |
| WNW                   | 0                      | 0       | 0       | 1       | 1       | 0       | 2       | 0       | 0       | 0        | 0      | 4     |
| NW                    | 0                      | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0        | 0      | 1     |
| NNW                   | 0                      | 0       | 0       | 0       | 1       | 1       | 0       | 0       | 0       | 0        | 0      | 2     |
| Tot                   | 0                      | 0       | 0       | 14      | 100     | 25      | 6       | 0       | 0       | 0        | 0      | 145   |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 145  
 Hours of Missing Data . . . . . 5  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 7 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, July - September, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jul - Sep for years 2007 - 2007  
 Stability Class B Moderately Unstable based on Lapse Rate  
 Elevations:: Winds 30ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 1       | 3       | 4       | 0       | 2       | 0       | 0        | 0      | 10    |
| NNE                   | 0                      | 0       | 0       | 0       | 0       | 6       | 0       | 0       | 0       | 0        | 0      | 6     |
| NE                    | 0                      | 0       | 0       | 1       | 5       | 3       | 0       | 0       | 0       | 0        | 0      | 9     |
| ENE                   | 0                      | 0       | 0       | 2       | 2       | 0       | 0       | 0       | 0       | 0        | 0      | 4     |
| E                     | 0                      | 0       | 0       | 2       | 6       | 0       | 0       | 0       | 0       | 0        | 0      | 8     |
| ESE                   | 0                      | 0       | 0       | 0       | 3       | 0       | 0       | 0       | 0       | 0        | 0      | 3     |
| SE                    | 0                      | 0       | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| SSE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 1       | 0        | 0      | 1     |
| S                     | 0                      | 0       | 0       | 1       | 2       | 0       | 1       | 0       | 0       | 0        | 0      | 4     |
| SSW                   | 0                      | 0       | 2       | 1       | 7       | 0       | 0       | 0       | 0       | 0        | 0      | 10    |
| SW                    | 0                      | 0       | 0       | 5       | 4       | 2       | 0       | 0       | 0       | 0        | 0      | 11    |
| WSW                   | 0                      | 0       | 1       | 10      | 6       | 1       | 0       | 0       | 0       | 0        | 0      | 18    |
| W                     | 0                      | 0       | 1       | 2       | 7       | 0       | 0       | 0       | 0       | 0        | 0      | 10    |
| WNW                   | 0                      | 0       | 1       | 1       | 3       | 3       | 1       | 0       | 0       | 0        | 0      | 9     |
| NW                    | 0                      | 0       | 0       | 0       | 3       | 4       | 1       | 2       | 0       | 0        | 0      | 10    |
| NNW                   | 0                      | 0       | 0       | 0       | 2       | 6       | 1       | 0       | 0       | 0        | 0      | 9     |
| Tot                   | 0                      | 0       | 5       | 27      | 53      | 29      | 4       | 4       | 1       | 0        | 0      | 123   |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 123  
 Hours of Missing Data . . . . . 5  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 7 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, July - September, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jul - Sep for years 2007 - 2007  
 Stability Class C Slightly Unstable based on Lapse Rate  
 Elevations:: Winds 30ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 1       | 3       | 6       | 5       | 0       | 0       | 0        | 0      | 15    |
| NNE                   | 0                      | 0       | 1       | 1       | 2       | 2       | 0       | 0       | 0       | 0        | 0      | 6     |
| NE                    | 0                      | 0       | 0       | 1       | 1       | 1       | 0       | 0       | 0       | 0        | 0      | 3     |
| ENE                   | 0                      | 0       | 0       | 0       | 2       | 1       | 0       | 0       | 0       | 0        | 0      | 3     |
| E                     | 0                      | 0       | 2       | 2       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 5     |
| ESE                   | 0                      | 0       | 2       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| SE                    | 0                      | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| SSE                   | 0                      | 0       | 3       | 0       | 2       | 0       | 0       | 0       | 0       | 0        | 0      | 5     |
| S                     | 0                      | 0       | 0       | 2       | 0       | 1       | 0       | 0       | 0       | 0        | 0      | 3     |
| SSW                   | 0                      | 0       | 0       | 9       | 7       | 1       | 0       | 0       | 0       | 0        | 0      | 17    |
| SW                    | 0                      | 0       | 1       | 2       | 7       | 1       | 0       | 0       | 0       | 0        | 0      | 11    |
| WSW                   | 0                      | 0       | 2       | 4       | 5       | 0       | 0       | 0       | 0       | 0        | 0      | 11    |
| W                     | 0                      | 1       | 2       | 3       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 7     |
| WNW                   | 0                      | 0       | 0       | 6       | 5       | 0       | 1       | 0       | 0       | 0        | 0      | 12    |
| NW                    | 0                      | 0       | 1       | 0       | 5       | 6       | 4       | 1       | 1       | 0        | 0      | 18    |
| NNW                   | 0                      | 0       | 0       | 0       | 8       | 5       | 12      | 0       | 0       | 0        | 0      | 25    |
| Tot                   | 0                      | 1       | 15      | 31      | 49      | 24      | 22      | 1       | 1       | 0        | 0      | 144   |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 144  
 Hours of Missing Data . . . . . 5  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 7 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, July - September, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jul - Sep for years 2007 - 2007  
 Stability Class D Neutral based on Lapse Rate  
 Elevations:: Winds 30ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 4       | 2       | 5       | 9       | 17      | 8       | 0       | 0       | 0        | 0      | 45    |
| NNE                   | 0                      | 8       | 6       | 8       | 6       | 2       | 0       | 1       | 0       | 0        | 0      | 31    |
| NE                    | 0                      | 1       | 1       | 6       | 6       | 5       | 1       | 0       | 0       | 0        | 0      | 20    |
| ENE                   | 1                      | 1       | 2       | 6       | 7       | 2       | 0       | 0       | 0       | 0        | 0      | 19    |
| E                     | 0                      | 1       | 0       | 6       | 3       | 0       | 0       | 0       | 0       | 0        | 0      | 10    |
| ESE                   | 0                      | 0       | 5       | 2       | 3       | 0       | 0       | 0       | 0       | 0        | 0      | 10    |
| SE                    | 0                      | 2       | 3       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 6     |
| SSE                   | 0                      | 1       | 7       | 4       | 4       | 0       | 0       | 0       | 0       | 0        | 0      | 16    |
| S                     | 0                      | 0       | 11      | 6       | 13      | 11      | 2       | 0       | 0       | 0        | 0      | 43    |
| SSW                   | 0                      | 4       | 14      | 17      | 30      | 1       | 0       | 0       | 0       | 0        | 0      | 66    |
| SW                    | 1                      | 2       | 17      | 18      | 14      | 2       | 0       | 0       | 0       | 0        | 0      | 54    |
| WSW                   | 0                      | 6       | 11      | 12      | 7       | 0       | 0       | 0       | 0       | 0        | 0      | 36    |
| W                     | 0                      | 0       | 8       | 6       | 6       | 0       | 0       | 0       | 0       | 0        | 0      | 20    |
| WNW                   | 0                      | 6       | 15      | 6       | 9       | 3       | 0       | 0       | 0       | 0        | 0      | 39    |
| NW                    | 0                      | 5       | 9       | 11      | 14      | 19      | 11      | 9       | 12      | 0        | 0      | 90    |
| NNW                   | 0                      | 4       | 4       | 2       | 21      | 21      | 12      | 5       | 1       | 0        | 0      | 70    |
| Tot                   | 2                      | 45      | 115     | 116     | 152     | 83      | 34      | 15      | 13      | 0        | 0      | 575   |

Hours of Calm . . . . . 2  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 577  
 Hours of Missing Data . . . . . 5  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
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Table D - 7 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, July - September, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jul - Sep for years 2007 - 2007  
 Stability Class E Slightly Stable based on Lapse Rate  
 Elevations:: Winds 30ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 17      | 9       | 2       | 10      | 5       | 0       | 0       | 0       | 0        | 0      | 43    |
| NNE                   | 1                      | 8       | 12      | 8       | 2       | 3       | 0       | 0       | 0       | 0        | 0      | 34    |
| NE                    | 0                      | 12      | 6       | 5       | 3       | 0       | 0       | 0       | 0       | 0        | 0      | 26    |
| ENE                   | 0                      | 9       | 13      | 7       | 13      | 1       | 0       | 0       | 0       | 0        | 0      | 43    |
| E                     | 0                      | 3       | 12      | 6       | 7       | 7       | 0       | 0       | 0       | 0        | 0      | 35    |
| ESE                   | 0                      | 8       | 5       | 1       | 0       | 1       | 0       | 0       | 0       | 0        | 0      | 15    |
| SE                    | 0                      | 3       | 5       | 7       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 16    |
| SSE                   | 0                      | 5       | 13      | 8       | 10      | 1       | 0       | 0       | 0       | 0        | 0      | 37    |
| S                     | 0                      | 10      | 17      | 25      | 52      | 10      | 0       | 0       | 0       | 0        | 0      | 114   |
| SSW                   | 0                      | 8       | 17      | 22      | 19      | 5       | 0       | 0       | 0       | 0        | 0      | 71    |
| SW                    | 0                      | 23      | 24      | 11      | 3       | 0       | 0       | 0       | 0       | 0        | 0      | 61    |
| WSW                   | 0                      | 15      | 14      | 4       | 5       | 0       | 0       | 0       | 0       | 0        | 0      | 38    |
| W                     | 0                      | 18      | 10      | 7       | 5       | 0       | 0       | 0       | 0       | 0        | 0      | 40    |
| WNW                   | 0                      | 13      | 20      | 8       | 2       | 2       | 0       | 0       | 0       | 0        | 0      | 45    |
| NW                    | 0                      | 15      | 11      | 7       | 6       | 10      | 3       | 2       | 0       | 0        | 0      | 54    |
| NNW                   | 1                      | 9       | 5       | 6       | 13      | 4       | 3       | 2       | 0       | 0        | 0      | 43    |
| Tot                   | 2                      | 176     | 193     | 134     | 151     | 49      | 6       | 4       | 0       | 0        | 0      | 715   |

Hours of Calm . . . . . 18  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 733  
 Hours of Missing Data . . . . . 5  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
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Table D - 7 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, July - September, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jul - Sep for years 2007 - 2007  
 Stability Class F Moderately Stable based on Lapse Rate  
 Elevations:: Winds 30ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 17      | 0       | 0       | 5       | 0       | 0       | 0       | 0       | 0        | 0      | 22    |
| NNE                   | 0                      | 10      | 0       | 3       | 2       | 0       | 0       | 0       | 0       | 0        | 0      | 15    |
| NE                    | 0                      | 13      | 3       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 17    |
| ENE                   | 0                      | 7       | 4       | 2       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 13    |
| E                     | 0                      | 4       | 2       | 0       | 2       | 0       | 0       | 0       | 0       | 0        | 0      | 8     |
| ESE                   | 0                      | 4       | 2       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 7     |
| SE                    | 0                      | 5       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 6     |
| SSE                   | 0                      | 3       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 3     |
| S                     | 0                      | 0       | 2       | 0       | 1       | 1       | 0       | 0       | 0       | 0        | 0      | 4     |
| SSW                   | 1                      | 2       | 5       | 4       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 12    |
| SW                    | 0                      | 13      | 9       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 23    |
| WSW                   | 0                      | 13      | 2       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 15    |
| W                     | 0                      | 18      | 3       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 22    |
| WNW                   | 0                      | 31      | 11      | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 43    |
| NW                    | 0                      | 38      | 15      | 1       | 0       | 1       | 0       | 0       | 0       | 0        | 0      | 55    |
| NNW                   | 0                      | 19      | 3       | 0       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 23    |
| Tot                   | 1                      | 197     | 62      | 15      | 11      | 2       | 0       | 0       | 0       | 0        | 0      | 288   |

Hours of Calm . . . . . 22  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 310  
 Hours of Missing Data . . . . . 5  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
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Table D - 7 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, July - September, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jul - Sep for years 2007 - 2007  
 Stability Class G Extremely Stable based on Lapse Rate  
 Elevations:: Winds 30ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 9       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 10    |
| NNE                   | 0                      | 5       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 5     |
| NE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| ENE                   | 0                      | 2       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| E                     | 0                      | 1       | 2       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 3     |
| ESE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SSE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| S                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SSW                   | 0                      | 0       | 1       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| SW                    | 0                      | 2       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| WSW                   | 0                      | 3       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 3     |
| W                     | 1                      | 21      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 22    |
| WNW                   | 0                      | 31      | 4       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 35    |
| NW                    | 2                      | 39      | 2       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 43    |
| NNW                   | 2                      | 16      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 18    |
| Tot                   | 5                      | 129     | 10      | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 145   |

Hours of Calm . . . . . 26  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 171  
 Hours of Missing Data . . . . . 5  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
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Table D - 8 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, July - September, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jul - Sep for years 2007 - 2007  
 All Stabilities  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 6       | 3       | 8       | 28      | 18      | 40      | 29      | 9       | 0        | 0      | 141   |
| NNE                   | 0                      | 10      | 10      | 8       | 34      | 18      | 15      | 8       | 2       | 0        | 0      | 105   |
| NE                    | 0                      | 9       | 16      | 3       | 20      | 14      | 8       | 4       | 0       | 0        | 0      | 74    |
| ENE                   | 0                      | 7       | 9       | 7       | 28      | 21      | 6       | 1       | 0       | 0        | 0      | 79    |
| E                     | 0                      | 7       | 3       | 13      | 13      | 17      | 5       | 7       | 0       | 0        | 0      | 65    |
| ESE                   | 0                      | 6       | 14      | 10      | 8       | 5       | 6       | 3       | 0       | 0        | 0      | 52    |
| SE                    | 0                      | 5       | 7       | 10      | 15      | 6       | 2       | 0       | 0       | 0        | 0      | 45    |
| SSE                   | 0                      | 5       | 9       | 10      | 18      | 20      | 14      | 4       | 0       | 0        | 0      | 80    |
| S                     | 0                      | 1       | 8       | 22      | 40      | 44      | 50      | 29      | 9       | 0        | 0      | 203   |
| SSW                   | 0                      | 5       | 11      | 18      | 71      | 69      | 56      | 13      | 9       | 0        | 0      | 252   |
| SW                    | 0                      | 4       | 13      | 26      | 42      | 69      | 34      | 15      | 9       | 0        | 0      | 212   |
| WSW                   | 1                      | 5       | 17      | 14      | 44      | 29      | 25      | 8       | 3       | 0        | 0      | 146   |
| W                     | 0                      | 5       | 21      | 25      | 26      | 17      | 20      | 10      | 4       | 1        | 0      | 129   |
| WNW                   | 0                      | 11      | 16      | 41      | 68      | 44      | 23      | 8       | 18      | 1        | 0      | 230   |
| NW                    | 0                      | 15      | 15      | 18      | 71      | 42      | 25      | 13      | 18      | 15       | 0      | 232   |
| NNW                   | 0                      | 4       | 15      | 15      | 33      | 31      | 28      | 16      | 12      | 0        | 0      | 154   |
| Tot                   | 1                      | 105     | 187     | 248     | 559     | 464     | 357     | 168     | 93      | 17       | 0      | 2199  |

Hours of Calm . . . . . 5  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 2204  
 Hours of Missing Data . . . . . 4  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
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Table D - 8 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, July - September, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jul - Sep for years 2007 - 2007  
 Stability Class A Extremely Unstable based on Lapse Rate  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 1       | 1       | 2       | 8       | 5       | 4       | 0        | 0      | 21    |
| NNE                   | 0                      | 0       | 0       | 0       | 3       | 2       | 5       | 2       | 0       | 0        | 0      | 12    |
| NE                    | 0                      | 0       | 0       | 0       | 0       | 1       | 1       | 1       | 0       | 0        | 0      | 3     |
| ENE                   | 0                      | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0        | 0      | 1     |
| E                     | 0                      | 0       | 0       | 0       | 0       | 3       | 0       | 0       | 0       | 0        | 0      | 3     |
| ESE                   | 0                      | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0        | 0      | 1     |
| SE                    | 0                      | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| SSE                   | 0                      | 0       | 0       | 0       | 1       | 4       | 0       | 0       | 0       | 0        | 0      | 5     |
| S                     | 0                      | 0       | 0       | 0       | 1       | 4       | 4       | 2       | 1       | 0        | 0      | 12    |
| SSW                   | 0                      | 0       | 0       | 0       | 8       | 18      | 18      | 6       | 1       | 0        | 0      | 51    |
| SW                    | 0                      | 0       | 1       | 0       | 12      | 22      | 14      | 6       | 3       | 0        | 0      | 58    |
| WSW                   | 0                      | 0       | 0       | 1       | 9       | 8       | 14      | 2       | 1       | 0        | 0      | 35    |
| W                     | 0                      | 0       | 0       | 2       | 4       | 7       | 1       | 4       | 1       | 1        | 0      | 20    |
| WNW                   | 0                      | 0       | 0       | 3       | 0       | 2       | 1       | 1       | 3       | 0        | 0      | 10    |
| NW                    | 0                      | 0       | 0       | 0       | 0       | 4       | 7       | 1       | 1       | 0        | 0      | 13    |
| NNW                   | 0                      | 0       | 0       | 0       | 0       | 2       | 2       | 0       | 0       | 0        | 0      | 4     |
| Tot                   | 0                      | 0       | 1       | 7       | 40      | 81      | 75      | 30      | 15      | 1        | 0      | 250   |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 250  
 Hours of Missing Data . . . . . 4  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
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Table D - 8 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, July - September, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jul - Sep for years 2007 - 2007  
 Stability Class B Moderately Unstable based on Lapse Rate  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 1       | 1       | 1       | 4       | 4       | 3       | 0        | 0      | 14    |
| NNE                   | 0                      | 0       | 0       | 0       | 3       | 2       | 1       | 2       | 0       | 0        | 0      | 8     |
| NE                    | 0                      | 0       | 0       | 0       | 2       | 2       | 1       | 0       | 0       | 0        | 0      | 5     |
| ENE                   | 0                      | 0       | 0       | 0       | 1       | 1       | 1       | 0       | 0       | 0        | 0      | 3     |
| E                     | 0                      | 0       | 0       | 1       | 1       | 3       | 0       | 0       | 0       | 0        | 0      | 5     |
| ESE                   | 0                      | 0       | 0       | 0       | 0       | 2       | 0       | 0       | 0       | 0        | 0      | 2     |
| SE                    | 0                      | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0        | 0      | 1     |
| SSE                   | 0                      | 0       | 0       | 0       | 1       | 1       | 0       | 0       | 0       | 0        | 0      | 2     |
| S                     | 0                      | 0       | 0       | 1       | 1       | 1       | 1       | 1       | 0       | 0        | 0      | 5     |
| SSW                   | 0                      | 0       | 0       | 0       | 4       | 2       | 2       | 1       | 0       | 0        | 0      | 9     |
| SW                    | 0                      | 0       | 1       | 1       | 7       | 9       | 2       | 1       | 2       | 0        | 0      | 23    |
| WSW                   | 0                      | 0       | 2       | 1       | 5       | 1       | 1       | 1       | 0       | 0        | 0      | 11    |
| W                     | 0                      | 0       | 1       | 2       | 3       | 1       | 3       | 2       | 0       | 0        | 0      | 12    |
| WNW                   | 0                      | 0       | 1       | 0       | 3       | 2       | 2       | 1       | 4       | 0        | 0      | 13    |
| NW                    | 0                      | 0       | 0       | 0       | 2       | 2       | 5       | 3       | 2       | 1        | 0      | 15    |
| NNW                   | 0                      | 0       | 0       | 0       | 2       | 3       | 1       | 4       | 2       | 0        | 0      | 12    |
| Tot                   | 0                      | 0       | 5       | 7       | 36      | 34      | 24      | 20      | 13      | 1        | 0      | 140   |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 140  
 Hours of Missing Data . . . . . 4  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
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Table D - 8 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, July - September, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jul - Sep for years 2007 - 2007  
 Stability Class C Slightly Unstable based on Lapse Rate  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 0       | 1       | 1       | 6       | 2       | 0       | 0        | 0      | 10    |
| NNE                   | 0                      | 0       | 0       | 0       | 3       | 3       | 1       | 0       | 0       | 0        | 0      | 7     |
| NE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 0        | 0      | 1     |
| ENE                   | 0                      | 0       | 0       | 0       | 5       | 0       | 0       | 0       | 0       | 0        | 0      | 5     |
| E                     | 0                      | 0       | 0       | 3       | 2       | 0       | 0       | 0       | 0       | 0        | 0      | 5     |
| ESE                   | 0                      | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| SE                    | 0                      | 0       | 0       | 0       | 2       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| SSE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 0        | 0      | 1     |
| S                     | 0                      | 0       | 0       | 1       | 0       | 3       | 2       | 0       | 1       | 0        | 0      | 7     |
| SSW                   | 0                      | 0       | 0       | 3       | 5       | 1       | 4       | 0       | 0       | 0        | 0      | 13    |
| SW                    | 0                      | 0       | 0       | 1       | 2       | 2       | 0       | 1       | 0       | 0        | 0      | 6     |
| WSW                   | 0                      | 0       | 0       | 4       | 2       | 2       | 1       | 1       | 0       | 0        | 0      | 10    |
| W                     | 0                      | 0       | 1       | 4       | 2       | 2       | 1       | 1       | 0       | 0        | 0      | 11    |
| WNW                   | 0                      | 0       | 0       | 2       | 2       | 2       | 3       | 1       | 3       | 1        | 0      | 14    |
| NW                    | 0                      | 0       | 0       | 0       | 0       | 3       | 4       | 2       | 4       | 4        | 0      | 17    |
| NNW                   | 0                      | 0       | 0       | 0       | 2       | 2       | 5       | 5       | 3       | 0        | 0      | 17    |
| Tot                   | 0                      | 0       | 2       | 18      | 28      | 21      | 29      | 13      | 11      | 5        | 0      | 127   |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 127  
 Hours of Missing Data . . . . . 4  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 8 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, July - September, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jul - Sep for years 2007 - 2007  
 Stability Class D Neutral based on Lapse Rate  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 1       | 0       | 0       | 6       | 4       | 11      | 7       | 0       | 0        | 0      | 29    |
| NNE                   | 0                      | 3       | 4       | 1       | 10      | 3       | 2       | 0       | 1       | 0        | 0      | 24    |
| NE                    | 0                      | 1       | 5       | 2       | 5       | 2       | 3       | 3       | 0       | 0        | 0      | 21    |
| ENE                   | 0                      | 0       | 0       | 0       | 8       | 0       | 1       | 0       | 0       | 0        | 0      | 9     |
| E                     | 0                      | 0       | 0       | 1       | 5       | 5       | 0       | 0       | 0       | 0        | 0      | 11    |
| ESE                   | 0                      | 2       | 3       | 2       | 2       | 0       | 1       | 0       | 0       | 0        | 0      | 10    |
| SE                    | 0                      | 0       | 3       | 3       | 1       | 0       | 1       | 0       | 0       | 0        | 0      | 8     |
| SSE                   | 0                      | 1       | 3       | 6       | 6       | 1       | 3       | 2       | 0       | 0        | 0      | 22    |
| S                     | 0                      | 0       | 3       | 7       | 7       | 4       | 6       | 9       | 3       | 0        | 0      | 39    |
| SSW                   | 0                      | 3       | 4       | 1       | 18      | 11      | 11      | 2       | 0       | 0        | 0      | 50    |
| SW                    | 0                      | 0       | 6       | 5       | 8       | 4       | 6       | 1       | 3       | 0        | 0      | 33    |
| WSW                   | 0                      | 1       | 5       | 3       | 7       | 3       | 5       | 0       | 0       | 0        | 0      | 24    |
| W                     | 0                      | 1       | 7       | 3       | 3       | 3       | 6       | 2       | 1       | 0        | 0      | 26    |
| WNW                   | 0                      | 3       | 3       | 9       | 8       | 6       | 5       | 3       | 5       | 0        | 0      | 42    |
| NW                    | 0                      | 3       | 2       | 1       | 8       | 4       | 6       | 5       | 5       | 9        | 0      | 43    |
| NNW                   | 0                      | 1       | 3       | 3       | 6       | 11      | 9       | 5       | 3       | 0        | 0      | 41    |
| Tot                   | 0                      | 20      | 51      | 47      | 108     | 61      | 76      | 39      | 21      | 9        | 0      | 432   |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 432  
 Hours of Missing Data . . . . . 4  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
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Table D - 8 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, July - September, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jul - Sep for years 2007 - 2007  
 Stability Class E Slightly Stable based on Lapse Rate  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 3       | 0       | 1       | 10      | 6       | 9       | 6       | 1       | 0        | 0      | 36    |
| NNE                   | 0                      | 4       | 4       | 6       | 5       | 6       | 3       | 4       | 1       | 0        | 0      | 33    |
| NE                    | 0                      | 3       | 8       | 1       | 9       | 8       | 2       | 0       | 0       | 0        | 0      | 31    |
| ENE                   | 0                      | 6       | 4       | 5       | 10      | 18      | 4       | 1       | 0       | 0        | 0      | 48    |
| E                     | 0                      | 4       | 1       | 7       | 4       | 3       | 5       | 6       | 0       | 0        | 0      | 30    |
| ESE                   | 0                      | 1       | 7       | 3       | 5       | 1       | 2       | 1       | 0       | 0        | 0      | 20    |
| SE                    | 0                      | 3       | 3       | 4       | 9       | 2       | 1       | 0       | 0       | 0        | 0      | 22    |
| SSE                   | 0                      | 2       | 0       | 3       | 8       | 10      | 8       | 2       | 0       | 0        | 0      | 33    |
| S                     | 0                      | 0       | 2       | 9       | 22      | 26      | 35      | 15      | 3       | 0        | 0      | 112   |
| SSW                   | 0                      | 1       | 2       | 6       | 22      | 28      | 15      | 2       | 7       | 0        | 0      | 83    |
| SW                    | 0                      | 0       | 0       | 13      | 9       | 17      | 7       | 5       | 1       | 0        | 0      | 52    |
| WSW                   | 0                      | 1       | 2       | 2       | 7       | 7       | 4       | 4       | 2       | 0        | 0      | 29    |
| W                     | 0                      | 1       | 2       | 3       | 5       | 2       | 5       | 1       | 2       | 0        | 0      | 21    |
| WNW                   | 0                      | 2       | 2       | 5       | 16      | 15      | 8       | 2       | 3       | 0        | 0      | 53    |
| NW                    | 0                      | 4       | 6       | 1       | 8       | 5       | 3       | 2       | 5       | 1        | 0      | 35    |
| NNW                   | 0                      | 2       | 5       | 5       | 8       | 5       | 8       | 2       | 4       | 0        | 0      | 39    |
| Tot                   | 0                      | 37      | 48      | 74      | 157     | 159     | 119     | 53      | 29      | 1        | 0      | 677   |

Hours of Calm . . . . . 1  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 678  
 Hours of Missing Data . . . . . 4  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
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Table D - 8 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, July - September, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jul - Sep for years 2007 - 2007  
 Stability Class F Moderately Stable based on Lapse Rate  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 2       | 3       | 5       | 2       | 2       | 5       | 1       | 0        | 0      | 20    |
| NNE                   | 0                      | 0       | 1       | 1       | 6       | 2       | 1       | 0       | 0       | 0        | 0      | 11    |
| NE                    | 0                      | 2       | 2       | 0       | 3       | 0       | 0       | 0       | 0       | 0        | 0      | 7     |
| ENE                   | 0                      | 1       | 3       | 2       | 2       | 1       | 0       | 0       | 0       | 0        | 0      | 9     |
| E                     | 0                      | 1       | 2       | 1       | 0       | 2       | 0       | 1       | 0       | 0        | 0      | 7     |
| ESE                   | 0                      | 2       | 2       | 5       | 1       | 0       | 3       | 2       | 0       | 0        | 0      | 15    |
| SE                    | 0                      | 1       | 1       | 2       | 2       | 3       | 0       | 0       | 0       | 0        | 0      | 9     |
| SSE                   | 0                      | 2       | 6       | 1       | 2       | 4       | 2       | 0       | 0       | 0        | 0      | 17    |
| S                     | 0                      | 0       | 1       | 3       | 8       | 5       | 2       | 2       | 1       | 0        | 0      | 22    |
| SSW                   | 0                      | 0       | 1       | 3       | 12      | 7       | 6       | 1       | 1       | 0        | 0      | 31    |
| SW                    | 0                      | 1       | 2       | 5       | 3       | 13      | 5       | 0       | 0       | 0        | 0      | 29    |
| WSW                   | 1                      | 0       | 5       | 2       | 7       | 7       | 0       | 0       | 0       | 0        | 0      | 22    |
| W                     | 0                      | 1       | 2       | 0       | 4       | 2       | 2       | 0       | 0       | 0        | 0      | 11    |
| WNW                   | 0                      | 4       | 4       | 7       | 25      | 10      | 0       | 0       | 0       | 0        | 0      | 50    |
| NW                    | 0                      | 3       | 4       | 6       | 24      | 13      | 0       | 0       | 0       | 0        | 0      | 50    |
| NNW                   | 0                      | 1       | 3       | 1       | 7       | 6       | 2       | 0       | 0       | 0        | 0      | 20    |
| Tot                   | 1                      | 19      | 41      | 42      | 111     | 77      | 25      | 11      | 3       | 0        | 0      | 330   |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 330  
 Hours of Missing Data . . . . . 4  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 8 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, July - September, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jul - Sep for years 2007 - 2007  
 Stability Class G Extremely Stable based on Lapse Rate  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 2       | 1       | 2       | 4       | 2       | 0       | 0       | 0       | 0        | 0      | 11    |
| NNE                   | 0                      | 3       | 1       | 0       | 4       | 0       | 2       | 0       | 0       | 0        | 0      | 10    |
| NE                    | 0                      | 3       | 1       | 0       | 1       | 1       | 0       | 0       | 0       | 0        | 0      | 6     |
| ENE                   | 0                      | 0       | 2       | 0       | 2       | 0       | 0       | 0       | 0       | 0        | 0      | 4     |
| E                     | 0                      | 2       | 0       | 0       | 1       | 1       | 0       | 0       | 0       | 0        | 0      | 4     |
| ESE                   | 0                      | 1       | 1       | 0       | 0       | 1       | 0       | 0       | 0       | 0        | 0      | 3     |
| SE                    | 0                      | 1       | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| SSE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| S                     | 0                      | 1       | 2       | 1       | 1       | 1       | 0       | 0       | 0       | 0        | 0      | 6     |
| SSW                   | 0                      | 1       | 4       | 5       | 2       | 2       | 0       | 1       | 0       | 0        | 0      | 15    |
| SW                    | 0                      | 3       | 3       | 1       | 1       | 2       | 0       | 1       | 0       | 0        | 0      | 11    |
| WSW                   | 0                      | 3       | 3       | 1       | 7       | 1       | 0       | 0       | 0       | 0        | 0      | 15    |
| W                     | 0                      | 2       | 8       | 11      | 5       | 0       | 2       | 0       | 0       | 0        | 0      | 28    |
| WNW                   | 0                      | 2       | 6       | 15      | 14      | 7       | 4       | 0       | 0       | 0        | 0      | 48    |
| NW                    | 0                      | 5       | 3       | 10      | 29      | 11      | 0       | 0       | 1       | 0        | 0      | 59    |
| NNW                   | 0                      | 0       | 4       | 6       | 8       | 2       | 1       | 0       | 0       | 0        | 0      | 21    |
| Tot                   | 0                      | 29      | 39      | 53      | 79      | 31      | 9       | 2       | 1       | 0        | 0      | 243   |

Hours of Calm . . . . . 4  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 247  
 Hours of Missing Data . . . . . 4  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 9 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, July - September, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jul - Sep for years 2007 - 2007  
 All Stabilities  
 Elevations:: Winds 270ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 5       | 5       | 13      | 29      | 24      | 33      | 21      | 23      | 1        | 0      | 154   |
| NNE                   | 2                      | 7       | 6       | 7       | 26      | 17      | 17      | 10      | 4       | 1        | 0      | 97    |
| NE                    | 0                      | 7       | 10      | 9       | 19      | 19      | 10      | 4       | 0       | 0        | 0      | 78    |
| ENE                   | 0                      | 8       | 11      | 8       | 17      | 22      | 10      | 5       | 3       | 0        | 0      | 84    |
| E                     | 0                      | 7       | 9       | 9       | 8       | 10      | 7       | 4       | 5       | 0        | 0      | 59    |
| ESE                   | 0                      | 5       | 6       | 11      | 8       | 4       | 1       | 2       | 2       | 0        | 0      | 39    |
| SE                    | 1                      | 2       | 10      | 9       | 21      | 7       | 6       | 2       | 0       | 0        | 0      | 58    |
| SSE                   | 0                      | 3       | 1       | 9       | 18      | 13      | 23      | 19      | 12      | 0        | 0      | 98    |
| S                     | 0                      | 3       | 15      | 10      | 41      | 41      | 64      | 32      | 27      | 2        | 0      | 235   |
| SSW                   | 0                      | 2       | 8       | 14      | 68      | 69      | 55      | 28      | 13      | 3        | 0      | 260   |
| SW                    | 0                      | 6       | 14      | 15      | 53      | 54      | 43      | 21      | 12      | 0        | 0      | 218   |
| WSW                   | 0                      | 2       | 18      | 12      | 29      | 27      | 16      | 11      | 3       | 2        | 0      | 120   |
| W                     | 0                      | 5       | 9       | 23      | 39      | 25      | 19      | 18      | 6       | 6        | 0      | 150   |
| WNW                   | 0                      | 5       | 7       | 18      | 43      | 39      | 42      | 23      | 21      | 9        | 1      | 208   |
| NW                    | 0                      | 7       | 7       | 9       | 32      | 36      | 27      | 10      | 13      | 17       | 2      | 160   |
| NNW                   | 0                      | 7       | 12      | 13      | 36      | 32      | 27      | 34      | 15      | 2        | 0      | 178   |
| Tot                   | 3                      | 81      | 148     | 189     | 487     | 439     | 400     | 244     | 159     | 43       | 3      | 2196  |

Hours of Calm . . . . . 8  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 2204  
 Hours of Missing Data . . . . . 4  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 9 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, July - September, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jul - Sep for years 2007 - 2007  
 Stability Class A Extremely Unstable based on Lapse Rate  
 Elevations:: Winds 270ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 0       | 0       | 1       | 2       | 0       | 0       | 0        | 0      | 3     |
| NNE                   | 0                      | 0       | 0       | 0       | 0       | 1       | 1       | 5       | 1       | 0        | 0      | 8     |
| NE                    | 0                      | 0       | 0       | 0       | 1       | 1       | 0       | 0       | 0       | 0        | 0      | 2     |
| ENE                   | 0                      | 0       | 0       | 1       | 0       | 2       | 0       | 0       | 0       | 0        | 0      | 3     |
| E                     | 0                      | 0       | 0       | 0       | 0       | 1       | 1       | 0       | 0       | 0        | 0      | 2     |
| ESE                   | 0                      | 0       | 0       | 1       | 0       | 1       | 0       | 0       | 0       | 0        | 0      | 2     |
| SE                    | 0                      | 0       | 0       | 0       | 0       | 2       | 0       | 0       | 0       | 0        | 0      | 2     |
| SSE                   | 0                      | 0       | 0       | 0       | 1       | 3       | 0       | 0       | 0       | 0        | 0      | 4     |
| S                     | 0                      | 0       | 0       | 0       | 1       | 4       | 9       | 4       | 3       | 0        | 0      | 21    |
| SSW                   | 0                      | 0       | 0       | 0       | 6       | 14      | 16      | 4       | 1       | 0        | 0      | 41    |
| SW                    | 0                      | 0       | 0       | 0       | 5       | 12      | 11      | 6       | 3       | 0        | 0      | 37    |
| WSW                   | 0                      | 0       | 0       | 0       | 4       | 4       | 2       | 2       | 0       | 0        | 0      | 12    |
| W                     | 0                      | 0       | 0       | 1       | 0       | 2       | 0       | 0       | 0       | 2        | 0      | 5     |
| WNW                   | 0                      | 0       | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 0        | 0      | 1     |
| NW                    | 0                      | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0        | 0      | 1     |
| NNW                   | 0                      | 0       | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 0        | 0      | 1     |
| Tot                   | 0                      | 0       | 0       | 3       | 18      | 49      | 44      | 21      | 8       | 2        | 0      | 145   |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 145  
 Hours of Missing Data . . . . . 4  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 9 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, July - September, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jul - Sep for years 2007 - 2007  
 Stability Class B Moderately Unstable based on Lapse Rate  
 Elevations:: Winds 270ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 0       | 1       | 1       | 6       | 1       | 2       | 0        | 0      | 11    |
| NNE                   | 0                      | 0       | 0       | 0       | 4       | 2       | 3       | 2       | 0       | 0        | 0      | 11    |
| NE                    | 0                      | 0       | 0       | 0       | 3       | 0       | 1       | 0       | 0       | 0        | 0      | 4     |
| ENE                   | 0                      | 0       | 0       | 1       | 4       | 1       | 0       | 0       | 0       | 0        | 0      | 6     |
| E                     | 0                      | 0       | 0       | 1       | 0       | 3       | 1       | 0       | 0       | 0        | 0      | 5     |
| ESE                   | 0                      | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0        | 0      | 1     |
| SE                    | 0                      | 0       | 0       | 0       | 3       | 0       | 0       | 0       | 0       | 0        | 0      | 3     |
| SSE                   | 0                      | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0        | 0      | 1     |
| S                     | 0                      | 0       | 0       | 1       | 1       | 2       | 4       | 0       | 1       | 0        | 0      | 9     |
| SSW                   | 0                      | 0       | 0       | 0       | 2       | 1       | 4       | 0       | 2       | 0        | 0      | 9     |
| SW                    | 0                      | 0       | 1       | 0       | 9       | 8       | 3       | 0       | 1       | 0        | 0      | 22    |
| WSW                   | 0                      | 0       | 0       | 2       | 1       | 3       | 2       | 0       | 1       | 0        | 0      | 9     |
| W                     | 0                      | 0       | 0       | 1       | 0       | 2       | 2       | 3       | 2       | 1        | 0      | 11    |
| WNW                   | 0                      | 0       | 0       | 1       | 0       | 1       | 1       | 0       | 3       | 0        | 0      | 6     |
| NW                    | 0                      | 0       | 0       | 0       | 0       | 4       | 6       | 0       | 1       | 0        | 0      | 11    |
| NNW                   | 0                      | 0       | 0       | 1       | 1       | 2       | 0       | 0       | 0       | 0        | 0      | 4     |
| Tot                   | 0                      | 0       | 1       | 8       | 29      | 32      | 33      | 6       | 13      | 1        | 0      | 123   |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 123  
 Hours of Missing Data . . . . . 4  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 9 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, July - September, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jul - Sep for years 2007 - 2007  
 Stability Class C Slightly Unstable based on Lapse Rate  
 Elevations:: Winds 270ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 0       | 4       | 3       | 4       | 2       | 2       | 0        | 0      | 15    |
| NNE                   | 0                      | 0       | 0       | 0       | 2       | 0       | 2       | 0       | 0       | 0        | 0      | 4     |
| NE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 0        | 0      | 1     |
| ENE                   | 0                      | 0       | 1       | 0       | 2       | 1       | 1       | 0       | 0       | 0        | 0      | 5     |
| E                     | 0                      | 0       | 1       | 2       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 4     |
| ESE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SE                    | 0                      | 0       | 1       | 1       | 0       | 1       | 0       | 0       | 0       | 0        | 0      | 3     |
| SSE                   | 0                      | 0       | 0       | 2       | 0       | 0       | 1       | 0       | 1       | 0        | 0      | 4     |
| S                     | 0                      | 0       | 1       | 1       | 3       | 1       | 2       | 0       | 0       | 0        | 0      | 8     |
| SSW                   | 0                      | 0       | 0       | 0       | 6       | 5       | 1       | 3       | 1       | 0        | 0      | 16    |
| SW                    | 0                      | 0       | 1       | 0       | 5       | 4       | 3       | 2       | 0       | 0        | 0      | 15    |
| WSW                   | 0                      | 0       | 1       | 2       | 0       | 0       | 0       | 2       | 0       | 0        | 0      | 5     |
| W                     | 0                      | 0       | 0       | 4       | 4       | 4       | 2       | 2       | 0       | 1        | 0      | 17    |
| WNW                   | 0                      | 1       | 1       | 0       | 3       | 2       | 0       | 1       | 4       | 0        | 0      | 12    |
| NW                    | 0                      | 0       | 0       | 0       | 1       | 3       | 5       | 5       | 1       | 0        | 1      | 16    |
| NNW                   | 0                      | 0       | 0       | 1       | 2       | 0       | 5       | 6       | 5       | 0        | 0      | 19    |
| Tot                   | 0                      | 1       | 7       | 13      | 33      | 24      | 27      | 23      | 14      | 1        | 1      | 144   |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 144  
 Hours of Missing Data . . . . . 4  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 9 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, July - September, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jul - Sep for years 2007 - 2007  
 Stability Class D Neutral based on Lapse Rate  
 Elevations:: Winds 270ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 1       | 2       | 3       | 12      | 3       | 9       | 9       | 4       | 0        | 0      | 43    |
| NNE                   | 0                      | 4       | 3       | 1       | 6       | 4       | 4       | 1       | 1       | 1        | 0      | 25    |
| NE                    | 0                      | 3       | 4       | 6       | 12      | 1       | 3       | 2       | 0       | 0        | 0      | 31    |
| ENE                   | 0                      | 3       | 1       | 3       | 5       | 7       | 2       | 1       | 0       | 0        | 0      | 22    |
| E                     | 0                      | 1       | 3       | 0       | 3       | 4       | 1       | 0       | 0       | 0        | 0      | 12    |
| ESE                   | 0                      | 1       | 3       | 2       | 3       | 0       | 0       | 0       | 0       | 0        | 0      | 9     |
| SE                    | 0                      | 1       | 4       | 2       | 5       | 0       | 0       | 1       | 0       | 0        | 0      | 13    |
| SSE                   | 0                      | 0       | 0       | 5       | 3       | 2       | 6       | 7       | 7       | 0        | 0      | 30    |
| S                     | 0                      | 0       | 7       | 3       | 12      | 12      | 16      | 6       | 1       | 0        | 0      | 57    |
| SSW                   | 0                      | 0       | 3       | 7       | 17      | 16      | 8       | 11      | 1       | 0        | 0      | 63    |
| SW                    | 0                      | 1       | 7       | 3       | 11      | 6       | 12      | 2       | 4       | 0        | 0      | 46    |
| WSW                   | 0                      | 1       | 6       | 4       | 3       | 9       | 4       | 3       | 0       | 0        | 0      | 30    |
| W                     | 0                      | 0       | 3       | 5       | 8       | 2       | 6       | 4       | 3       | 0        | 0      | 31    |
| WNW                   | 0                      | 1       | 1       | 4       | 8       | 8       | 6       | 12      | 7       | 7        | 1      | 55    |
| NW                    | 0                      | 2       | 0       | 2       | 6       | 7       | 8       | 3       | 7       | 12       | 1      | 48    |
| NNW                   | 0                      | 3       | 3       | 2       | 7       | 13      | 13      | 15      | 5       | 1        | 0      | 62    |
| Tot                   | 0                      | 22      | 50      | 52      | 121     | 94      | 98      | 77      | 40      | 21       | 2      | 577   |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 577  
 Hours of Missing Data . . . . . 4  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 9 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, July - September, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jul - Sep for years 2007 - 2007  
 Stability Class E Slightly Stable based on Lapse Rate  
 Elevations:: Winds 270ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 1       | 2       | 3       | 5       | 5       | 7       | 5       | 10      | 1        | 0      | 39    |
| NNE                   | 0                      | 1       | 0       | 4       | 7       | 7       | 5       | 1       | 2       | 0        | 0      | 27    |
| NE                    | 0                      | 1       | 4       | 2       | 3       | 14      | 4       | 2       | 0       | 0        | 0      | 30    |
| ENE                   | 0                      | 3       | 3       | 3       | 5       | 8       | 7       | 4       | 3       | 0        | 0      | 36    |
| E                     | 0                      | 6       | 4       | 4       | 3       | 1       | 2       | 4       | 4       | 0        | 0      | 28    |
| ESE                   | 0                      | 4       | 2       | 4       | 4       | 2       | 0       | 0       | 1       | 0        | 0      | 17    |
| SE                    | 1                      | 1       | 4       | 6       | 12      | 4       | 4       | 1       | 0       | 0        | 0      | 33    |
| SSE                   | 0                      | 1       | 0       | 2       | 10      | 7       | 15      | 11      | 4       | 0        | 0      | 50    |
| S                     | 0                      | 1       | 2       | 5       | 21      | 21      | 28      | 21      | 19      | 2        | 0      | 120   |
| SSW                   | 0                      | 1       | 1       | 3       | 28      | 29      | 21      | 7       | 7       | 3        | 0      | 100   |
| SW                    | 0                      | 1       | 0       | 7       | 14      | 14      | 8       | 6       | 4       | 0        | 0      | 54    |
| WSW                   | 0                      | 0       | 3       | 1       | 6       | 8       | 5       | 4       | 2       | 2        | 0      | 31    |
| W                     | 0                      | 4       | 1       | 6       | 6       | 7       | 8       | 4       | 1       | 2        | 0      | 39    |
| WNW                   | 0                      | 0       | 0       | 4       | 10      | 14      | 13      | 5       | 6       | 1        | 0      | 53    |
| NW                    | 0                      | 2       | 0       | 0       | 7       | 5       | 1       | 2       | 4       | 5        | 0      | 26    |
| NNW                   | 0                      | 4       | 2       | 4       | 10      | 10      | 5       | 9       | 5       | 1        | 0      | 50    |
| Tot                   | 1                      | 31      | 28      | 58      | 151     | 156     | 133     | 86      | 72      | 17       | 0      | 733   |

Hours of Calm . . . . . 1  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 734  
 Hours of Missing Data . . . . . 4  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 9 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, July - September, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jul - Sep for years 2007 - 2007  
 Stability Class F Moderately Stable based on Lapse Rate  
 Elevations:: Winds 270ft Stability 266ft

| Wind Direction<br>Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|--------------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                          | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                        | 0                      | 2       | 1       | 2       | 3       | 8       | 4       | 4       | 5       | 0        | 0      | 29    |
| NNE                      | 2                      | 1       | 1       | 2       | 5       | 2       | 2       | 0       | 0       | 0        | 0      | 15    |
| NE                       | 0                      | 2       | 2       | 1       | 0       | 3       | 1       | 0       | 0       | 0        | 0      | 9     |
| ENE                      | 0                      | 2       | 4       | 0       | 1       | 3       | 0       | 0       | 0       | 0        | 0      | 10    |
| E                        | 0                      | 0       | 1       | 2       | 1       | 1       | 2       | 0       | 1       | 0        | 0      | 8     |
| ESE                      | 0                      | 0       | 1       | 3       | 1       | 0       | 1       | 2       | 1       | 0        | 0      | 9     |
| SE                       | 0                      | 0       | 1       | 0       | 1       | 0       | 2       | 0       | 0       | 0        | 0      | 4     |
| SSE                      | 0                      | 1       | 1       | 0       | 3       | 0       | 1       | 1       | 0       | 0        | 0      | 7     |
| S                        | 0                      | 2       | 4       | 0       | 2       | 1       | 5       | 1       | 2       | 0        | 0      | 17    |
| SSW                      | 0                      | 1       | 4       | 2       | 6       | 4       | 5       | 3       | 0       | 0        | 0      | 25    |
| SW                       | 0                      | 3       | 4       | 2       | 5       | 9       | 5       | 4       | 0       | 0        | 0      | 32    |
| WSW                      | 0                      | 1       | 3       | 1       | 7       | 2       | 2       | 0       | 0       | 0        | 0      | 16    |
| W                        | 0                      | 1       | 1       | 3       | 7       | 3       | 1       | 5       | 0       | 0        | 0      | 21    |
| WNW                      | 0                      | 3       | 2       | 2       | 6       | 5       | 12      | 1       | 0       | 1        | 0      | 32    |
| NW                       | 0                      | 2       | 5       | 2       | 11      | 11      | 7       | 0       | 0       | 0        | 0      | 38    |
| NNW                      | 0                      | 0       | 4       | 3       | 14      | 7       | 2       | 4       | 0       | 0        | 0      | 34    |
| Tot                      | 2                      | 21      | 39      | 25      | 73      | 59      | 52      | 25      | 9       | 1        | 0      | 306   |

Hours of Calm . . . . . 4  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 310  
 Hours of Missing Data . . . . . 4  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 9 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, July - September, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jul - Sep for years 2007 - 2007  
 Stability Class G Extremely Stable based on Lapse Rate  
 Elevations:: Winds 270ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 1       | 0       | 5       | 4       | 3       | 1       | 0       | 0       | 0        | 0      | 14    |
| NNE                   | 0                      | 1       | 2       | 0       | 2       | 1       | 0       | 1       | 0       | 0        | 0      | 7     |
| NE                    | 0                      | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| ENE                   | 0                      | 0       | 2       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| E                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| ESE                   | 0                      | 0       | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| SE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SSE                   | 0                      | 1       | 0       | 0       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| S                     | 0                      | 0       | 1       | 0       | 1       | 0       | 0       | 0       | 1       | 0        | 0      | 3     |
| SSW                   | 0                      | 0       | 0       | 2       | 3       | 0       | 0       | 0       | 1       | 0        | 0      | 6     |
| SW                    | 0                      | 1       | 1       | 3       | 4       | 1       | 1       | 1       | 0       | 0        | 0      | 12    |
| WSW                   | 0                      | 0       | 5       | 2       | 8       | 1       | 1       | 0       | 0       | 0        | 0      | 17    |
| W                     | 0                      | 0       | 4       | 3       | 14      | 5       | 0       | 0       | 0       | 0        | 0      | 26    |
| WNW                   | 0                      | 0       | 3       | 7       | 16      | 9       | 9       | 4       | 1       | 0        | 0      | 49    |
| NW                    | 0                      | 1       | 2       | 5       | 7       | 5       | 0       | 0       | 0       | 0        | 0      | 20    |
| NNW                   | 0                      | 0       | 3       | 2       | 2       | 0       | 1       | 0       | 0       | 0        | 0      | 8     |
| Tot                   | 0                      | 6       | 23      | 30      | 62      | 25      | 13      | 6       | 3       | 0        | 0      | 168   |

Hours of Calm . . . . . 3  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 171  
 Hours of Missing Data . . . . . 4  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 10 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, October - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Oct - Dec for years 2007 - 2007  
 All Stabilities  
 Elevations:: Winds 30ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 42      | 12      | 14      | 21      | 12      | 5       | 0       | 0       | 0        | 0      | 106   |
| NNE                   | 0                      | 41      | 14      | 14      | 21      | 5       | 1       | 0       | 0       | 0        | 0      | 96    |
| NE                    | 0                      | 36      | 17      | 7       | 18      | 2       | 0       | 0       | 0       | 0        | 0      | 80    |
| ENE                   | 0                      | 28      | 27      | 22      | 64      | 15      | 1       | 0       | 0       | 0        | 0      | 157   |
| E                     | 0                      | 15      | 23      | 18      | 39      | 17      | 12      | 1       | 0       | 0        | 0      | 125   |
| ESE                   | 0                      | 12      | 11      | 8       | 10      | 1       | 3       | 2       | 0       | 0        | 0      | 47    |
| SE                    | 0                      | 6       | 4       | 3       | 15      | 2       | 0       | 0       | 0       | 0        | 0      | 30    |
| SSE                   | 0                      | 9       | 15      | 13      | 21      | 1       | 1       | 0       | 3       | 0        | 0      | 63    |
| S                     | 0                      | 13      | 10      | 30      | 40      | 11      | 2       | 1       | 2       | 0        | 0      | 109   |
| SSW                   | 0                      | 19      | 20      | 33      | 39      | 18      | 6       | 2       | 0       | 0        | 0      | 137   |
| SW                    | 2                      | 22      | 18      | 14      | 21      | 2       | 2       | 1       | 1       | 0        | 0      | 83    |
| WSW                   | 0                      | 33      | 33      | 13      | 16      | 3       | 3       | 2       | 0       | 0        | 0      | 103   |
| W                     | 0                      | 56      | 33      | 31      | 36      | 12      | 5       | 0       | 4       | 0        | 0      | 177   |
| WNW                   | 0                      | 65      | 57      | 33      | 88      | 38      | 15      | 16      | 17      | 3        | 0      | 332   |
| NW                    | 1                      | 66      | 28      | 32      | 43      | 57      | 58      | 39      | 49      | 4        | 0      | 377   |
| NNW                   | 2                      | 34      | 11      | 8       | 23      | 16      | 14      | 9       | 3       | 0        | 0      | 120   |
| Tot                   | 5                      | 497     | 333     | 293     | 515     | 212     | 128     | 73      | 79      | 7        | 0      | 2142  |

Hours of Calm . . . . . 60  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 2202  
 Hours of Missing Data . . . . . 6  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 10 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, October - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Oct - Dec for years 2007 - 2007  
 Stability Class A Extremely Unstable based on Lapse Rate  
 Elevations:: Winds 30ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| NNE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| NE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| ENE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| E                     | 0                      | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| ESE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SSE                   | 0                      | 0       | 0       | 0       | 2       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| S                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SSW                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SW                    | 0                      | 0       | 0       | 0       | 3       | 0       | 0       | 0       | 0       | 0        | 0      | 3     |
| WSW                   | 0                      | 0       | 0       | 0       | 2       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| W                     | 0                      | 0       | 0       | 0       | 4       | 1       | 0       | 0       | 0       | 0        | 0      | 5     |
| WNW                   | 0                      | 0       | 0       | 0       | 2       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| NW                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| NNW                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| Tot                   | 0                      | 0       | 1       | 0       | 13      | 1       | 0       | 0       | 0       | 0        | 0      | 15    |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 15  
 Hours of Missing Data . . . . . 6  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 10 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, October - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Oct - Dec for years 2007 - 2007  
 Stability Class B Moderately Unstable based on Lapse Rate  
 Elevations:: Winds 30ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| NNE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| NE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| ENE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| E                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| ESE                   | 0                      | 0       | 0       | 1       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| SE                    | 0                      | 0       | 0       | 0       | 2       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| SSE                   | 0                      | 0       | 0       | 0       | 3       | 0       | 0       | 0       | 0       | 0        | 0      | 3     |
| S                     | 0                      | 0       | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| SSW                   | 0                      | 0       | 0       | 2       | 0       | 6       | 0       | 0       | 0       | 0        | 0      | 8     |
| SW                    | 0                      | 0       | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| WSW                   | 0                      | 0       | 0       | 1       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| W                     | 0                      | 0       | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| WNW                   | 0                      | 0       | 0       | 0       | 0       | 2       | 0       | 0       | 0       | 0        | 0      | 2     |
| NW                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| NNW                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 2       | 0       | 0        | 0      | 2     |
| Tot                   | 0                      | 0       | 0       | 7       | 7       | 8       | 0       | 2       | 0       | 0        | 0      | 24    |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 24  
 Hours of Missing Data . . . . . 6  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
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Table D - 10 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, October - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Oct - Dec for years 2007 - 2007  
 Stability Class C Slightly Unstable based on Lapse Rate  
 Elevations:: Winds 30ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| NNE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| NE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| ENE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 0        | 0      | 1     |
| E                     | 0                      | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0        | 0      | 1     |
| ESE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SE                    | 0                      | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| SSE                   | 0                      | 0       | 0       | 2       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 3     |
| S                     | 0                      | 0       | 0       | 1       | 2       | 0       | 0       | 0       | 0       | 0        | 0      | 3     |
| SSW                   | 0                      | 0       | 0       | 0       | 4       | 2       | 0       | 0       | 0       | 0        | 0      | 6     |
| SW                    | 0                      | 0       | 0       | 0       | 1       | 0       | 1       | 0       | 0       | 0        | 0      | 2     |
| WSW                   | 0                      | 0       | 1       | 1       | 1       | 0       | 1       | 0       | 0       | 0        | 0      | 4     |
| W                     | 0                      | 0       | 0       | 1       | 5       | 0       | 0       | 0       | 0       | 0        | 0      | 6     |
| WNW                   | 0                      | 0       | 0       | 0       | 4       | 1       | 0       | 0       | 0       | 0        | 0      | 5     |
| NW                    | 0                      | 0       | 0       | 1       | 2       | 0       | 0       | 0       | 2       | 0        | 0      | 5     |
| NNW                   | 0                      | 0       | 0       | 0       | 0       | 1       | 1       | 0       | 0       | 0        | 0      | 2     |
| Tot                   | 0                      | 0       | 1       | 6       | 21      | 5       | 4       | 0       | 2       | 0        | 0      | 39    |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 39  
 Hours of Missing Data . . . . . 6  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
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Table D - 10 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, October - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Oct - Dec for years 2007 - 2007  
 Stability Class D Neutral based on Lapse Rate  
 Elevations:: Winds 30ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 3       | 3       | 6       | 12      | 8       | 5       | 0       | 0       | 0        | 0      | 37    |
| NNE                   | 0                      | 7       | 5       | 9       | 10      | 5       | 1       | 0       | 0       | 0        | 0      | 37    |
| NE                    | 0                      | 11      | 8       | 2       | 6       | 2       | 0       | 0       | 0       | 0        | 0      | 29    |
| ENE                   | 0                      | 4       | 11      | 12      | 56      | 12      | 0       | 0       | 0       | 0        | 0      | 95    |
| E                     | 0                      | 3       | 9       | 8       | 23      | 11      | 8       | 1       | 0       | 0        | 0      | 63    |
| ESE                   | 0                      | 3       | 4       | 4       | 5       | 0       | 2       | 1       | 0       | 0        | 0      | 19    |
| SE                    | 0                      | 0       | 1       | 0       | 3       | 0       | 0       | 0       | 0       | 0        | 0      | 4     |
| SSE                   | 0                      | 4       | 6       | 3       | 4       | 0       | 0       | 0       | 0       | 0        | 0      | 17    |
| S                     | 0                      | 1       | 4       | 8       | 11      | 6       | 0       | 0       | 0       | 0        | 0      | 30    |
| SSW                   | 0                      | 2       | 5       | 4       | 15      | 7       | 5       | 1       | 0       | 0        | 0      | 39    |
| SW                    | 0                      | 1       | 2       | 2       | 6       | 1       | 0       | 0       | 0       | 0        | 0      | 12    |
| WSW                   | 0                      | 4       | 5       | 5       | 4       | 2       | 2       | 0       | 0       | 0        | 0      | 22    |
| W                     | 0                      | 4       | 7       | 11      | 9       | 4       | 2       | 0       | 0       | 0        | 0      | 37    |
| WNW                   | 0                      | 5       | 8       | 11      | 40      | 14      | 10      | 12      | 16      | 3        | 0      | 119   |
| NW                    | 0                      | 4       | 10      | 11      | 20      | 32      | 40      | 33      | 45      | 4        | 0      | 199   |
| NNW                   | 0                      | 2       | 3       | 3       | 10      | 8       | 12      | 7       | 3       | 0        | 0      | 48    |
| Tot                   | 0                      | 58      | 91      | 99      | 234     | 112     | 87      | 55      | 64      | 7        | 0      | 807   |

Hours of Calm . . . . . 3  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 810  
 Hours of Missing Data . . . . . 6  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
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Table D - 10 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, October - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Oct - Dec for years 2007 - 2007  
 Stability Class E Slightly Stable based on Lapse Rate  
 Elevations:: Winds 30ft Stability 266ft

| Wind Direction Sector                 | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|---------------------------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                                     | 0                      | 22      | 7       | 8       | 9       | 4       | 0       | 0       | 0       | 0        | 0      | 50    |
| NNE                                   | 0                      | 16      | 8       | 5       | 11      | 0       | 0       | 0       | 0       | 0        | 0      | 40    |
| NE                                    | 0                      | 17      | 8       | 4       | 12      | 0       | 0       | 0       | 0       | 0        | 0      | 41    |
| ENE                                   | 0                      | 13      | 15      | 10      | 8       | 3       | 0       | 0       | 0       | 0        | 0      | 49    |
| E                                     | 0                      | 6       | 7       | 8       | 16      | 5       | 4       | 0       | 0       | 0        | 0      | 46    |
| ESE                                   | 0                      | 3       | 6       | 3       | 4       | 1       | 1       | 1       | 0       | 0        | 0      | 19    |
| SE                                    | 0                      | 1       | 3       | 3       | 9       | 2       | 0       | 0       | 0       | 0        | 0      | 18    |
| SSE                                   | 0                      | 3       | 8       | 8       | 11      | 1       | 1       | 0       | 3       | 0        | 0      | 35    |
| S                                     | 0                      | 9       | 5       | 18      | 27      | 5       | 2       | 1       | 2       | 0        | 0      | 69    |
| SSW                                   | 0                      | 9       | 13      | 20      | 19      | 3       | 1       | 1       | 0       | 0        | 0      | 66    |
| SW                                    | 2                      | 9       | 13      | 11      | 11      | 1       | 1       | 1       | 1       | 0        | 0      | 50    |
| WSW                                   | 0                      | 18      | 19      | 6       | 8       | 1       | 0       | 2       | 0       | 0        | 0      | 54    |
| W                                     | 0                      | 24      | 18      | 18      | 18      | 7       | 3       | 0       | 4       | 0        | 0      | 92    |
| WNW                                   | 0                      | 22      | 21      | 16      | 40      | 21      | 5       | 4       | 1       | 0        | 0      | 130   |
| NW                                    | 0                      | 18      | 7       | 10      | 19      | 25      | 18      | 6       | 2       | 0        | 0      | 105   |
| NNW                                   | 1                      | 6       | 6       | 5       | 12      | 7       | 1       | 0       | 0       | 0        | 0      | 38    |
| Tot                                   | 3                      | 196     | 164     | 153     | 234     | 86      | 37      | 16      | 13      | 0        | 0      | 902   |
| Hours of Calm . . . . .               |                        |         |         |         |         |         |         |         |         |          |        | 26    |
| Hours of Variable Direction . . . . . |                        |         |         |         |         |         |         |         |         |          |        | 0     |
| Hours of Valid Data . . . . .         |                        |         |         |         |         |         |         |         |         |          |        | 928   |
| Hours of Missing Data . . . . .       |                        |         |         |         |         |         |         |         |         |          |        | 6     |
| Hours in Period . . . . .             |                        |         |         |         |         |         |         |         |         |          |        | 2208  |

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
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Table D - 10 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, October - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Oct - Dec for years 2007 - 2007  
 Stability Class F Moderately Stable based on Lapse Rate  
 Elevations:: Winds 30ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 9       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 10    |
| NNE                   | 0                      | 11      | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 12    |
| NE                    | 0                      | 6       | 1       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 8     |
| ENE                   | 0                      | 8       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 9     |
| E                     | 0                      | 5       | 5       | 2       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 12    |
| ESE                   | 0                      | 4       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 5     |
| SE                    | 0                      | 2       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| SSE                   | 0                      | 2       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 3     |
| S                     | 0                      | 2       | 1       | 2       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 5     |
| SSW                   | 0                      | 6       | 2       | 7       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 16    |
| SW                    | 0                      | 10      | 3       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 13    |
| WSW                   | 0                      | 10      | 7       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 17    |
| W                     | 0                      | 17      | 6       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 23    |
| WNW                   | 0                      | 21      | 23      | 6       | 2       | 0       | 0       | 0       | 0       | 0        | 0      | 52    |
| NW                    | 0                      | 21      | 10      | 10      | 2       | 0       | 0       | 0       | 0       | 0        | 0      | 43    |
| NNW                   | 1                      | 14      | 2       | 0       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 18    |
| Tot                   | 1                      | 148     | 65      | 28      | 6       | 0       | 0       | 0       | 0       | 0        | 0      | 248   |

Hours of Calm . . . . . 13  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 261  
 Hours of Missing Data . . . . . 6  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 10 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, October - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Oct - Dec for years 2007 - 2007  
 Stability Class G Extremely Stable based on Lapse Rate  
 Elevations:: Winds 30ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 8       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 9     |
| NNE                   | 0                      | 7       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 7     |
| NE                    | 0                      | 2       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| ENE                   | 0                      | 3       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 3     |
| E                     | 0                      | 1       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| ESE                   | 0                      | 2       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| SE                    | 0                      | 3       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 3     |
| SSE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| S                     | 0                      | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| SSW                   | 0                      | 2       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| SW                    | 0                      | 2       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| WSW                   | 0                      | 1       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| W                     | 0                      | 11      | 2       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 13    |
| WNW                   | 0                      | 17      | 5       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 22    |
| NW                    | 1                      | 23      | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 25    |
| NNW                   | 0                      | 12      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 12    |
| Tot                   | 1                      | 95      | 11      | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 107   |

Hours of Calm . . . . . 18  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 125  
 Hours of Missing Data . . . . . 6  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 11 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, October - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Oct - Dec for years 2007 - 2007  
 All Stabilities  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 15      | 9       | 8       | 19      | 15      | 16      | 9       | 3       | 0        | 0      | 94    |
| NNE                   | 0                      | 10      | 14      | 11      | 21      | 21      | 16      | 4       | 1       | 0        | 0      | 98    |
| NE                    | 0                      | 13      | 16      | 14      | 18      | 17      | 11      | 0       | 0       | 0        | 0      | 89    |
| ENE                   | 0                      | 8       | 21      | 22      | 40      | 54      | 18      | 3       | 0       | 0        | 0      | 166   |
| E                     | 0                      | 10      | 24      | 12      | 20      | 16      | 20      | 6       | 7       | 0        | 0      | 115   |
| ESE                   | 0                      | 0       | 12      | 10      | 6       | 9       | 2       | 3       | 6       | 0        | 0      | 48    |
| SE                    | 0                      | 7       | 3       | 10      | 6       | 8       | 5       | 4       | 0       | 0        | 0      | 43    |
| SSE                   | 0                      | 1       | 8       | 6       | 16      | 11      | 19      | 5       | 1       | 1        | 3      | 71    |
| S                     | 1                      | 1       | 4       | 9       | 21      | 36      | 27      | 23      | 7       | 1        | 2      | 132   |
| SSW                   | 0                      | 4       | 5       | 7       | 27      | 33      | 31      | 15      | 10      | 7        | 0      | 139   |
| SW                    | 0                      | 6       | 11      | 16      | 33      | 26      | 10      | 9       | 8       | 1        | 3      | 123   |
| WSW                   | 0                      | 11      | 11      | 15      | 33      | 32      | 17      | 9       | 3       | 4        | 1      | 136   |
| W                     | 0                      | 11      | 8       | 11      | 35      | 40      | 29      | 35      | 21      | 7        | 10     | 207   |
| WNW                   | 0                      | 10      | 11      | 24      | 62      | 56      | 79      | 60      | 63      | 32       | 40     | 437   |
| NW                    | 0                      | 14      | 12      | 5       | 31      | 23      | 25      | 32      | 42      | 16       | 4      | 204   |
| NNW                   | 0                      | 13      | 13      | 6       | 13      | 15      | 12      | 12      | 8       | 0        | 0      | 92    |
| Tot                   | 1                      | 134     | 182     | 186     | 401     | 412     | 337     | 229     | 180     | 69       | 63     | 2194  |

Hours of Calm . . . . . 10  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 2204  
 Hours of Missing Data . . . . . 4  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 11 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, October - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Oct - Dec for years 2007 - 2007  
 Stability Class A Extremely Unstable based on Lapse Rate  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| NNE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| NE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| ENE                   | 0                      | 0       | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| E                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| ESE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SE                    | 0                      | 0       | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| SSE                   | 0                      | 0       | 0       | 0       | 0       | 3       | 1       | 1       | 0       | 0        | 0      | 5     |
| S                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 1       | 0       | 0        | 0      | 1     |
| SSW                   | 0                      | 0       | 0       | 1       | 1       | 0       | 1       | 4       | 0       | 0        | 0      | 7     |
| SW                    | 0                      | 0       | 0       | 0       | 1       | 3       | 1       | 0       | 0       | 0        | 0      | 5     |
| WSW                   | 0                      | 0       | 0       | 0       | 2       | 4       | 1       | 0       | 0       | 1        | 0      | 8     |
| W                     | 0                      | 0       | 0       | 0       | 1       | 3       | 3       | 5       | 0       | 0        | 0      | 12    |
| WNW                   | 0                      | 0       | 0       | 0       | 2       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| NW                    | 0                      | 0       | 0       | 0       | 2       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| NNW                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| Tot                   | 0                      | 0       | 0       | 3       | 10      | 13      | 7       | 11      | 0       | 1        | 0      | 45    |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 45  
 Hours of Missing Data . . . . . 4  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 11 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, October - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Oct - Dec for years 2007 - 2007  
 Stability Class B. Moderately Unstable based on Lapse Rate  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 1       | 2       | 0        | 0      | 3     |
| NNE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| NE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| ENE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 1       | 1       | 0       | 0        | 0      | 2     |
| E                     | 0                      | 1       | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| ESE                   | 0                      | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0        | 0      | 1     |
| SE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 0        | 0      | 1     |
| SSE                   | 0                      | 0       | 0       | 0       | 1       | 1       | 2       | 0       | 0       | 0        | 0      | 4     |
| S                     | 0                      | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0        | 0      | 1     |
| SSW                   | 0                      | 0       | 0       | 0       | 1       | 0       | 2       | 1       | 2       | 1        | 0      | 7     |
| SW                    | 0                      | 0       | 0       | 0       | 0       | 2       | 0       | 0       | 0       | 1        | 0      | 3     |
| WSW                   | 0                      | 0       | 0       | 0       | 2       | 4       | 2       | 0       | 0       | 0        | 0      | 8     |
| W                     | 0                      | 0       | 0       | 0       | 0       | 2       | 3       | 1       | 0       | 0        | 0      | 6     |
| WNW                   | 0                      | 0       | 0       | 0       | 1       | 1       | 1       | 1       | 1       | 0        | 0      | 5     |
| NW                    | 0                      | 0       | 0       | 0       | 1       | 0       | 0       | 1       | 1       | 0        | 0      | 3     |
| NNW                   | 0                      | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 1       | 0        | 0      | 2     |
| Tot                   | 0                      | 1       | 0       | 1       | 7       | 12      | 12      | 6       | 7       | 2        | 0      | 48    |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 48  
 Hours of Missing Data . . . . . 4  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 11 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, October - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Oct - Dec for years 2007 - 2007  
 Stability Class C Slightly Unstable based on Lapse Rate  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0        | 0      | 1     |
| NNE                   | 0                      | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| NE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 0        | 0      | 1     |
| ENE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 0        | 0      | 1     |
| E                     | 0                      | 0       | 1       | 0       | 0       | 0       | 2       | 0       | 0       | 0        | 0      | 3     |
| ESE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SSE                   | 0                      | 0       | 0       | 0       | 2       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| S                     | 0                      | 0       | 0       | 2       | 2       | 0       | 1       | 1       | 0       | 0        | 0      | 6     |
| SSW                   | 0                      | 0       | 0       | 0       | 2       | 2       | 2       | 2       | 0       | 2        | 0      | 10    |
| SW                    | 0                      | 0       | 0       | 0       | 1       | 3       | 0       | 0       | 0       | 0        | 0      | 4     |
| WSW                   | 0                      | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 2       | 0        | 0      | 3     |
| W                     | 0                      | 0       | 0       | 2       | 3       | 2       | 2       | 0       | 1       | 1        | 0      | 11    |
| WNW                   | 0                      | 0       | 0       | 1       | 2       | 4       | 3       | 5       | 1       | 0        | 4      | 20    |
| NW                    | 0                      | 0       | 0       | 1       | 1       | 0       | 0       | 5       | 6       | 1        | 2      | 16    |
| NNW                   | 0                      | 1       | 0       | 0       | 0       | 1       | 0       | 1       | 0       | 0        | 0      | 3     |
| Tot                   | 0                      | 1       | 1       | 6       | 14      | 14      | 12      | 14      | 10      | 4        | 6      | 82    |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 82  
 Hours of Missing Data . . . . . 4  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 11 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, October - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Oct - Dec for years 2007 - 2007  
 Stability Class D Neutral based on Lapse Rate  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 2       | 1       | 4       | 6       | 6       | 9       | 5       | 1       | 0        | 0      | 34    |
| NNE                   | 0                      | 4       | 5       | 6       | 7       | 11      | 5       | 4       | 0       | 0        | 0      | 42    |
| NE                    | 0                      | 3       | 7       | 8       | 11      | 10      | 4       | 0       | 0       | 0        | 0      | 43    |
| ENE                   | 0                      | 3       | 6       | 7       | 23      | 43      | 10      | 2       | 0       | 0        | 0      | 94    |
| E                     | 0                      | 3       | 11      | 7       | 15      | 11      | 5       | 3       | 7       | 0        | 0      | 62    |
| ESE                   | 0                      | 0       | 2       | 2       | 4       | 4       | 0       | 0       | 3       | 0        | 0      | 15    |
| SE                    | 0                      | 0       | 0       | 3       | 0       | 3       | 0       | 1       | 0       | 0        | 0      | 7     |
| SSE                   | 0                      | 0       | 3       | 2       | 5       | 2       | 4       | 0       | 0       | 0        | 0      | 16    |
| S                     | 0                      | 1       | 0       | 2       | 10      | 6       | 5       | 4       | 0       | 0        | 0      | 28    |
| SSW                   | 0                      | 1       | 2       | 0       | 3       | 7       | 5       | 1       | 5       | 2        | 0      | 26    |
| SW                    | 0                      | 1       | 2       | 4       | 2       | 3       | 2       | 2       | 3       | 0        | 0      | 19    |
| WSW                   | 0                      | 3       | 3       | 1       | 8       | 6       | 0       | 0       | 1       | 1        | 0      | 23    |
| W                     | 0                      | 2       | 0       | 1       | 8       | 7       | 7       | 3       | 7       | 6        | 7      | 48    |
| WNW                   | 0                      | 0       | 1       | 5       | 19      | 10      | 19      | 23      | 28      | 27       | 35     | 167   |
| NW                    | 0                      | 3       | 2       | 1       | 6       | 6       | 9       | 18      | 29      | 14       | 2      | 90    |
| NNW                   | 0                      | 8       | 1       | 4       | 3       | 7       | 5       | 6       | 7       | 0        | 0      | 41    |
| Tot                   | 0                      | 34      | 46      | 57      | 130     | 142     | 89      | 72      | 91      | 50       | 44     | 755   |

Hours of Calm . . . . . 1  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 756  
 Hours of Missing Data . . . . . 4  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 11 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, October - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Oct - Dec for years 2007 - 2007  
 Stability Class E Slightly Stable based on Lapse Rate  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 7       | 5       | 2       | 6       | 6       | 5       | 2       | 0       | 0        | 0      | 33    |
| NNE                   | 0                      | 4       | 7       | 3       | 9       | 8       | 11      | 0       | 1       | 0        | 0      | 43    |
| NE                    | 0                      | 5       | 5       | 5       | 5       | 7       | 6       | 0       | 0       | 0        | 0      | 33    |
| ENE                   | 0                      | 2       | 5       | 13      | 14      | 11      | 6       | 0       | 0       | 0        | 0      | 51    |
| E                     | 0                      | 0       | 8       | 3       | 2       | 4       | 11      | 3       | 0       | 0        | 0      | 31    |
| ESE                   | 0                      | 0       | 5       | 6       | 0       | 3       | 2       | 3       | 3       | 0        | 0      | 22    |
| SE                    | 0                      | 1       | 0       | 4       | 5       | 4       | 4       | 3       | 0       | 0        | 0      | 21    |
| SSE                   | 0                      | 1       | 1       | 2       | 3       | 4       | 11      | 3       | 1       | 1        | 3      | 30    |
| S                     | 0                      | 0       | 2       | 3       | 7       | 28      | 18      | 15      | 7       | 1        | 2      | 83    |
| SSW                   | 0                      | 1       | 0       | 2       | 12      | 19      | 15      | 4       | 3       | 2        | 0      | 58    |
| SW                    | 0                      | 3       | 2       | 8       | 16      | 10      | 6       | 7       | 4       | 0        | 3      | 59    |
| WSW                   | 0                      | 5       | 2       | 6       | 7       | 9       | 11      | 7       | 0       | 2        | 1      | 50    |
| W                     | 0                      | 6       | 5       | 4       | 9       | 12      | 9       | 23      | 13      | 0        | 3      | 84    |
| WNW                   | 0                      | 7       | 6       | 9       | 11      | 11      | 25      | 26      | 31      | 5        | 1      | 132   |
| NW                    | 0                      | 7       | 5       | 2       | 7       | 7       | 8       | 7       | 5       | 1        | 0      | 49    |
| NNW                   | 0                      | 1       | 7       | 0       | 6       | 7       | 3       | 5       | 0       | 0        | 0      | 29    |
| Tot                   | 0                      | 50      | 65      | 72      | 119     | 150     | 151     | 108     | 68      | 12       | 13     | 808   |

Hours of Calm . . . . . 5  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 813  
 Hours of Missing Data . . . . . 4  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 11 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, October - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Oct - Dec for years 2007 - 2007  
 Stability Class F Moderately Stable based on Lapse Rate  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 4       | 2       | 0       | 2       | 1       | 1       | 1       | 0       | 0        | 0      | 11    |
| NNE                   | 0                      | 0       | 1       | 1       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 3     |
| NE                    | 0                      | 3       | 3       | 1       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 8     |
| ENE                   | 0                      | 0       | 8       | 1       | 2       | 0       | 0       | 0       | 0       | 0        | 0      | 11    |
| E                     | 0                      | 2       | 3       | 1       | 2       | 1       | 2       | 0       | 0       | 0        | 0      | 11    |
| ESE                   | 0                      | 0       | 4       | 0       | 2       | 0       | 0       | 0       | 0       | 0        | 0      | 6     |
| SE                    | 0                      | 2       | 2       | 1       | 1       | 1       | 0       | 0       | 0       | 0        | 0      | 7     |
| SSE                   | 0                      | 0       | 2       | 1       | 5       | 1       | 1       | 1       | 0       | 0        | 0      | 11    |
| S                     | 0                      | 0       | 1       | 1       | 1       | 1       | 3       | 2       | 0       | 0        | 0      | 9     |
| SSW                   | 0                      | 1       | 1       | 1       | 5       | 5       | 5       | 2       | 0       | 0        | 0      | 20    |
| SW                    | 0                      | 2       | 5       | 2       | 5       | 3       | 1       | 0       | 1       | 0        | 0      | 19    |
| WSW                   | 0                      | 0       | 1       | 3       | 8       | 6       | 2       | 2       | 0       | 0        | 0      | 22    |
| W                     | 0                      | 1       | 0       | 2       | 9       | 8       | 4       | 3       | 0       | 0        | 0      | 27    |
| WNW                   | 0                      | 2       | 0       | 4       | 12      | 21      | 28      | 3       | 1       | 0        | 0      | 71    |
| NW                    | 0                      | 0       | 1       | 0       | 8       | 7       | 7       | 0       | 1       | 0        | 0      | 24    |
| NNW                   | 0                      | 1       | 2       | 1       | 1       | 0       | 2       | 0       | 0       | 0        | 0      | 7     |
| Tot                   | 0                      | 18      | 36      | 20      | 65      | 55      | 56      | 14      | 3       | 0        | 0      | 267   |

Hours of Calm . . . . . 2  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 269  
 Hours of Missing Data . . . . . 4  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 11 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, October - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Oct - Dec for years 2007 - 2007  
 Stability Class G Extremely Stable based on Lapse Rate  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 2       | 1       | 2       | 4       | 1       | 1       | 0       | 0       | 0        | 0      | 11    |
| NNE                   | 0                      | 2       | 1       | 1       | 3       | 2       | 0       | 0       | 0       | 0        | 0      | 9     |
| NE                    | 0                      | 2       | 1       | 0       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 4     |
| ENE                   | 0                      | 3       | 2       | 0       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 6     |
| E                     | 0                      | 4       | 1       | 0       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 6     |
| ESE                   | 0                      | 0       | 1       | 2       | 0       | 1       | 0       | 0       | 0       | 0        | 0      | 4     |
| SE                    | 0                      | 4       | 1       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 6     |
| SSE                   | 0                      | 0       | 2       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 3     |
| S                     | 1                      | 0       | 1       | 1       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 4     |
| SSW                   | 0                      | 1       | 2       | 3       | 3       | 0       | 1       | 1       | 0       | 0        | 0      | 11    |
| SW                    | 0                      | 0       | 2       | 2       | 8       | 2       | 0       | 0       | 0       | 0        | 0      | 14    |
| WSW                   | 0                      | 3       | 5       | 5       | 6       | 2       | 1       | 0       | 0       | 0        | 0      | 22    |
| W                     | 0                      | 2       | 3       | 2       | 5       | 6       | 1       | 0       | 0       | 0        | 0      | 19    |
| WNW                   | 0                      | 1       | 4       | 5       | 15      | 9       | 3       | 2       | 1       | 0        | 0      | 40    |
| NW                    | 0                      | 4       | 4       | 1       | 6       | 3       | 1       | 1       | 0       | 0        | 0      | 20    |
| NNW                   | 0                      | 2       | 3       | 1       | 2       | 0       | 2       | 0       | 0       | 0        | 0      | 10    |
| Tot                   | 1                      | 30      | 34      | 27      | 56      | 26      | 10      | 4       | 1       | 0        | 0      | 189   |

Hours of Calm . . . . . 2  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 191  
 Hours of Missing Data . . . . . 4  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 12 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, October - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Oct - Dec for years 2007 - 2007  
 All Stabilities  
 Elevations:: Winds 270ft      Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 12      | 6       | 8       | 12      | 23      | 12      | 16      | 5       | 0        | 0      | 94    |
| NNE                   | 0                      | 10      | 11      | 5       | 13      | 22      | 16      | 11      | 4       | 0        | 0      | 92    |
| NE                    | 0                      | 5       | 10      | 17      | 22      | 31      | 19      | 7       | 0       | 0        | 0      | 111   |
| ENE                   | 0                      | 9       | 13      | 13      | 32      | 38      | 30      | 15      | 2       | 0        | 0      | 152   |
| E                     | 0                      | 6       | 14      | 10      | 17      | 11      | 8       | 12      | 11      | 2        | 0      | 91    |
| ESE                   | 0                      | 2       | 10      | 9       | 12      | 8       | 0       | 4       | 4       | 4        | 0      | 53    |
| SE                    | 0                      | 4       | 5       | 11      | 7       | 6       | 7       | 5       | 2       | 0        | 0      | 47    |
| SSE                   | 1                      | 3       | 9       | 11      | 14      | 14      | 8       | 11      | 6       | 4        | 4      | 85    |
| S                     | 0                      | 3       | 1       | 4       | 17      | 22      | 38      | 26      | 33      | 0        | 3      | 147   |
| SSW                   | 0                      | 4       | 6       | 4       | 29      | 34      | 31      | 21      | 11      | 7        | 3      | 150   |
| SW                    | 0                      | 3       | 8       | 11      | 28      | 28      | 18      | 8       | 10      | 3        | 3      | 120   |
| WSW                   | 0                      | 7       | 8       | 9       | 28      | 35      | 17      | 16      | 15      | 6        | 2      | 143   |
| W                     | 0                      | 5       | 9       | 14      | 29      | 42      | 41      | 40      | 55      | 12       | 24     | 271   |
| WNW                   | 1                      | 1       | 8       | 16      | 27      | 43      | 53      | 59      | 72      | 44       | 48     | 372   |
| NW                    | 0                      | 7       | 6       | 6       | 17      | 20      | 18      | 24      | 53      | 19       | 7      | 177   |
| NNW                   | 0                      | 10      | 12      | 4       | 9       | 9       | 12      | 18      | 14      | 0        | 0      | 88    |
| Tot                   | 2                      | 91      | 136     | 152     | 313     | 386     | 328     | 293     | 297     | 101      | 94     | 2193  |

Hours of Calm . . . . . 8  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 2201  
 Hours of Missing Data . . . . . 7  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 12 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, October - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Oct - Dec for years 2007 - 2007  
 Stability Class A Extremely Unstable based on Lapse Rate  
 Elevations:: Winds 270ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          | Total |        |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|-------|--------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 |       | >10.00 |
| N                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0     | 0      |
| NNE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0     | 0      |
| NE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0     | 0      |
| ENE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0     | 0      |
| E                     | 0                      | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0     | 1      |
| ESE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0     | 0      |
| SE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0     | 0      |
| SSE                   | 0                      | 0       | 0       | 0       | 0       | 2       | 0       | 0       | 0       | 0        | 0     | 2      |
| S                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0     | 0      |
| SSW                   | 0                      | 0       | 0       | 0       | 1       | 1       | 0       | 1       | 0       | 0        | 0     | 3      |
| SW                    | 0                      | 0       | 0       | 0       | 0       | 0       | 2       | 0       | 0       | 0        | 0     | 2      |
| WSW                   | 0                      | 0       | 0       | 0       | 0       | 1       | 1       | 1       | 0       | 0        | 0     | 3      |
| W                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 4       | 0       | 0        | 0     | 4      |
| WNW                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0     | 0      |
| NW                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0     | 0      |
| NNW                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0     | 0      |
| Tot                   | 0                      | 0       | 1       | 0       | 1       | 4       | 3       | 6       | 0       | 0        | 0     | 15     |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 15  
 Hours of Missing Data . . . . . 7  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
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Table D - 12 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, October - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Oct - Dec for years 2007 - 2007  
 Stability Class B Moderately Unstable based on Lapse Rate  
 Elevations:: Winds 270ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| NNE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| NE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| ENE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| E                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| ESE                   | 0                      | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0        | 0      | 1     |
| SE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 3       | 0       | 0       | 0        | 0      | 3     |
| SSE                   | 0                      | 0       | 1       | 0       | 1       | 1       | 1       | 0       | 0       | 0        | 0      | 4     |
| S                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 1       | 3       | 0        | 0      | 4     |
| SSW                   | 0                      | 0       | 0       | 0       | 2       | 0       | 0       | 1       | 1       | 0        | 0      | 4     |
| SW                    | 0                      | 0       | 0       | 0       | 2       | 1       | 0       | 0       | 0       | 0        | 0      | 3     |
| WSW                   | 0                      | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| W                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 2       | 0        | 0      | 2     |
| WNW                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| NW                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| NNW                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 2       | 0        | 0      | 2     |
| Tot                   | 0                      | 0       | 1       | 0       | 6       | 3       | 4       | 2       | 8       | 0        | 0      | 24    |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 24  
 Hours of Missing Data . . . . . 7  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
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Table D - 12 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, October - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Oct - Dec for years 2007 - 2007  
 Stability Class C Slightly Unstable based on Lapse Rate  
 Elevations:: Winds 270ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| NNE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| NE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| ENE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 1       | 1       | 0       | 0        | 0      | 2     |
| E                     | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| ESE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| SE                    | 0                      | 0       | 0       | 0       | 1       | 1       | 0       | 1       | 0       | 0        | 0      | 3     |
| SSE                   | 0                      | 0       | 0       | 0       | 0       | 1       | 1       | 0       | 0       | 0        | 0      | 2     |
| S                     | 0                      | 0       | 0       | 0       | 0       | 1       | 2       | 0       | 1       | 0        | 0      | 4     |
| SSW                   | 0                      | 0       | 0       | 0       | 1       | 1       | 1       | 1       | 1       | 1        | 0      | 6     |
| SW                    | 0                      | 0       | 0       | 0       | 0       | 2       | 1       | 0       | 0       | 0        | 0      | 3     |
| WSW                   | 0                      | 0       | 0       | 0       | 1       | 3       | 0       | 0       | 0       | 1        | 0      | 5     |
| W                     | 0                      | 0       | 0       | 0       | 1       | 4       | 2       | 1       | 0       | 0        | 0      | 8     |
| WNW                   | 0                      | 0       | 0       | 0       | 2       | 0       | 0       | 0       | 0       | 0        | 1      | 3     |
| NW                    | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 1       | 0       | 0        | 1      | 2     |
| NNW                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 1       | 0        | 0      | 1     |
| Tot                   | 0                      | 0       | 0       | 0       | 6       | 13      | 8       | 5       | 3       | 2        | 2      | 39    |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 39  
 Hours of Missing Data . . . . . 7  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 12 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, October - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Oct - Dec for years 2007 - 2007  
 Stability Class D Neutral based on Lapse Rate  
 Elevations:: Winds 270ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 1       | 2       | 2       | 5       | 9       | 5       | 6       | 2       | 0        | 0      | 32    |
| NNE                   | 0                      | 5       | 3       | 1       | 5       | 8       | 9       | 0       | 4       | 0        | 0      | 35    |
| NE                    | 0                      | 1       | 4       | 8       | 8       | 24      | 11      | 2       | 0       | 0        | 0      | 58    |
| ENE                   | 0                      | 3       | 4       | 4       | 12      | 28      | 20      | 9       | 1       | 0        | 0      | 81    |
| E                     | 0                      | 1       | 8       | 5       | 10      | 8       | 7       | 3       | 7       | 2        | 0      | 51    |
| ESE                   | 0                      | 1       | 4       | 4       | 3       | 4       | 0       | 0       | 1       | 1        | 0      | 18    |
| SE                    | 0                      | 1       | 0       | 2       | 1       | 1       | 0       | 2       | 0       | 0        | 0      | 7     |
| SSE                   | 0                      | 0       | 2       | 2       | 6       | 1       | 1       | 5       | 1       | 0        | 0      | 18    |
| S                     | 0                      | 1       | 0       | 4       | 9       | 4       | 12      | 2       | 7       | 0        | 0      | 39    |
| SSW                   | 0                      | 1       | 2       | 3       | 6       | 7       | 6       | 5       | 2       | 6        | 1      | 39    |
| SW                    | 0                      | 1       | 3       | 4       | 2       | 5       | 4       | 0       | 3       | 2        | 0      | 24    |
| WSW                   | 0                      | 0       | 1       | 1       | 5       | 9       | 5       | 0       | 5       | 3        | 0      | 29    |
| W                     | 0                      | 2       | 2       | 4       | 10      | 13      | 18      | 10      | 15      | 6        | 18     | 98    |
| WNW                   | 0                      | 0       | 0       | 5       | 12      | 13      | 12      | 15      | 31      | 24       | 42     | 154   |
| NW                    | 0                      | 0       | 1       | 0       | 6       | 5       | 6       | 10      | 39      | 17       | 6      | 90    |
| NNW                   | 0                      | 4       | 2       | 1       | 7       | 3       | 6       | 6       | 7       | 0        | 0      | 36    |
| Tot                   | 0                      | 22      | 38      | 50      | 107     | 142     | 122     | 75      | 125     | 61       | 67     | 809   |

Hours of Calm . . . . . 1  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 810  
 Hours of Missing Data . . . . . 7  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 12 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, October - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Oct - Dec for years 2007 - 2007  
 Stability Class E Slightly Stable based on Lapse Rate  
 Elevations:: Winds 270ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 6       | 1       | 4       | 3       | 10      | 6       | 10      | 2       | 0        | 0      | 42    |
| NNE                   | 0                      | 4       | 4       | 4       | 6       | 8       | 5       | 10      | 0       | 0        | 0      | 41    |
| NE                    | 0                      | 3       | 4       | 6       | 13      | 4       | 8       | 5       | 0       | 0        | 0      | 43    |
| ENE                   | 0                      | 3       | 5       | 5       | 16      | 10      | 9       | 5       | 1       | 0        | 0      | 54    |
| E                     | 0                      | 4       | 2       | 4       | 5       | 3       | 0       | 8       | 4       | 0        | 0      | 30    |
| ESE                   | 0                      | 0       | 3       | 4       | 8       | 2       | 0       | 4       | 3       | 3        | 0      | 27    |
| SE                    | 0                      | 1       | 1       | 7       | 4       | 3       | 4       | 2       | 2       | 0        | 0      | 24    |
| SSE                   | 0                      | 2       | 1       | 5       | 5       | 5       | 5       | 6       | 5       | 4        | 4      | 42    |
| S                     | 0                      | 2       | 1       | 0       | 6       | 14      | 24      | 22      | 18      | 0        | 3      | 90    |
| SSW                   | 0                      | 0       | 1       | 0       | 12      | 20      | 22      | 10      | 6       | 0        | 2      | 73    |
| SW                    | 0                      | 2       | 2       | 5       | 14      | 11      | 7       | 8       | 7       | 1        | 3      | 60    |
| WSW                   | 0                      | 6       | 3       | 6       | 11      | 10      | 6       | 11      | 9       | 2        | 2      | 66    |
| W                     | 0                      | 2       | 4       | 4       | 4       | 13      | 12      | 16      | 33      | 6        | 6      | 100   |
| WNW                   | 1                      | 1       | 2       | 9       | 9       | 15      | 18      | 27      | 34      | 20       | 5      | 141   |
| NW                    | 0                      | 3       | 2       | 4       | 5       | 7       | 8       | 8       | 12      | 2        | 0      | 51    |
| NNW                   | 0                      | 6       | 5       | 3       | 1       | 5       | 6       | 9       | 4       | 0        | 0      | 39    |
| Tot                   | 1                      | 45      | 41      | 70      | 122     | 140     | 140     | 161     | 140     | 38       | 25     | 923   |

Hours of Calm . . . . . 3  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 926  
 Hours of Missing Data . . . . . 7  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 12 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, October - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Oct - Dec for years 2007 - 2007  
 Stability Class F Moderately Stable based on Lapse Rate  
 Elevations:: Winds 270ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 4       | 2       | 2       | 1       | 3       | 0       | 0       | 1       | 0        | 0      | 13    |
| NNE                   | 0                      | 1       | 3       | 0       | 2       | 3       | 2       | 1       | 0       | 0        | 0      | 12    |
| NE                    | 0                      | 1       | 1       | 3       | 1       | 3       | 0       | 0       | 0       | 0        | 0      | 9     |
| ENE                   | 0                      | 1       | 4       | 4       | 3       | 0       | 0       | 0       | 0       | 0        | 0      | 12    |
| E                     | 0                      | 1       | 2       | 1       | 2       | 0       | 1       | 1       | 0       | 0        | 0      | 8     |
| ESE                   | 0                      | 0       | 1       | 1       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 3     |
| SE                    | 0                      | 0       | 2       | 2       | 1       | 1       | 0       | 0       | 0       | 0        | 0      | 6     |
| SSE                   | 0                      | 0       | 3       | 2       | 2       | 4       | 0       | 0       | 0       | 0        | 0      | 11    |
| S                     | 0                      | 0       | 0       | 0       | 1       | 2       | 0       | 1       | 4       | 0        | 0      | 8     |
| SSW                   | 0                      | 2       | 3       | 1       | 5       | 3       | 1       | 3       | 1       | 0        | 0      | 19    |
| SW                    | 0                      | 0       | 2       | 1       | 7       | 3       | 2       | 0       | 0       | 0        | 0      | 15    |
| WSW                   | 0                      | 1       | 3       | 1       | 7       | 10      | 4       | 3       | 1       | 0        | 0      | 30    |
| W                     | 0                      | 0       | 0       | 2       | 7       | 6       | 5       | 9       | 4       | 0        | 0      | 33    |
| WNW                   | 0                      | 0       | 1       | 0       | 1       | 12      | 15      | 16      | 7       | 0        | 0      | 52    |
| NW                    | 0                      | 1       | 2       | 0       | 5       | 4       | 4       | 5       | 2       | 0        | 0      | 23    |
| NNW                   | 0                      | 0       | 3       | 0       | 1       | 0       | 0       | 1       | 0       | 0        | 0      | 5     |
| Tot                   | 0                      | 12      | 32      | 20      | 47      | 54      | 34      | 40      | 20      | 0        | 0      | 259   |

Hours of Calm . . . . . 2  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 261  
 Hours of Missing Data . . . . . 7  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 12 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, October - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Oct - Dec for years 2007 - 2007  
 Stability Class G Extremely Stable based on Lapse Rate  
 Elevations:: Winds 270ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 1       | 1       | 0       | 3       | 1       | 1       | 0       | 0       | 0        | 0      | 7     |
| NNE                   | 0                      | 0       | 1       | 0       | 0       | 3       | 0       | 0       | 0       | 0        | 0      | 4     |
| NE                    | 0                      | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| ENE                   | 0                      | 2       | 0       | 0       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 3     |
| E                     | 0                      | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| ESE                   | 0                      | 1       | 2       | 0       | 0       | 1       | 0       | 0       | 0       | 0        | 0      | 4     |
| SE                    | 0                      | 2       | 2       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 4     |
| SSE                   | 1                      | 1       | 2       | 2       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 6     |
| S                     | 0                      | 0       | 0       | 0       | 1       | 1       | 0       | 0       | 0       | 0        | 0      | 2     |
| SSW                   | 0                      | 1       | 0       | 0       | 2       | 2       | 1       | 0       | 0       | 0        | 0      | 6     |
| SW                    | 0                      | 0       | 1       | 1       | 3       | 6       | 2       | 0       | 0       | 0        | 0      | 13    |
| WSW                   | 0                      | 0       | 1       | 1       | 3       | 2       | 1       | 1       | 0       | 0        | 0      | 9     |
| W                     | 0                      | 1       | 3       | 4       | 7       | 6       | 4       | 0       | 1       | 0        | 0      | 26    |
| WNW                   | 0                      | 0       | 5       | 2       | 3       | 3       | 8       | 1       | 0       | 0        | 0      | 22    |
| NW                    | 0                      | 3       | 1       | 2       | 1       | 4       | 0       | 0       | 0       | 0        | 0      | 11    |
| NNW                   | 0                      | 0       | 2       | 0       | 0       | 1       | 0       | 2       | 0       | 0        | 0      | 5     |
| Tot                   | 1                      | 12      | 23      | 12      | 24      | 30      | 17      | 4       | 1       | 0        | 0      | 124   |

Hours of Calm . . . . . 2  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 126  
 Hours of Missing Data . . . . . 7  
 Hours in Period . . . . . 2208

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 13 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, January - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Dec for years 2007 - 2007  
 All Stabilities  
 Elevations:: Winds 30ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 1                      | 126     | 39      | 48      | 87      | 85      | 40      | 13      | 2       | 0        | 0      | 441   |
| NNE                   | 2                      | 102     | 56      | 53      | 77      | 41      | 12      | 5       | 2       | 0        | 0      | 350   |
| NE                    | 0                      | 96      | 53      | 39      | 79      | 31      | 9       | 2       | 0       | 0        | 0      | 309   |
| ENE                   | 1                      | 83      | 82      | 78      | 148     | 51      | 8       | 1       | 0       | 0        | 0      | 452   |
| E                     | 2                      | 41      | 59      | 50      | 89      | 68      | 25      | 8       | 0       | 0        | 0      | 342   |
| ESE                   | 0                      | 43      | 53      | 30      | 39      | 18      | 15      | 8       | 9       | 0        | 0      | 215   |
| SE                    | 0                      | 32      | 36      | 23      | 26      | 5       | 0       | 1       | 0       | 0        | 0      | 123   |
| SSE                   | 0                      | 34      | 59      | 49      | 71      | 9       | 4       | 0       | 4       | 0        | 0      | 230   |
| S                     | 0                      | 44      | 76      | 105     | 175     | 65      | 8       | 1       | 2       | 0        | 0      | 476   |
| SSW                   | 1                      | 59      | 103     | 132     | 230     | 78      | 27      | 2       | 0       | 0        | 0      | 632   |
| SW                    | 3                      | 105     | 118     | 92      | 128     | 30      | 6       | 1       | 1       | 0        | 0      | 484   |
| WSW                   | 1                      | 145     | 120     | 74      | 97      | 23      | 6       | 2       | 0       | 0        | 0      | 468   |
| W                     | 2                      | 199     | 132     | 103     | 152     | 86      | 54      | 16      | 13      | 1        | 0      | 758   |
| WNW                   | 1                      | 239     | 185     | 114     | 236     | 148     | 132     | 104     | 96      | 12       | 0      | 1267  |
| NW                    | 5                      | 228     | 111     | 81      | 148     | 183     | 159     | 159     | 210     | 68       | 26     | 1378  |
| NNW                   | 6                      | 123     | 52      | 34      | 102     | 93      | 81      | 34      | 11      | 0        | 0      | 536   |
| Tot                   | 25                     | 1699    | 1334    | 1105    | 1884    | 1014    | 586     | 357     | 350     | 81       | 26     | 8461  |

Hours of Calm . . . . . 264  
 Hours of Variable Direction . . . . . 1  
 Hours of Valid Data . . . . . 8726  
 Hours of Missing Data . . . . . 34  
 Hours in Period . . . . . 8760

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 13 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, January - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Dec for years 2007 - 2007  
 Stability Class A Extremely Unstable based on Lapse Rate  
 Elevations:: Winds 30ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          | Total |        |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|-------|--------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 |       | >10.00 |
| N                     | 0                      | 0       | 0       | 0       | 3       | 2       | 0       | 0       | 0       | 0        | 0     | 5      |
| NNE                   | 0                      | 0       | 0       | 0       | 1       | 4       | 2       | 0       | 0       | 0        | 0     | 7      |
| NE                    | 0                      | 0       | 0       | 0       | 2       | 0       | 1       | 0       | 0       | 0        | 0     | 3      |
| ENE                   | 0                      | 0       | 0       | 2       | 2       | 1       | 0       | 0       | 0       | 0        | 0     | 5      |
| E                     | 0                      | 0       | 1       | 0       | 1       | 0       | 0       | 0       | 0       | 0        | 0     | 2      |
| ESE                   | 0                      | 0       | 0       | 2       | 2       | 0       | 0       | 0       | 0       | 0        | 0     | 4      |
| SE                    | 0                      | 0       | 1       | 1       | 1       | 0       | 0       | 0       | 0       | 0        | 0     | 3      |
| SSE                   | 0                      | 0       | 0       | 2       | 6       | 2       | 0       | 0       | 0       | 0        | 0     | 10     |
| S                     | 0                      | 0       | 0       | 2       | 3       | 9       | 1       | 0       | 0       | 0        | 0     | 15     |
| SSW                   | 0                      | 0       | 0       | 8       | 32      | 14      | 1       | 0       | 0       | 0        | 0     | 55     |
| SW                    | 0                      | 0       | 0       | 4       | 44      | 12      | 1       | 0       | 0       | 0        | 0     | 61     |
| WSW                   | 0                      | 0       | 0       | 5       | 31      | 3       | 0       | 0       | 0       | 0        | 0     | 39     |
| W                     | 0                      | 0       | 0       | 1       | 16      | 2       | 2       | 0       | 0       | 0        | 0     | 21     |
| WNW                   | 0                      | 0       | 0       | 1       | 4       | 3       | 3       | 3       | 0       | 0        | 0     | 14     |
| NW                    | 0                      | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0        | 0     | 1      |
| NNW                   | 0                      | 0       | 0       | 0       | 3       | 1       | 0       | 0       | 0       | 0        | 0     | 4      |
| Tot                   | 0                      | 0       | 2       | 28      | 151     | 54      | 11      | 3       | 0       | 0        | 0     | 249    |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 249  
 Hours of Missing Data . . . . . 34  
 Hours in Period . . . . . 8760

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 13 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, January - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Dec for years 2007 - 2007  
 Stability Class B Moderately Unstable based on Lapse Rate  
 Elevations:: Winds 30ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 3       | 4       | 4       | 0       | 2       | 0       | 0        | 0      | 13    |
| NNE                   | 0                      | 0       | 0       | 1       | 1       | 6       | 0       | 0       | 0       | 0        | 0      | 8     |
| NE                    | 0                      | 0       | 0       | 1       | 5       | 3       | 0       | 0       | 0       | 0        | 0      | 9     |
| ENE                   | 0                      | 0       | 1       | 2       | 2       | 0       | 0       | 0       | 0       | 0        | 0      | 5     |
| E                     | 0                      | 0       | 0       | 2       | 6       | 0       | 0       | 0       | 0       | 0        | 0      | 8     |
| ESE                   | 0                      | 0       | 0       | 2       | 4       | 0       | 0       | 0       | 0       | 0        | 0      | 6     |
| SE                    | 0                      | 0       | 1       | 2       | 2       | 0       | 0       | 0       | 0       | 0        | 0      | 5     |
| SSE                   | 0                      | 0       | 1       | 0       | 3       | 0       | 0       | 0       | 1       | 0        | 0      | 5     |
| S                     | 0                      | 0       | 2       | 4       | 3       | 1       | 1       | 0       | 0       | 0        | 0      | 11    |
| SSW                   | 0                      | 0       | 2       | 4       | 14      | 10      | 6       | 0       | 0       | 0        | 0      | 36    |
| SW                    | 0                      | 0       | 2       | 10      | 15      | 4       | 1       | 0       | 0       | 0        | 0      | 32    |
| WSW                   | 0                      | 0       | 2       | 14      | 10      | 2       | 0       | 0       | 0       | 0        | 0      | 28    |
| W                     | 0                      | 0       | 2       | 5       | 16      | 4       | 6       | 3       | 1       | 0        | 0      | 37    |
| WNW                   | 0                      | 0       | 1       | 3       | 7       | 7       | 6       | 8       | 5       | 0        | 0      | 37    |
| NW                    | 0                      | 0       | 0       | 0       | 6       | 7       | 4       | 4       | 0       | 0        | 0      | 21    |
| NNW                   | 0                      | 0       | 0       | 0       | 3       | 6       | 1       | 2       | 0       | 0        | 0      | 12    |
| Tot                   | 0                      | 0       | 14      | 53      | 101     | 54      | 25      | 19      | 7       | 0        | 0      | 273   |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 273  
 Hours of Missing Data . . . . . 34  
 Hours in Period . . . . . 8760

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 13 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, January - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Dec for years 2007 - 2007  
 Stability Class C Slightly Unstable based on Lapse Rate  
 Elevations:: Winds 30ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 2       | 5       | 6       | 7       | 0       | 0       | 0        | 0      | 20    |
| NNE                   | 0                      | 0       | 1       | 1       | 3       | 2       | 1       | 0       | 0       | 0        | 0      | 8     |
| NE                    | 0                      | 0       | 0       | 1       | 1       | 2       | 1       | 0       | 0       | 0        | 0      | 5     |
| ENE                   | 0                      | 0       | 1       | 1       | 3       | 2       | 1       | 0       | 0       | 0        | 0      | 8     |
| E                     | 0                      | 0       | 3       | 2       | 2       | 4       | 0       | 0       | 0       | 0        | 0      | 11    |
| ESE                   | 0                      | 0       | 3       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 3     |
| SE                    | 0                      | 0       | 1       | 0       | 2       | 0       | 0       | 0       | 0       | 0        | 0      | 3     |
| SSE                   | 0                      | 0       | 4       | 2       | 4       | 0       | 0       | 0       | 0       | 0        | 0      | 10    |
| S                     | 0                      | 0       | 2       | 5       | 6       | 6       | 0       | 0       | 0       | 0        | 0      | 19    |
| SSW                   | 0                      | 0       | 1       | 10      | 21      | 10      | 3       | 0       | 0       | 0        | 0      | 45    |
| SW                    | 0                      | 0       | 1       | 7       | 14      | 2       | 2       | 0       | 0       | 0        | 0      | 26    |
| WSW                   | 0                      | 1       | 7       | 7       | 12      | 3       | 2       | 0       | 0       | 0        | 0      | 32    |
| W                     | 0                      | 1       | 2       | 5       | 11      | 4       | 5       | 4       | 0       | 1        | 0      | 33    |
| WNW                   | 0                      | 0       | 2       | 8       | 11      | 8       | 8       | 13      | 12      | 3        | 0      | 65    |
| NW                    | 0                      | 0       | 1       | 1       | 11      | 11      | 12      | 7       | 11      | 1        | 0      | 55    |
| NNW                   | 0                      | 0       | 0       | 0       | 8       | 10      | 17      | 2       | 0       | 0        | 0      | 37    |
| Tot                   | 0                      | 2       | 29      | 52      | 114     | 70      | 59      | 26      | 23      | 5        | 0      | 380   |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 380  
 Hours of Missing Data . . . . . 34  
 Hours in Period . . . . . 8760

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 13 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, January - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Dec for years 2007 - 2007  
 Stability Class D Neutral based on Lapse Rate  
 Elevations:: Winds 30ft Stability 266ft

| Wind Direction<br>Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|--------------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                          | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                        | 0                      | 12      | 9       | 19      | 37      | 46      | 27      | 4       | 0       | 0        | 0      | 154   |
| NNE                      | 0                      | 29      | 24      | 21      | 36      | 22      | 6       | 4       | 2       | 0        | 0      | 144   |
| NE                       | 0                      | 21      | 21      | 20      | 40      | 21      | 6       | 1       | 0       | 0        | 0      | 130   |
| ENE                      | 1                      | 20      | 31      | 36      | 100     | 36      | 3       | 0       | 0       | 0        | 0      | 227   |
| E                        | 0                      | 10      | 21      | 25      | 45      | 39      | 11      | 4       | 0       | 0        | 0      | 155   |
| ESE                      | 0                      | 13      | 22      | 11      | 22      | 14      | 8       | 6       | 9       | 0        | 0      | 105   |
| SE                       | 0                      | 7       | 12      | 7       | 7       | 1       | 0       | 0       | 0       | 0        | 0      | 34    |
| SSE                      | 0                      | 11      | 23      | 16      | 15      | 0       | 0       | 0       | 0       | 0        | 0      | 65    |
| S                        | 0                      | 9       | 27      | 30      | 41      | 23      | 4       | 0       | 0       | 0        | 0      | 134   |
| SSW                      | 0                      | 14      | 29      | 28      | 80      | 24      | 12      | 1       | 0       | 0        | 0      | 188   |
| SW                       | 1                      | 8       | 33      | 35      | 33      | 7       | 0       | 0       | 0       | 0        | 0      | 117   |
| WSW                      | 0                      | 18      | 29      | 28      | 20      | 10      | 4       | 0       | 0       | 0        | 0      | 109   |
| W                        | 0                      | 13      | 28      | 30      | 39      | 46      | 30      | 8       | 8       | 0        | 0      | 202   |
| WNW                      | 0                      | 18      | 33      | 27      | 111     | 81      | 92      | 68      | 74      | 6        | 0      | 510   |
| NW                       | 0                      | 15      | 32      | 30      | 74      | 117     | 114     | 131     | 192     | 61       | 20     | 786   |
| NNW                      | 0                      | 7       | 19      | 14      | 43      | 53      | 54      | 28      | 11      | 0        | 0      | 229   |
| Tot                      | 2                      | 225     | 393     | 377     | 743     | 540     | 371     | 255     | 296     | 67       | 20     | 3289  |

Hours of Calm . . . . . 11  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 3300  
 Hours of Missing Data . . . . . 34  
 Hours in Period . . . . . 8760

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 13 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, January - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Dec for years 2007 - 2007  
 Stability Class E Slightly Stable based on Lapse Rate  
 Elevations:: Winds 30ft Stability 266ft

| Wind Direction<br>Sector              | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|---------------------------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                                     | 0                      | 53      | 25      | 21      | 32      | 27      | 6       | 7       | 2       | 0        | 0      | 173   |
| NNE                                   | 1                      | 30      | 27      | 26      | 33      | 7       | 3       | 1       | 0       | 0        | 0      | 128   |
| NE                                    | 0                      | 40      | 25      | 15      | 30      | 5       | 1       | 1       | 0       | 0        | 0      | 117   |
| ENE                                   | 0                      | 27      | 40      | 35      | 41      | 12      | 4       | 1       | 0       | 0        | 0      | 160   |
| E                                     | 2                      | 15      | 23      | 16      | 31      | 25      | 14      | 4       | 0       | 0        | 0      | 130   |
| ESE                                   | 0                      | 16      | 20      | 13      | 9       | 4       | 7       | 2       | 0       | 0        | 0      | 71    |
| SE                                    | 0                      | 10      | 18      | 12      | 13      | 4       | 0       | 1       | 0       | 0        | 0      | 58    |
| SSE                                   | 0                      | 13      | 26      | 29      | 41      | 7       | 4       | 0       | 3       | 0        | 0      | 123   |
| S                                     | 0                      | 28      | 39      | 59      | 119     | 25      | 2       | 1       | 2       | 0        | 0      | 275   |
| SSW                                   | 0                      | 31      | 57      | 69      | 81      | 20      | 5       | 1       | 0       | 0        | 0      | 264   |
| SW                                    | 2                      | 56      | 59      | 31      | 22      | 5       | 2       | 1       | 1       | 0        | 0      | 179   |
| WSW                                   | 0                      | 77      | 64      | 20      | 23      | 4       | 0       | 2       | 0       | 0        | 0      | 190   |
| W                                     | 1                      | 85      | 65      | 55      | 70      | 30      | 11      | 1       | 4       | 0        | 0      | 322   |
| WNW                                   | 1                      | 65      | 75      | 58      | 98      | 49      | 23      | 12      | 5       | 3        | 0      | 389   |
| NW                                    | 0                      | 46      | 30      | 35      | 55      | 46      | 29      | 17      | 7       | 6        | 6      | 277   |
| NNW                                   | 2                      | 28      | 20      | 19      | 43      | 23      | 9       | 2       | 0       | 0        | 0      | 146   |
| Tot                                   | 9                      | 620     | 613     | 513     | 741     | 293     | 120     | 54      | 24      | 9        | 6      | 3002  |
| Hours of Calm . . . . .               |                        |         |         |         |         |         |         |         |         |          |        | 83    |
| Hours of Variable Direction . . . . . |                        |         |         |         |         |         |         |         |         |          |        | 0     |
| Hours of Valid Data . . . . .         |                        |         |         |         |         |         |         |         |         |          |        | 3085  |
| Hours of Missing Data . . . . .       |                        |         |         |         |         |         |         |         |         |          |        | 34    |
| Hours in Period . . . . .             |                        |         |         |         |         |         |         |         |         |          |        | 8760  |

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 13 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, January - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Dec for years 2007 - 2007  
 Stability Class F Moderately Stable based on Lapse Rate  
 Elevations:: Winds 30ft Stability 266ft

| Wind Direction<br>Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          | Total |        |
|--------------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|-------|--------|
|                          | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 |       | >10.00 |
| N                        | 0                      | 34      | 2       | 2       | 6       | 0       | 0       | 0       | 0       | 0        | 0     | 44     |
| NNE                      | 1                      | 27      | 3       | 4       | 3       | 0       | 0       | 0       | 0       | 0        | 0     | 38     |
| NE                       | 0                      | 28      | 7       | 2       | 1       | 0       | 0       | 0       | 0       | 0        | 0     | 38     |
| ENE                      | 0                      | 26      | 9       | 2       | 0       | 0       | 0       | 0       | 0       | 0        | 0     | 37     |
| E                        | 0                      | 13      | 8       | 5       | 4       | 0       | 0       | 0       | 0       | 0        | 0     | 30     |
| ESE                      | 0                      | 12      | 6       | 2       | 2       | 0       | 0       | 0       | 0       | 0        | 0     | 22     |
| SE                       | 0                      | 12      | 3       | 1       | 1       | 0       | 0       | 0       | 0       | 0        | 0     | 17     |
| SSE                      | 0                      | 10      | 5       | 0       | 2       | 0       | 0       | 0       | 0       | 0        | 0     | 17     |
| S                        | 0                      | 5       | 6       | 5       | 3       | 1       | 0       | 0       | 0       | 0        | 0     | 20     |
| SSW                      | 1                      | 12      | 13      | 12      | 2       | 0       | 0       | 0       | 0       | 0        | 0     | 40     |
| SW                       | 0                      | 33      | 22      | 5       | 0       | 0       | 0       | 0       | 0       | 0        | 0     | 60     |
| WSW                      | 0                      | 40      | 14      | 0       | 1       | 1       | 0       | 0       | 0       | 0        | 0     | 56     |
| W                        | 0                      | 54      | 20      | 6       | 0       | 0       | 0       | 0       | 0       | 0        | 0     | 80     |
| WNW                      | 0                      | 83      | 53      | 17      | 5       | 0       | 0       | 0       | 0       | 0        | 0     | 158    |
| NW                       | 2                      | 78      | 35      | 15      | 2       | 1       | 0       | 0       | 0       | 0        | 0     | 133    |
| NNW                      | 2                      | 51      | 9       | 0       | 2       | 0       | 0       | 0       | 0       | 0        | 0     | 64     |
| Tot                      | 6                      | 518     | 215     | 78      | 34      | 3       | 0       | 0       | 0       | 0        | 0     | 854    |

Hours of Calm . . . . . 70  
 Hours of Variable Direction . . . . . 1  
 Hours of Valid Data . . . . . 925  
 Hours of Missing Data . . . . . 34  
 Hours in Period . . . . . 8760

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 13 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, January - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Dec for years 2007 - 2007  
 Stability Class G Extremely Stable based on Lapse Rate  
 Elevations:: Winds 30ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 1                      | 27      | 3       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 32    |
| NNE                   | 0                      | 16      | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 17    |
| NE                    | 0                      | 7       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 7     |
| ENE                   | 0                      | 10      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 10    |
| E                     | 0                      | 3       | 3       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 6     |
| ESE                   | 0                      | 2       | 2       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 4     |
| SE                    | 0                      | 3       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 3     |
| SSE                   | 0                      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 0     |
| S                     | 0                      | 2       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 2     |
| SSW                   | 0                      | 2       | 1       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 4     |
| SW                    | 0                      | 8       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 9     |
| WSW                   | 1                      | 9       | 4       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 14    |
| W                     | 1                      | 46      | 15      | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 63    |
| WNW                   | 0                      | 73      | 21      | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 94    |
| NW                    | 3                      | 89      | 13      | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 105   |
| NNW                   | 2                      | 37      | 4       | 1       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 44    |
| Tot                   | 8                      | 334     | 68      | 4       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 414   |

Hours of Calm . . . . . 100  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 514  
 Hours of Missing Data . . . . . 34  
 Hours in Period . . . . . 8760

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 14 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, January - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Dec for years 2007 - 2007  
 All Stabilities  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 27      | 22      | 27      | 85      | 65      | 84      | 70      | 37      | 3        | 0      | 420   |
| NNE                   | 0                      | 25      | 39      | 26      | 88      | 73      | 57      | 28      | 14      | 2        | 0      | 352   |
| NE                    | 0                      | 32      | 44      | 38      | 81      | 66      | 41      | 10      | 6       | 0        | 0      | 318   |
| ENE                   | 0                      | 23      | 53      | 44      | 121     | 108     | 42      | 12      | 3       | 0        | 0      | 406   |
| E                     | 0                      | 28      | 45      | 38      | 59      | 72      | 44      | 29      | 18      | 2        | 0      | 335   |
| ESE                   | 0                      | 16      | 41      | 29      | 34      | 32      | 29      | 23      | 25      | 9        | 0      | 238   |
| SE                    | 0                      | 20      | 27      | 33      | 33      | 24      | 15      | 7       | 3       | 0        | 0      | 162   |
| SSE                   | 0                      | 17      | 30      | 30      | 52      | 45      | 44      | 12      | 2       | 2        | 3      | 237   |
| S                     | 1                      | 11      | 28      | 55      | 106     | 131     | 132     | 78      | 25      | 1        | 2      | 570   |
| SSW                   | 0                      | 20      | 35      | 37      | 170     | 147     | 165     | 77      | 52      | 12       | 0      | 715   |
| SW                    | 0                      | 19      | 43      | 63      | 151     | 156     | 83      | 42      | 37      | 6        | 3      | 603   |
| WSW                   | 1                      | 20      | 49      | 57      | 137     | 92      | 60      | 38      | 22      | 8        | 1      | 485   |
| W                     | 0                      | 21      | 60      | 76      | 126     | 115     | 107     | 114     | 98      | 35       | 19     | 771   |
| WNW                   | 0                      | 26      | 50      | 92      | 223     | 221     | 253     | 166     | 259     | 168      | 100    | 1558  |
| NW                    | 0                      | 38      | 48      | 43      | 174     | 122     | 128     | 93      | 163     | 126      | 83     | 1018  |
| NNW                   | 0                      | 26      | 45      | 41      | 74      | 81      | 72      | 59      | 70      | 9        | 3      | 480   |
| Tot                   | 2                      | 369     | 659     | 729     | 1714    | 1550    | 1356    | 858     | 834     | 383      | 214    | 8668  |

Hours of Calm . . . . . 32  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 8700  
 Hours of Missing Data . . . . . 60  
 Hours in Period . . . . . 8760

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 14 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, January - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Dec for years 2007 - 2007  
 Stability Class A Extremely Unstable based on Lapse Rate  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          | Total |        |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|-------|--------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 |       | >10.00 |
| N                     | 0                      | 0       | 0       | 1       | 5       | 5       | 9       | 8       | 5       | 0        | 0     | 33     |
| NNE                   | 0                      | 0       | 1       | 1       | 6       | 3       | 5       | 2       | 0       | 0        | 0     | 18     |
| NE                    | 0                      | 0       | 0       | 0       | 1       | 2       | 1       | 1       | 0       | 0        | 0     | 5      |
| ENE                   | 0                      | 0       | 0       | 2       | 1       | 1       | 1       | 0       | 0       | 0        | 0     | 5      |
| E                     | 0                      | 0       | 1       | 0       | 0       | 4       | 0       | 0       | 0       | 0        | 0     | 5      |
| ESE                   | 0                      | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 0       | 0        | 0     | 1      |
| SE                    | 0                      | 0       | 0       | 2       | 2       | 0       | 0       | 0       | 0       | 0        | 0     | 4      |
| SSE                   | 0                      | 0       | 1       | 0       | 1       | 7       | 3       | 1       | 0       | 0        | 0     | 13     |
| S                     | 0                      | 0       | 2       | 5       | 4       | 5       | 12      | 7       | 3       | 0        | 0     | 38     |
| SSW                   | 0                      | 0       | 1       | 1       | 19      | 24      | 39      | 19      | 10      | 0        | 0     | 113    |
| SW                    | 0                      | 1       | 2       | 1       | 22      | 41      | 26      | 12      | 13      | 3        | 0     | 121    |
| WSW                   | 0                      | 0       | 1       | 5       | 19      | 22      | 20      | 11      | 5       | 2        | 0     | 85     |
| W                     | 0                      | 0       | 1       | 3       | 15      | 21      | 14      | 22      | 15      | 13       | 0     | 104    |
| WNW                   | 0                      | 0       | 2       | 5       | 4       | 5       | 5       | 4       | 20      | 20       | 4     | 69     |
| NW                    | 0                      | 0       | 1       | 0       | 7       | 6       | 11      | 9       | 7       | 1        | 2     | 44     |
| NNW                   | 0                      | 0       | 0       | 0       | 0       | 6       | 4       | 2       | 1       | 0        | 0     | 13     |
| Tot                   | 0                      | 1       | 13      | 26      | 106     | 153     | 150     | 98      | 79      | 39       | 6     | 671    |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 671  
 Hours of Missing Data . . . . . 60  
 Hours in Period . . . . . 8760

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 14 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, January - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Dec for years 2007 - 2007  
 Stability Class B Moderately Unstable based on Lapse Rate  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 1       | 1       | 1       | 4       | 7       | 7       | 0        | 0      | 21    |
| NNE                   | 0                      | 0       | 0       | 0       | 4       | 2       | 1       | 3       | 1       | 0        | 0      | 11    |
| NE                    | 0                      | 0       | 0       | 0       | 2       | 2       | 1       | 0       | 1       | 0        | 0      | 6     |
| ENE                   | 0                      | 0       | 0       | 1       | 2       | 1       | 2       | 1       | 0       | 0        | 0      | 7     |
| E                     | 0                      | 1       | 0       | 2       | 1       | 4       | 1       | 0       | 0       | 0        | 0      | 9     |
| ESE                   | 0                      | 0       | 0       | 1       | 0       | 3       | 0       | 0       | 0       | 0        | 0      | 4     |
| SE                    | 0                      | 0       | 0       | 0       | 1       | 2       | 1       | 0       | 0       | 0        | 0      | 4     |
| SSE                   | 0                      | 1       | 0       | 0       | 2       | 3       | 2       | 0       | 0       | 0        | 0      | 8     |
| S                     | 0                      | 0       | 1       | 1       | 3       | 5       | 2       | 1       | 0       | 0        | 0      | 13    |
| SSW                   | 0                      | 1       | 1       | 0       | 6       | 3       | 9       | 5       | 2       | 2        | 0      | 29    |
| SW                    | 0                      | 0       | 2       | 2       | 10      | 14      | 5       | 5       | 2       | 1        | 0      | 41    |
| WSW                   | 0                      | 0       | 3       | 5       | 9       | 5       | 3       | 2       | 2       | 0        | 0      | 29    |
| W                     | 0                      | 0       | 2       | 3       | 4       | 5       | 8       | 4       | 10      | 3        | 2      | 41    |
| WNW                   | 0                      | 0       | 2       | 1       | 5       | 7       | 5       | 6       | 12      | 16       | 2      | 56    |
| NW                    | 0                      | 0       | 0       | 0       | 3       | 4       | 7       | 7       | 16      | 12       | 2      | 51    |
| NNW                   | 0                      | 0       | 1       | 1       | 4       | 5       | 1       | 8       | 6       | 1        | 0      | 27    |
| Tot                   | 0                      | 3       | 12      | 18      | 57      | 66      | 52      | 49      | 59      | 35       | 6      | 357   |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 357  
 Hours of Missing Data . . . . . 60  
 Hours in Period . . . . . 8760

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 14 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, January - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Dec for years 2007 - 2007  
 Stability Class C Slightly Unstable based on Lapse Rate  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction<br>Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|--------------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                          | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                        | 0                      | 0       | 0       | 0       | 5       | 4       | 13      | 4       | 3       | 0        | 0      | 29    |
| NNE                      | 0                      | 0       | 0       | 0       | 5       | 4       | 5       | 0       | 1       | 0        | 0      | 15    |
| NE                       | 0                      | 0       | 1       | 0       | 5       | 5       | 4       | 2       | 1       | 0        | 0      | 18    |
| ENE                      | 0                      | 0       | 1       | 1       | 8       | 5       | 2       | 0       | 0       | 0        | 0      | 17    |
| E                        | 0                      | 0       | 3       | 3       | 8       | 3       | 3       | 0       | 0       | 0        | 0      | 20    |
| ESE                      | 0                      | 0       | 1       | 0       | 2       | 1       | 0       | 0       | 0       | 2        | 0      | 6     |
| SE                       | 0                      | 0       | 1       | 1       | 2       | 0       | 0       | 0       | 0       | 0        | 0      | 4     |
| SSE                      | 0                      | 1       | 1       | 1       | 3       | 1       | 1       | 0       | 0       | 0        | 0      | 8     |
| S                        | 0                      | 0       | 0       | 7       | 6       | 3       | 4       | 1       | 1       | 0        | 0      | 22    |
| SSW                      | 0                      | 0       | 3       | 5       | 8       | 5       | 9       | 5       | 3       | 2        | 0      | 40    |
| SW                       | 0                      | 0       | 1       | 2       | 6       | 6       | 3       | 3       | 0       | 0        | 0      | 21    |
| WSW                      | 0                      | 0       | 4       | 4       | 4       | 3       | 3       | 2       | 3       | 1        | 0      | 24    |
| W                        | 0                      | 0       | 4       | 7       | 7       | 5       | 7       | 1       | 5       | 4        | 3      | 43    |
| WNW                      | 0                      | 0       | 0       | 5       | 9       | 11      | 11      | 8       | 16      | 13       | 11     | 84    |
| NW                       | 0                      | 1       | 0       | 2       | 2       | 7       | 10      | 9       | 31      | 22       | 10     | 94    |
| NNW                      | 0                      | 2       | 1       | 1       | 2       | 4       | 8       | 11      | 12      | 1        | 0      | 42    |
| Tot                      | 0                      | 4       | 21      | 39      | 82      | 67      | 83      | 46      | 76      | 45       | 24     | 487   |

Hours of Calm . . . . . 1  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 488  
 Hours of Missing Data . . . . . 60  
 Hours in Period . . . . . 8760

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 14 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, January - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Dec for years 2007 - 2007  
 Stability Class D Neutral based on Lapse Rate  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          | Total |        |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|-------|--------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 |       | >10.00 |
| N                     | 0                      | 3       | 3       | 6       | 25      | 20      | 32      | 23      | 10      | 1        | 0     | 123    |
| NNE                   | 0                      | 10      | 16      | 11      | 27      | 29      | 16      | 8       | 3       | 2        | 0     | 122    |
| NE                    | 0                      | 10      | 19      | 23      | 39      | 27      | 20      | 6       | 2       | 0        | 0     | 146    |
| ENE                   | 0                      | 7       | 14      | 15      | 56      | 59      | 21      | 4       | 0       | 0        | 0     | 176    |
| E                     | 0                      | 10      | 19      | 18      | 35      | 38      | 19      | 10      | 9       | 0        | 0     | 158    |
| ESE                   | 0                      | 3       | 12      | 8       | 11      | 16      | 19      | 10      | 17      | 7        | 0     | 103    |
| SE                    | 0                      | 5       | 10      | 11      | 2       | 6       | 7       | 2       | 1       | 0        | 0     | 44     |
| SSE                   | 0                      | 2       | 10      | 16      | 16      | 5       | 8       | 2       | 0       | 0        | 0     | 59     |
| S                     | 0                      | 2       | 11      | 19      | 34      | 27      | 22      | 18      | 5       | 0        | 0     | 138    |
| SSW                   | 0                      | 7       | 15      | 5       | 30      | 33      | 28      | 15      | 11      | 4        | 0     | 148    |
| SW                    | 0                      | 7       | 11      | 12      | 26      | 14      | 14      | 6       | 11      | 0        | 0     | 101    |
| WSW                   | 0                      | 5       | 10      | 8       | 29      | 15      | 6       | 4       | 6       | 3        | 0     | 86     |
| W                     | 0                      | 3       | 15      | 11      | 22      | 20      | 28      | 34      | 47      | 13       | 11    | 204    |
| WNW                   | 0                      | 4       | 9       | 20      | 43      | 47      | 82      | 83      | 157     | 108      | 69    | 622    |
| NW                    | 0                      | 10      | 9       | 6       | 28      | 24      | 48      | 56      | 90      | 88       | 67    | 426    |
| NNW                   | 0                      | 13      | 8       | 10      | 13      | 25      | 27      | 25      | 41      | 6        | 3     | 171    |
| Tot                   | 0                      | 101     | 191     | 199     | 436     | 405     | 397     | 306     | 410     | 232      | 150   | 2827   |

Hours of Calm . . . . . 4  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 2831  
 Hours of Missing Data . . . . . 60  
 Hours in Period . . . . . 8760

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 14 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, January - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Dec for years 2007 - 2007  
 Stability Class E Slightly Stable based on Lapse Rate  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          | Total |        |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|-------|--------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 |       | >10.00 |
| N                     | 0                      | 12      | 10      | 6       | 24      | 22      | 22      | 22      | 11      | 2        | 0     | 131    |
| NNE                   | 0                      | 8       | 14      | 10      | 27      | 24      | 23      | 13      | 9       | 0        | 0     | 128    |
| NE                    | 0                      | 10      | 16      | 10      | 22      | 29      | 14      | 1       | 2       | 0        | 0     | 104    |
| ENE                   | 0                      | 9       | 16      | 20      | 41      | 41      | 16      | 7       | 3       | 0        | 0     | 153    |
| E                     | 0                      | 4       | 11      | 12      | 10      | 16      | 18      | 18      | 9       | 2        | 0     | 100    |
| ESE                   | 0                      | 2       | 14      | 11      | 14      | 8       | 6       | 10      | 8       | 0        | 0     | 73     |
| SE                    | 0                      | 6       | 10      | 13      | 22      | 10      | 7       | 5       | 2       | 0        | 0     | 75     |
| SSE                   | 0                      | 8       | 3       | 6       | 18      | 20      | 27      | 8       | 2       | 2        | 3     | 97     |
| S                     | 0                      | 4       | 5       | 14      | 38      | 83      | 82      | 46      | 14      | 1        | 2     | 289    |
| SSW                   | 0                      | 4       | 2       | 10      | 63      | 64      | 59      | 26      | 25      | 4        | 0     | 257    |
| SW                    | 0                      | 4       | 9       | 28      | 51      | 51      | 20      | 13      | 9       | 2        | 3     | 190    |
| WSW                   | 0                      | 7       | 10      | 16      | 28      | 25      | 22      | 16      | 5       | 2        | 1     | 132    |
| W                     | 0                      | 10      | 16      | 14      | 29      | 34      | 34      | 47      | 21      | 2        | 3     | 210    |
| WNW                   | 0                      | 11      | 18      | 23      | 57      | 64      | 82      | 57      | 52      | 11       | 14    | 389    |
| NW                    | 0                      | 14      | 16      | 8       | 31      | 25      | 36      | 11      | 16      | 3        | 2     | 162    |
| NNW                   | 0                      | 6       | 17      | 11      | 25      | 21      | 22      | 13      | 10      | 1        | 0     | 126    |
| Tot                   | 0                      | 119     | 187     | 212     | 500     | 537     | 490     | 313     | 198     | 32       | 28    | 2616   |

Hours of Calm . . . . . 9  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 2625  
 Hours of Missing Data . . . . . 60  
 Hours in Period . . . . . 8760

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 14 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, January - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Dec for years 2007 - 2007  
 Stability Class F Moderately Stable based on Lapse Rate  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 5       | 6       | 4       | 11      | 6       | 3       | 6       | 1       | 0        | 0      | 42    |
| NNE                   | 0                      | 0       | 2       | 2       | 9       | 4       | 3       | 2       | 0       | 0        | 0      | 22    |
| NE                    | 0                      | 5       | 5       | 4       | 8       | 0       | 1       | 0       | 0       | 0        | 0      | 23    |
| ENE                   | 0                      | 4       | 18      | 5       | 8       | 1       | 0       | 0       | 0       | 0        | 0      | 36    |
| E                     | 0                      | 5       | 8       | 3       | 3       | 6       | 3       | 1       | 0       | 0        | 0      | 29    |
| ESE                   | 0                      | 6       | 8       | 5       | 6       | 1       | 4       | 3       | 0       | 0        | 0      | 33    |
| SE                    | 0                      | 4       | 4       | 4       | 4       | 6       | 0       | 0       | 0       | 0        | 0      | 22    |
| SSE                   | 0                      | 3       | 9       | 4       | 12      | 9       | 3       | 1       | 0       | 0        | 0      | 41    |
| S                     | 0                      | 2       | 2       | 6       | 14      | 7       | 10      | 5       | 2       | 0        | 0      | 48    |
| SSW                   | 0                      | 6       | 5       | 7       | 33      | 15      | 18      | 4       | 1       | 0        | 0      | 89    |
| SW                    | 0                      | 3       | 10      | 14      | 20      | 25      | 14      | 1       | 2       | 0        | 0      | 89    |
| WSW                   | 1                      | 0       | 7       | 8       | 26      | 19      | 5       | 3       | 1       | 0        | 0      | 70    |
| W                     | 0                      | 3       | 8       | 12      | 35      | 22      | 11      | 6       | 0       | 0        | 0      | 97    |
| WNW                   | 0                      | 6       | 5       | 11      | 60      | 53      | 50      | 5       | 1       | 0        | 0      | 191   |
| NW                    | 0                      | 4       | 10      | 10      | 44      | 31      | 11      | 0       | 2       | 0        | 0      | 112   |
| NNW                   | 0                      | 3       | 6       | 6       | 9       | 9       | 7       | 0       | 0       | 0        | 0      | 40    |
| Tot                   | 1                      | 59      | 113     | 105     | 302     | 214     | 143     | 37      | 10      | 0        | 0      | 984   |

Hours of Calm . . . . . 7  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 991  
 Hours of Missing Data . . . . . 60  
 Hours in Period . . . . . 8760

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 14 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, January - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Dec for years 2007 - 2007  
 Stability Class G Extremely Stable based on Lapse Rate  
 Elevations:: Winds 175ft Stability 171ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 7       | 3       | 9       | 14      | 7       | 1       | 0       | 0       | 0        | 0      | 41    |
| NNE                   | 0                      | 7       | 6       | 2       | 10      | 7       | 4       | 0       | 0       | 0        | 0      | 36    |
| NE                    | 0                      | 7       | 3       | 1       | 4       | 1       | 0       | 0       | 0       | 0        | 0      | 16    |
| ENE                   | 0                      | 3       | 4       | 0       | 5       | 0       | 0       | 0       | 0       | 0        | 0      | 12    |
| E                     | 0                      | 8       | 3       | 0       | 2       | 1       | 0       | 0       | 0       | 0        | 0      | 14    |
| ESE                   | 0                      | 5       | 6       | 4       | 1       | 2       | 0       | 0       | 0       | 0        | 0      | 18    |
| SE                    | 0                      | 5       | 2       | 2       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 9     |
| SSE                   | 0                      | 2       | 6       | 3       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 11    |
| S                     | 1                      | 3       | 7       | 3       | 7       | 1       | 0       | 0       | 0       | 0        | 0      | 22    |
| SSW                   | 0                      | 2       | 8       | 9       | 11      | 3       | 3       | 0       | 0       | 0        | 0      | 39    |
| SW                    | 0                      | 4       | 8       | 4       | 16      | 5       | 1       | 2       | 0       | 0        | 0      | 40    |
| WSW                   | 0                      | 8       | 14      | 11      | 22      | 3       | 1       | 0       | 0       | 0        | 0      | 59    |
| W                     | 0                      | 5       | 14      | 26      | 14      | 8       | 5       | 0       | 0       | 0        | 0      | 72    |
| WNW                   | 0                      | 5       | 14      | 27      | 45      | 34      | 18      | 3       | 1       | 0        | 0      | 147   |
| NW                    | 0                      | 9       | 12      | 17      | 59      | 25      | 5       | 1       | 1       | 0        | 0      | 129   |
| NNW                   | 0                      | 2       | 12      | 12      | 21      | 11      | 3       | 0       | 0       | 0        | 0      | 61    |
| Tot                   | 1                      | 82      | 122     | 130     | 231     | 108     | 41      | 9       | 2       | 0        | 0      | 726   |

|                                       |      |
|---------------------------------------|------|
| Hours of Calm . . . . .               | 11   |
| Hours of Variable Direction . . . . . | 0    |
| Hours of Valid Data . . . . .         | 737  |
| Hours of Missing Data . . . . .       | 60   |
| Hours in Period . . . . .             | 8760 |

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 15 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, January - December, 2007

| Joint Frequency Distribution                    |                        |         |         |         |         |         |         |         |         |          |        |       |
|---|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
| Site:: Limerick Generating Station              |                        |         |         |         |         |         |         |         |         |          |        |       |
| Period:: Months Jan - Dec for years 2007 - 2007 |                        |         |         |         |         |         |         |         |         |          |        |       |
| All Stabilities                                 |                        |         |         |         |         |         |         |         |         |          |        |       |
| Elevations:: Winds 270ft      Stability 266ft   |                        |         |         |         |         |         |         |         |         |          |        |       |
| Wind Direction Sector                           | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|   | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N   | 0                      | 19      | 21      | 34      | 83      | 82      | 69      | 63      | 72      | 15       | 1      | 459   |
| NNE   | 2                      | 22      | 24      | 21      | 65      | 67      | 70      | 35      | 24      | 8        | 0      | 338   |
| NE  | 0                      | 20      | 31      | 48      | 81      | 81      | 52      | 30      | 10      | 1        | 0      | 354   |
| ENE   | 0                      | 22      | 35      | 29      | 81      | 104     | 64      | 35      | 17      | 0        | 0      | 387   |
| E   | 0                      | 16      | 31      | 30      | 38      | 39      | 41      | 31      | 31      | 16       | 1      | 274   |
| ESE   | 0                      | 12      | 25      | 26      | 30      | 22      | 12      | 19      | 22      | 16       | 1      | 185   |
| SE  | 2                      | 14      | 20      | 36      | 46      | 15      | 20      | 11      | 4       | 2        | 0      | 170   |
| SSE   | 1                      | 9       | 19      | 34      | 45      | 43      | 52      | 41      | 25      | 6        | 4      | 279   |
| S   | 0                      | 12      | 29      | 31      | 94      | 108     | 162     | 118     | 87      | 4        | 3      | 648   |
| SSW   | 0                      | 10      | 28      | 36      | 149     | 156     | 145     | 112     | 56      | 37       | 3      | 732   |
| SW  | 1                      | 20      | 31      | 45      | 153     | 140     | 100     | 53      | 43      | 8        | 3      | 597   |
| WSW   | 0                      | 10      | 43      | 42      | 113     | 106     | 57      | 53      | 47      | 19       | 6      | 496   |
| W   | 0                      | 18      | 31      | 54      | 123     | 136     | 132     | 141     | 199     | 96       | 64     | 994   |
| WNW   | 1                      | 10      | 26      | 50      | 128     | 156     | 200     | 189     | 265     | 190      | 167    | 1382  |
| NW  | 0                      | 19      | 25      | 29      | 82      | 102     | 86      | 91      | 148     | 101      | 87     | 770   |
| NNW   | 0                      | 23      | 32      | 28      | 77      | 74      | 72      | 92      | 73      | 9        | 3      | 483   |
| Tot   | 7                      | 256     | 451     | 573     | 1388    | 1431    | 1334    | 1114    | 1123    | 528      | 343    | 8548  |
| Hours of Calm . . . . .                         |                        |         |         |         |         |         |         |         |         |          |        | 28    |
| Hours of Variable Direction . . . . .           |                        |         |         |         |         |         |         |         |         |          |        | 0     |
| Hours of Valid Data . . . . .                   |                        |         |         |         |         |         |         |         |         |          |        | 8576  |
| Hours of Missing Data . . . . .                 |                        |         |         |         |         |         |         |         |         |          |        | 184   |
| Hours in Period . . . . .                       |                        |         |         |         |         |         |         |         |         |          |        | 8760  |

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 15 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, January - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Dec for years 2007 - 2007  
 Stability Class A Extremely Unstable based on Lapse Rate  
 Elevations:: Winds 270ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 0       | 1       | 2       | 2       | 0       | 0       | 0        | 0      | 5     |
| NNE                   | 0                      | 0       | 0       | 0       | 0       | 1       | 1       | 5       | 1       | 0        | 0      | 8     |
| NE                    | 0                      | 0       | 0       | 1       | 1       | 2       | 0       | 0       | 0       | 0        | 0      | 4     |
| ENE                   | 0                      | 0       | 0       | 2       | 0       | 2       | 0       | 0       | 0       | 0        | 0      | 4     |
| E                     | 0                      | 0       | 1       | 0       | 0       | 1       | 1       | 0       | 0       | 0        | 0      | 3     |
| ESE                   | 0                      | 0       | 0       | 1       | 0       | 1       | 0       | 0       | 0       | 0        | 0      | 2     |
| SE                    | 0                      | 0       | 0       | 1       | 0       | 2       | 0       | 0       | 0       | 0        | 0      | 3     |
| SSE                   | 0                      | 0       | 0       | 0       | 1       | 5       | 2       | 0       | 0       | 0        | 0      | 8     |
| S                     | 0                      | 0       | 0       | 3       | 2       | 5       | 15      | 7       | 5       | 0        | 0      | 37    |
| SSW                   | 0                      | 0       | 0       | 0       | 10      | 18      | 21      | 5       | 6       | 0        | 0      | 60    |
| SW                    | 0                      | 0       | 0       | 0       | 7       | 14      | 19      | 12      | 7       | 2        | 0      | 61    |
| WSW                   | 0                      | 0       | 0       | 0       | 5       | 9       | 3       | 7       | 0       | 0        | 0      | 24    |
| W                     | 0                      | 0       | 0       | 1       | 1       | 6       | 1       | 6       | 6       | 4        | 0      | 25    |
| WNW                   | 0                      | 0       | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 0        | 0      | 1     |
| NW                    | 0                      | 0       | 0       | 0       | 1       | 2       | 0       | 0       | 0       | 0        | 0      | 3     |
| NNW                   | 0                      | 0       | 0       | 0       | 0       | 0       | 1       | 0       | 0       | 0        | 0      | 1     |
| Tot                   | 0                      | 0       | 1       | 9       | 29      | 70      | 67      | 42      | 25      | 6        | 0      | 249   |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 249  
 Hours of Missing Data . . . . . 184  
 Hours in Period . . . . . 8760

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 15 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, January - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Dec for years 2007 - 2007  
 Stability Class B Moderately Unstable based on Lapse Rate  
 Elevations:: Winds 270ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          | Total |        |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|-------|--------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 |       | >10.00 |
| N                     | 0                      | 0       | 0       | 1       | 4       | 2       | 6       | 1       | 2       | 0        | 0     | 16     |
| NNE                   | 0                      | 0       | 0       | 0       | 4       | 2       | 3       | 2       | 0       | 0        | 0     | 11     |
| NE                    | 0                      | 0       | 0       | 0       | 3       | 0       | 1       | 0       | 0       | 0        | 0     | 4      |
| ENE                   | 0                      | 0       | 0       | 1       | 4       | 1       | 0       | 0       | 0       | 0        | 0     | 6      |
| E                     | 0                      | 0       | 0       | 1       | 0       | 3       | 1       | 0       | 0       | 0        | 0     | 5      |
| ESE                   | 0                      | 0       | 0       | 0       | 0       | 2       | 0       | 0       | 0       | 0        | 0     | 2      |
| SE                    | 0                      | 0       | 0       | 1       | 4       | 0       | 3       | 0       | 0       | 0        | 0     | 8      |
| SSE                   | 0                      | 0       | 2       | 0       | 1       | 2       | 1       | 0       | 0       | 0        | 0     | 6      |
| S                     | 0                      | 0       | 2       | 1       | 3       | 3       | 8       | 1       | 5       | 0        | 0     | 23     |
| SSW                   | 0                      | 0       | 2       | 0       | 7       | 3       | 8       | 6       | 6       | 5        | 0     | 37     |
| SW                    | 0                      | 0       | 1       | 0       | 17      | 15      | 5       | 0       | 3       | 0        | 0     | 41     |
| WSW                   | 0                      | 0       | 1       | 3       | 5       | 5       | 4       | 2       | 3       | 2        | 0     | 25     |
| W                     | 0                      | 0       | 0       | 1       | 4       | 5       | 5       | 5       | 10      | 11       | 4     | 45     |
| WNW                   | 0                      | 0       | 0       | 1       | 2       | 1       | 1       | 2       | 9       | 5        | 1     | 22     |
| NW                    | 0                      | 0       | 0       | 0       | 0       | 6       | 7       | 0       | 1       | 0        | 0     | 14     |
| NNW                   | 0                      | 0       | 0       | 1       | 1       | 3       | 0       | 0       | 2       | 0        | 0     | 7      |
| Tot                   | 0                      | 0       | 8       | 11      | 59      | 53      | 53      | 19      | 41      | 23       | 5     | 272    |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 272  
 Hours of Missing Data . . . . . 184  
 Hours in Period . . . . . 8760

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 15 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, January - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Dec for years 2007 - 2007  
 Stability Class C Slightly Unstable based on Lapse Rate  
 Elevations:: Winds 270ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 0       | 0       | 0       | 4       | 4       | 5       | 2       | 5       | 0        | 0      | 20    |
| NNE                   | 0                      | 0       | 0       | 0       | 4       | 0       | 2       | 1       | 0       | 0        | 0      | 7     |
| NE                    | 0                      | 0       | 0       | 0       | 0       | 0       | 2       | 0       | 1       | 0        | 0      | 3     |
| ENE                   | 0                      | 0       | 1       | 0       | 3       | 2       | 3       | 1       | 0       | 0        | 0      | 10    |
| E                     | 0                      | 0       | 2       | 2       | 1       | 0       | 2       | 0       | 0       | 0        | 0      | 7     |
| ESE                   | 0                      | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| SE                    | 0                      | 0       | 1       | 1       | 1       | 2       | 0       | 1       | 0       | 0        | 0      | 6     |
| SSE                   | 0                      | 0       | 1       | 2       | 1       | 2       | 4       | 0       | 1       | 0        | 0      | 11    |
| S                     | 0                      | 0       | 3       | 1       | 7       | 3       | 10      | 8       | 1       | 0        | 0      | 33    |
| SSW                   | 0                      | 0       | 0       | 0       | 9       | 7       | 5       | 9       | 2       | 5        | 0      | 37    |
| SW                    | 0                      | 0       | 1       | 2       | 8       | 11      | 5       | 5       | 2       | 0        | 0      | 34    |
| WSW                   | 0                      | 0       | 2       | 4       | 4       | 4       | 2       | 5       | 4       | 1        | 1      | 27    |
| W                     | 0                      | 0       | 1       | 5       | 6       | 9       | 7       | 7       | 11      | 7        | 1      | 54    |
| WNW                   | 0                      | 1       | 1       | 1       | 5       | 3       | 2       | 9       | 13      | 21       | 11     | 67    |
| NW                    | 0                      | 0       | 0       | 0       | 3       | 5       | 6       | 8       | 4       | 0        | 4      | 30    |
| NNW                   | 0                      | 0       | 0       | 1       | 3       | 0       | 7       | 10      | 9       | 0        | 0      | 30    |
| Tot                   | 0                      | 1       | 14      | 19      | 59      | 52      | 62      | 66      | 53      | 34       | 17     | 377   |

Hours of Calm . . . . . 0  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 377  
 Hours of Missing Data . . . . . 184  
 Hours in Period . . . . . 8760

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 15 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, January - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Dec for years 2007 - 2007  
 Stability Class D Neutral based on Lapse Rate  
 Elevations:: Winds 270ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 3       | 7       | 8       | 29      | 22      | 25      | 28      | 23      | 2        | 0      | 147   |
| NNE                   | 0                      | 13      | 9       | 5       | 24      | 24      | 25      | 7       | 13      | 6        | 0      | 126   |
| NE                    | 0                      | 5       | 16      | 30      | 42      | 45      | 26      | 16      | 7       | 0        | 0      | 187   |
| ENE                   | 0                      | 8       | 10      | 13      | 40      | 61      | 38      | 17      | 3       | 0        | 0      | 190   |
| E                     | 0                      | 4       | 16      | 14      | 20      | 22      | 24      | 15      | 12      | 7        | 0      | 134   |
| ESE                   | 0                      | 2       | 8       | 8       | 9       | 11      | 8       | 8       | 7       | 12       | 1      | 74    |
| SE                    | 0                      | 4       | 5       | 8       | 12      | 2       | 3       | 6       | 1       | 0        | 0      | 41    |
| SSE                   | 0                      | 1       | 5       | 16      | 15      | 8       | 12      | 13      | 11      | 0        | 0      | 81    |
| S                     | 0                      | 3       | 13      | 14      | 37      | 31      | 41      | 14      | 16      | 0        | 0      | 169   |
| SSW                   | 0                      | 4       | 9       | 16      | 31      | 31      | 32      | 39      | 13      | 11       | 1      | 187   |
| SW                    | 1                      | 7       | 15      | 13      | 31      | 20      | 22      | 8       | 13      | 4        | 0      | 134   |
| WSW                   | 0                      | 1       | 10      | 9       | 17      | 23      | 11      | 8       | 20      | 11       | 3      | 113   |
| W                     | 0                      | 3       | 7       | 12      | 33      | 38      | 50      | 38      | 81      | 51       | 53     | 366   |
| WNW                   | 0                      | 1       | 2       | 13      | 31      | 37      | 65      | 68      | 155     | 131      | 127    | 630   |
| NW                    | 0                      | 5       | 2       | 4       | 23      | 28      | 34      | 43      | 112     | 89       | 80     | 420   |
| NNW                   | 0                      | 8       | 7       | 4       | 23      | 23      | 29      | 43      | 43      | 7        | 3      | 190   |
| Tot                   | 1                      | 72      | 141     | 187     | 417     | 426     | 445     | 371     | 530     | 331      | 268    | 3189  |

Hours of Calm . . . . . 5  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 3194  
 Hours of Missing Data . . . . . 184  
 Hours in Period . . . . . 8760

SITE: LIMERICK GENERATING STATION - UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 15 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, January - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Dec for years 2007 - 2007  
 Stability Class E Slightly Stable based on Lapse Rate  
 Elevations:: Winds 270ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 7       | 6       | 11      | 20      | 26      | 19      | 27      | 35      | 13       | 1      | 165   |
| NNE                   | 0                      | 6       | 6       | 13      | 20      | 28      | 30      | 16      | 8       | 2        | 0      | 129   |
| NE                    | 0                      | 5       | 10      | 12      | 29      | 26      | 22      | 14      | 2       | 1        | 0      | 121   |
| ENE                   | 0                      | 7       | 11      | 9       | 27      | 35      | 23      | 17      | 14      | 0        | 0      | 143   |
| E                     | 0                      | 11      | 8       | 10      | 11      | 9       | 9       | 15      | 18      | 9        | 1      | 101   |
| ESE                   | 0                      | 5       | 8       | 9       | 17      | 7       | 2       | 8       | 14      | 4        | 0      | 74    |
| SE                    | 2                      | 7       | 7       | 19      | 26      | 8       | 11      | 4       | 3       | 2        | 0      | 89    |
| SSE                   | 0                      | 3       | 3       | 8       | 20      | 19      | 30      | 27      | 13      | 6        | 4      | 133   |
| S                     | 0                      | 3       | 5       | 7       | 37      | 61      | 80      | 80      | 53      | 4        | 3      | 333   |
| SSW                   | 0                      | 1       | 7       | 8       | 61      | 81      | 69      | 42      | 26      | 15       | 2      | 312   |
| SW                    | 0                      | 5       | 4       | 17      | 60      | 52      | 32      | 20      | 14      | 1        | 3      | 208   |
| WSW                   | 0                      | 7       | 12      | 12      | 39      | 39      | 27      | 24      | 19      | 5        | 2      | 186   |
| W                     | 0                      | 11      | 10      | 18      | 24      | 41      | 50      | 64      | 84      | 23       | 6      | 331   |
| WNW                   | 1                      | 2       | 6       | 19      | 47      | 59      | 68      | 68      | 71      | 32       | 28     | 401   |
| NW                    | 0                      | 5       | 9       | 11      | 16      | 26      | 19      | 31      | 29      | 12       | 3      | 161   |
| NNW                   | 0                      | 13      | 10      | 12      | 21      | 32      | 24      | 29      | 19      | 2        | 0      | 162   |
| Tot                   | 3                      | 98      | 122     | 195     | 475     | 549     | 515     | 486     | 422     | 131      | 53     | 3049  |

Hours of Calm . . . . . 8  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 3057  
 Hours of Missing Data . . . . . 184  
 Hours in Period . . . . . 8760

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 15 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, January - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Dec for years 2007 - 2007  
 Stability Class F Moderately Stable based on Lapse Rate  
 Elevations:: Winds 270ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 6       | 3       | 7       | 10      | 17      | 8       | 5       | 7       | 0        | 0      | 63    |
| NNE                   | 2                      | 2       | 5       | 3       | 9       | 6       | 7       | 1       | 1       | 0        | 0      | 36    |
| NE                    | 0                      | 4       | 3       | 5       | 5       | 8       | 1       | 0       | 0       | 0        | 0      | 26    |
| ENE                   | 0                      | 5       | 10      | 4       | 6       | 3       | 0       | 0       | 0       | 0        | 0      | 28    |
| E                     | 0                      | 1       | 3       | 3       | 6       | 4       | 4       | 1       | 1       | 0        | 0      | 23    |
| ESE                   | 0                      | 3       | 4       | 6       | 4       | 0       | 2       | 3       | 1       | 0        | 0      | 23    |
| SE                    | 0                      | 1       | 5       | 6       | 3       | 1       | 3       | 0       | 0       | 0        | 0      | 19    |
| SSE                   | 0                      | 2       | 6       | 4       | 6       | 7       | 3       | 1       | 0       | 0        | 0      | 29    |
| S                     | 0                      | 4       | 5       | 3       | 4       | 4       | 8       | 7       | 6       | 0        | 0      | 41    |
| SSW                   | 0                      | 4       | 9       | 8       | 21      | 11      | 8       | 11      | 1       | 1        | 0      | 74    |
| SW                    | 0                      | 5       | 8       | 6       | 21      | 18      | 12      | 7       | 3       | 1        | 0      | 81    |
| WSW                   | 0                      | 2       | 10      | 5       | 25      | 22      | 8       | 6       | 1       | 0        | 0      | 79    |
| W                     | 0                      | 3       | 2       | 9       | 26      | 21      | 10      | 19      | 6       | 0        | 0      | 96    |
| WNW                   | 0                      | 4       | 7       | 4       | 16      | 39      | 39      | 32      | 13      | 1        | 0      | 155   |
| NW                    | 0                      | 3       | 7       | 3       | 20      | 24      | 14      | 8       | 2       | 0        | 0      | 81    |
| NNW                   | 0                      | 2       | 7       | 4       | 21      | 12      | 4       | 6       | 0       | 0        | 0      | 56    |
| Tot                   | 2                      | 51      | 94      | 80      | 203     | 197     | 131     | 107     | 42      | 3        | 0      | 910   |

Hours of Calm . . . . . 7  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 917  
 Hours of Missing Data . . . . . 184  
 Hours in Period . . . . . 8760

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D - 15 Wind Speed by Direction Measured at 270 Feet for Various Stability Classes for the Limerick Generating Station, January - December, 2007

Joint Frequency Distribution

Site:: Limerick Generating Station  
 Period:: Months Jan - Dec for years 2007 - 2007  
 Stability Class G Extremely Stable based on Lapse Rate  
 Elevations:: Winds 270ft Stability 266ft

| Wind Direction Sector | Wind Speed Range (m/s) |         |         |         |         |         |         |         |         |          |        | Total |
|-----------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--------|-------|
|                       | <0.50                  | 0.5-1.0 | 1.1-1.5 | 1.6-2.0 | 2.1-3.0 | 3.1-4.0 | 4.1-5.0 | 5.1-6.0 | 6.1-8.0 | 8.1-10.0 | >10.00 |       |
| N                     | 0                      | 3       | 5       | 7       | 15      | 9       | 4       | 0       | 0       | 0        | 0      | 43    |
| NNE                   | 0                      | 1       | 4       | 0       | 4       | 6       | 2       | 3       | 1       | 0        | 0      | 21    |
| NE                    | 0                      | 6       | 2       | 0       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 9     |
| ENE                   | 0                      | 2       | 3       | 0       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 6     |
| E                     | 0                      | 0       | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 1     |
| ESE                   | 0                      | 2       | 4       | 2       | 0       | 1       | 0       | 0       | 0       | 0        | 0      | 9     |
| SE                    | 0                      | 2       | 2       | 0       | 0       | 0       | 0       | 0       | 0       | 0        | 0      | 4     |
| SSE                   | 1                      | 3       | 2       | 4       | 1       | 0       | 0       | 0       | 0       | 0        | 0      | 11    |
| S                     | 0                      | 2       | 1       | 2       | 4       | 1       | 0       | 1       | 1       | 0        | 0      | 12    |
| SSW                   | 0                      | 1       | 1       | 4       | 10      | 5       | 2       | 0       | 2       | 0        | 0      | 25    |
| SW                    | 0                      | 3       | 2       | 7       | 9       | 10      | 5       | 1       | 1       | 0        | 0      | 38    |
| WSW                   | 0                      | 0       | 8       | 9       | 18      | 4       | 2       | 1       | 0       | 0        | 0      | 42    |
| W                     | 0                      | 1       | 11      | 8       | 29      | 16      | 9       | 2       | 1       | 0        | 0      | 77    |
| WNW                   | 0                      | 2       | 10      | 12      | 27      | 17      | 24      | 10      | 4       | 0        | 0      | 106   |
| NW                    | 0                      | 6       | 7       | 11      | 19      | 11      | 6       | 1       | 0       | 0        | 0      | 61    |
| NNW                   | 0                      | 0       | 8       | 6       | 8       | 4       | 7       | 4       | 0       | 0        | 0      | 37    |
| Tot                   | 1                      | 34      | 71      | 72      | 146     | 84      | 61      | 23      | 10      | 0        | 0      | 502   |

Hours of Calm . . . . . 8  
 Hours of Variable Direction . . . . . 0  
 Hours of Valid Data . . . . . 510  
 Hours of Missing Data . . . . . 184  
 Hours in Period . . . . . 8760

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D – 16 Annual x/Q, x/Q depleted and D/Q values for the North Stack, Limerick Generating Station, 2007

Limerick Generating Station  
 x/Q, x/Q depleted and D/Q values

| Stack ID | North Stack - Flow = 251200 cfm |           |           | X/Q (s/m <sup>3</sup> ) |                         | D/Q (1/m <sup>2</sup> ) |
|----------|---------------------------------|-----------|-----------|-------------------------|-------------------------|-------------------------|
|          | Location                        | Direction | Range (m) | X/Q (s/m <sup>2</sup> ) |                         |                         |
|          |                                 |           |           | Undepleted<br>No Decay  | Depleted<br>8.05d Decay |                         |
| N        | Site Boundary                   | N         | 884       | 2.08E-07                | 1.89E-07                | 1.72E-09                |
| N        | Inhalation                      | N         | 965       | 1.85E-07                | 1.68E-07                | 1.53E-09                |
| N        | Vegetation                      | N         | 2574      | 7.35E-08                | 6.64E-08                | 4.20E-10                |
| N        | Meat                            | N         | 3414      | 6.68E-08                | 6.13E-08                | 2.86E-10                |
| N        | Cow                             | N         | 7562      | 4.49E-08                | 4.18E-08                | 8.46E-11                |
| N        | Nat'l Guard Stat                | NNE       | 682       | 3.81E-07                | 3.54E-07                | 4.19E-09                |
| N        | Site Boundary                   | NNE       | 793       | 3.09E-07                | 2.85E-07                | 3.48E-09                |
| N        | Inhalation                      | NNE       | 805       | 3.03E-07                | 2.79E-07                | 3.41E-09                |
| N        | Vegetation                      | NNE       | 805       | 3.03E-07                | 2.79E-07                | 3.41E-09                |
| N        | Meat                            | NNE       | 1585      | 1.28E-07                | 1.15E-07                | 1.45E-09                |
| N        | Site Boundary                   | NE        | 793       | 1.74E-07                | 1.61E-07                | 2.30E-09                |
| N        | Meat                            | NE        | 1097      | 1.11E-07                | 1.02E-07                | 1.57E-09                |
| N        | Inhalation                      | NE        | 1287      | 9.00E-08                | 8.17E-08                | 1.29E-09                |
| N        | Vegetation                      | NE        | 2414      | 5.49E-08                | 5.01E-08                | 5.31E-10                |
| N        | Site Boundary                   | ENE       | 793       | 1.48E-07                | 1.37E-07                | 1.94E-09                |
| N        | Inhalation                      | ENE       | 965       | 1.15E-07                | 1.06E-07                | 1.54E-09                |
| N        | Vegetation                      | ENE       | 2896      | 5.24E-08                | 4.87E-08                | 3.43E-10                |
| N        | Meat                            | ENE       | 3871      | 5.36E-08                | 5.06E-08                | 2.35E-10                |
| N        | Site Boundary                   | E         | 762       | 3.55E-07                | 3.27E-07                | 3.89E-09                |
| N        | Inhalation                      | E         | 965       | 2.58E-07                | 2.34E-07                | 2.80E-09                |
| N        | Vegetation                      | E         | 1770      | 1.23E-07                | 1.10E-07                | 1.22E-09                |
| N        | Meat                            | E         | 1890      | 1.16E-07                | 1.04E-07                | 1.11E-09                |
| N        | Site Boundary                   | ESE       | 762       | 8.15E-07                | 7.48E-07                | 1.03E-08                |
| N        | Inhalation                      | ESE       | 805       | 7.55E-07                | 6.91E-07                | 9.45E-09                |
| N        | Info Center                     | ESE       | 884       | 6.62E-07                | 6.02E-07                | 8.20E-09                |
| N        | Cow                             | ESE       | 1770      | 2.64E-07                | 2.34E-07                | 2.92E-09                |
| N        | Goat                            | ESE       | 1770      | 2.64E-07                | 2.34E-07                | 2.92E-09                |
| N        | Vegetation                      | ESE       | 1931      | 2.41E-07                | 2.13E-07                | 2.56E-09                |
| N        | Meat                            | ESE       | 4511      | 1.29E-07                | 1.16E-07                | 6.91E-10                |
| N        | Site Boundary                   | SE        | 762       | 1.10E-06                | 1.00E-06                | 1.63E-08                |
| N        | Inhalation                      | SE        | 1609      | 3.86E-07                | 3.41E-07                | 5.11E-09                |
| N        | Vegetation                      | SE        | 1770      | 3.41E-07                | 3.00E-07                | 4.40E-09                |
| N        | Meat                            | SE        | 7241      | 8.66E-08                | 7.61E-08                | 4.41E-10                |
| N        | Site Boundary                   | SSE       | 1006      | 2.19E-07                | 1.98E-07                | 2.60E-09                |
| N        | Inhalation                      | SSE       | 1609      | 1.19E-07                | 1.06E-07                | 1.34E-09                |
| N        | Vegetation                      | SSE       | 1931      | 9.74E-08                | 8.64E-08                | 1.02E-09                |
| N        | Meat                            | SSE       | 7224      | 3.97E-08                | 3.62E-08                | 1.34E-10                |
| N        | Cow                             | SSE       | 7562      | 3.85E-08                | 3.52E-08                | 1.24E-10                |
| N        | RR Tracks                       | S         | 300       | 9.76E-07                | 9.34E-07                | 8.56E-09                |

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D – 16 Annual x/Q, x/Q depleted and D/Q values for the North Stack, Limerick Generating Station, 2007

| Limerick Generating Station<br>x/Q, x/Q depleted and D/Q values |               |           |           |                                 |                         |                         |
|---|---------------|-----------|-----------|---------------------------------|-------------------------|-------------------------|
| Stack ID  | Location      | Direction | Range (m) | North Stack – Flow = 251200 cfm |                         | D/Q (1/m <sup>2</sup> ) |
|   |               |           |           | X/Q (s/m <sup>3</sup> )         | X/Q (s/m <sup>2</sup> ) |                         |
|   |               |           |           | Undepleted<br>No Decay          | Depleted<br>8.05d Decay |                         |
| N   | Site Boundary | S         | 762       | 2.21E-07                        | 2.03E-07                | 2.34E-09                |
| N   | Inhalation    | S         | 1287      | 1.10E-07                        | 9.85E-08                | 1.15E-09                |
| N   | Vegetation    | S         | 1931      | 7.18E-08                        | 6.41E-08                | 6.67E-10                |
| N   | Meat          | S         | 3018      | 5.67E-08                        | 5.16E-08                | 3.57E-10                |
| N   | Cow           | S         | 3701      | 5.32E-08                        | 4.89E-08                | 2.67E-10                |
| N   | RR Tracks     | SSW       | 225       | 1.09E-06                        | 1.05E-06                | 7.01E-09                |
| N   | Site Boundary | SSW       | 762       | 1.46E-07                        | 1.34E-07                | 1.35E-09                |
| N   | Meat          | SSW       | 1433      | 6.32E-08                        | 5.63E-08                | 6.50E-10                |
| N   | Inhalation    | SSW       | 1609      | 5.58E-08                        | 4.97E-08                | 5.71E-10                |
| N   | Vegetation    | SSW       | 2253      | 4.39E-08                        | 3.95E-08                | 3.78E-10                |
| N   | Cow           | SSW       | 2896      | 4.07E-08                        | 3.71E-08                | 2.75E-10                |
| N   | RR Tracks     | SW        | 225       | 8.90E-07                        | 8.60E-07                | 5.38E-09                |
| N   | Site Boundary | SW        | 884       | 9.91E-08                        | 9.03E-08                | 8.60E-10                |
| N   | Inhalation    | SW        | 965       | 8.79E-08                        | 7.97E-08                | 7.73E-10                |
| N   | Vegetation    | SW        | 965       | 8.79E-08                        | 7.97E-08                | 7.73E-10                |
| N   | Meat          | SW        | 2835      | 3.65E-08                        | 3.35E-08                | 2.37E-10                |
| N   | Cow           | SW        | 4827      | 3.49E-08                        | 3.28E-08                | 1.20E-10                |
| N   | RR Tracks     | WSW       | 345       | 7.03E-07                        | 6.70E-07                | 4.66E-09                |
| N   | Fricks Lock   | WSW       | 450       | 4.42E-07                        | 4.17E-07                | 3.25E-09                |
| N   | Site Boundary | WSW       | 854       | 1.74E-07                        | 1.59E-07                | 1.36E-09                |
| N   | Inhalation    | WSW       | 1287      | 1.01E-07                        | 9.05E-08                | 8.83E-10                |
| N   | Vegetation    | WSW       | 1287      | 1.01E-07                        | 9.05E-08                | 8.83E-10                |
| N   | Meat          | WSW       | 2134      | 6.51E-08                        | 5.85E-08                | 5.34E-10                |
| N   | Cow           | WSW       | 4505      | 5.18E-08                        | 4.81E-08                | 2.17E-10                |
| N   | RR Tracks     | W         | 225       | 1.46E-06                        | 1.41E-06                | 9.60E-09                |
| N   | Site Boundary | W         | 854       | 1.67E-07                        | 1.52E-07                | 1.51E-09                |
| N   | Inhalation    | W         | 965       | 1.41E-07                        | 1.28E-07                | 1.28E-09                |
| N   | Vegetation    | W         | 3540      | 4.44E-08                        | 4.03E-08                | 2.48E-10                |
| N   | Meat          | W         | 4084      | 4.14E-08                        | 3.78E-08                | 2.04E-10                |
| N   | RR Tracks     | WNW       | 345       | 3.93E-07                        | 3.75E-07                | 3.69E-09                |
| N   | Site Boundary | WNW       | 793       | 1.09E-07                        | 9.98E-08                | 1.14E-09                |
| N   | Inhalation    | WNW       | 1126      | 6.69E-08                        | 6.01E-08                | 7.14E-10                |
| N   | Vegetation    | WNW       | 1126      | 6.69E-08                        | 6.01E-08                | 7.14E-10                |
| N   | RR Tracks     | NW        | 450       | 1.04E-07                        | 9.81E-08                | 7.30E-10                |
| N   | Site Boundary | NW        | 762       | 4.71E-08                        | 4.34E-08                | 3.82E-10                |
| N   | Inhalation    | NW        | 2092      | 1.55E-08                        | 1.40E-08                | 1.18E-10                |
| N   | Vegetation    | NW        | 2574      | 1.46E-08                        | 1.33E-08                | 8.99E-11                |
| N   | Meat          | NW        | 6660      | 1.25E-08                        | 1.18E-08                | 2.39E-11                |
| N   | Site Boundary | NNW       | 884       | 8.84E-08                        | 8.06E-08                | 7.92E-10                |
| N   | Inhalation    | NNW       | 1448      | 4.71E-08                        | 4.20E-08                | 4.40E-10                |
| N   | Vegetation    | NNW       | 1931      | 3.65E-08                        | 3.25E-08                | 3.01E-10                |
| N   | Meat          | NNW       | 6325      | 2.38E-08                        | 2.23E-08                | 5.60E-11                |

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D – 17 Annual x/Q, x/Q depleted and D/Q values for the South Stack, Limerick Generating Station, 2007

Limerick Generating Station  
 x/Q, x/Q depleted and D/Q values  
 South Stack - Flow = 177200 cfm

| Stack ID | Location         | Direction | Range (m) | X/Q (s/m <sup>3</sup> ) | X/Q (s/m <sup>2</sup> ) |          | D/Q (1/m <sup>2</sup> ) |
|----------|------------------|-----------|-----------|-------------------------|-------------------------|----------|-------------------------|
|          |                  |           |           | Undepleted<br>No Decay  | Depleted<br>8.05d Decay |          |                         |
| S        | Site Boundary    | N         | 884       | 7.17E-08                | 6.59E-08                | 9.92E-10 |                         |
| S        | Inhalation       | N         | 965       | 6.48E-08                | 5.93E-08                | 9.06E-10 |                         |
| S        | Vegetation       | N         | 2574      | 4.33E-08                | 4.08E-08                | 3.15E-10 |                         |
| S        | Meat             | N         | 3414      | 4.69E-08                | 4.48E-08                | 2.25E-10 |                         |
| S        | Cow              | N         | 7562      | 3.95E-08                | 3.79E-08                | 7.12E-11 |                         |
| S        | Nat'l Guard Stat | NNE       | 682       | 1.37E-07                | 1.29E-07                | 2.67E-09 |                         |
| S        | Site Boundary    | NNE       | 793       | 1.14E-07                | 1.07E-07                | 2.31E-09 |                         |
| S        | Inhalation       | NNE       | 805       | 1.12E-07                | 1.05E-07                | 2.28E-09 |                         |
| S        | Vegetation       | NNE       | 805       | 1.12E-07                | 1.05E-07                | 2.28E-09 |                         |
| S        | Meat             | NNE       | 1585      | 5.72E-08                | 5.29E-08                | 1.12E-09 |                         |
| S        | Site Boundary    | NE        | 793       | 6.13E-08                | 5.86E-08                | 1.70E-09 |                         |
| S        | Meat             | NE        | 1097      | 4.26E-08                | 4.03E-08                | 1.24E-09 |                         |
| S        | Inhalation       | NE        | 1287      | 3.59E-08                | 3.38E-08                | 1.05E-09 |                         |
| S        | Vegetation       | NE        | 2414      | 3.20E-08                | 3.06E-08                | 4.56E-10 |                         |
| S        | Site Boundary    | ENE       | 793       | 5.13E-08                | 4.89E-08                | 1.42E-09 |                         |
| S        | Inhalation       | ENE       | 965       | 4.28E-08                | 4.06E-08                | 1.18E-09 |                         |
| S        | Vegetation       | ENE       | 2896      | 3.64E-08                | 3.51E-08                | 2.98E-10 |                         |
| S        | Meat             | ENE       | 3871      | 4.22E-08                | 4.10E-08                | 2.10E-10 |                         |
| S        | Site Boundary    | E         | 762       | 1.21E-07                | 1.12E-07                | 2.13E-09 |                         |
| S        | Inhalation       | E         | 965       | 9.26E-08                | 8.56E-08                | 1.64E-09 |                         |
| S        | Vegetation       | E         | 1770      | 5.66E-08                | 5.23E-08                | 8.58E-10 |                         |
| S        | Meat             | E         | 1890      | 5.61E-08                | 5.20E-08                | 7.88E-10 |                         |
| S        | Site Boundary    | ESE       | 762       | 2.83E-07                | 2.61E-07                | 4.78E-09 |                         |
| S        | Inhalation       | ESE       | 805       | 2.64E-07                | 2.43E-07                | 4.46E-09 |                         |
| S        | Info Center      | ESE       | 884       | 2.35E-07                | 2.16E-07                | 3.97E-09 |                         |
| S        | Cow              | ESE       | 1770      | 1.22E-07                | 1.12E-07                | 1.83E-09 |                         |
| S        | Goat             | ESE       | 1770      | 1.22E-07                | 1.12E-07                | 1.83E-09 |                         |
| S        | Vegetation       | ESE       | 1931      | 1.18E-07                | 1.08E-07                | 1.64E-09 |                         |
| S        | Meat             | ESE       | 4511      | 9.95E-08                | 9.42E-08                | 5.47E-10 |                         |
| S        | Site Boundary    | SE        | 762       | 4.42E-07                | 4.07E-07                | 8.17E-09 |                         |
| S        | Inhalation       | SE        | 1609      | 1.90E-07                | 1.72E-07                | 3.15E-09 |                         |
| S        | Vegetation       | SE        | 1770      | 1.75E-07                | 1.59E-07                | 2.78E-09 |                         |
| S        | Meat             | SE        | 7241      | 7.45E-08                | 6.88E-08                | 3.76E-10 |                         |
| S        | Site Boundary    | SSE       | 1006      | 8.33E-08                | 7.62E-08                | 1.32E-09 |                         |
| S        | Inhalation       | SSE       | 1609      | 5.48E-08                | 5.02E-08                | 8.41E-10 |                         |
| S        | Vegetation       | SSE       | 1931      | 5.01E-08                | 4.62E-08                | 6.79E-10 |                         |
| S        | Meat             | SSE       | 7224      | 3.47E-08                | 3.28E-08                | 1.16E-10 |                         |
| S        | Cow              | SSE       | 7562      | 3.39E-08                | 3.20E-08                | 1.08E-10 |                         |

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2  
 LICENSEE: EXELON GENERATION COMPANY, LLC

Table D – 17. Annual x/Q, x/Q depleted and D/Q values for the South Stack, Limerick Generating Station, 2007

Limerick Generating Station  
 x/Q, x/Q depleted and D/Q values  
 South Stack - Flow = 177200 cfm

| Stack ID | Location      | Direction | Range (m) | X/Q (s/m <sup>3</sup> ) |                         | D/Q (1/m <sup>2</sup> ) |
|----------|---------------|-----------|-----------|-------------------------|-------------------------|-------------------------|
|          |               |           |           | Undepleted<br>No Decay  | Depleted<br>8.05d Decay |                         |
| S        | RR Tracks     | S         | 300       | 3.32E-07                | 3.18E-07                | 3.38E-09                |
| S        | Site Boundary | S         | 762       | 8.18E-08                | 7.57E-08                | 1.18E-09                |
| S        | Inhalation    | S         | 1287      | 4.58E-08                | 4.18E-08                | 6.96E-10                |
| S        | Vegetation    | S         | 1931      | 3.69E-08                | 3.40E-08                | 4.62E-10                |
| S        | Meat          | S         | 3018      | 3.88E-08                | 3.68E-08                | 2.73E-10                |
| S        | Cow           | S         | 3701      | 4.00E-08                | 3.82E-08                | 2.12E-10                |
| S        | RR Tracks     | SSW       | 225       | 3.15E-07                | 3.04E-07                | 2.60E-09                |
| S        | Site Boundary | SSW       | 762       | 4.65E-08                | 4.30E-08                | 6.92E-10                |
| S        | Meat          | SSW       | 1433      | 2.31E-08                | 2.11E-08                | 4.43E-10                |
| S        | Inhalation    | SSW       | 1609      | 2.19E-08                | 2.00E-08                | 4.06E-10                |
| S        | Vegetation    | SSW       | 2253      | 2.29E-08                | 2.14E-08                | 2.92E-10                |
| S        | Cow           | SSW       | 2896      | 2.58E-08                | 2.46E-08                | 2.23E-10                |
| S        | RR Tracks     | SW        | 225       | 2.69E-07                | 2.60E-07                | 2.05E-09                |
| S        | Site Boundary | SW        | 884       | 3.40E-08                | 3.13E-08                | 4.76E-10                |
| S        | Inhalation    | SW        | 965       | 3.06E-08                | 2.81E-08                | 4.44E-10                |
| S        | Vegetation    | SW        | 965       | 3.06E-08                | 2.81E-08                | 4.44E-10                |
| S        | Meat          | SW        | 2835      | 2.37E-08                | 2.26E-08                | 1.96E-10                |
| S        | Cow           | SW        | 4027      | 2.86E-08                | 2.76E-08                | 1.07E-10                |
| S        | RR Tracks     | WSW       | 345       | 2.18E-07                | 2.08E-07                | 1.92E-09                |
| S        | Fricks Lock   | WSW       | 450       | 1.39E-07                | 1.31E-07                | 1.42E-09                |
| S        | Site Boundary | WSW       | 854       | 5.80E-08                | 5.32E-08                | 7.17E-10                |
| S        | Inhalation    | WSW       | 1287      | 3.62E-08                | 3.27E-08                | 5.76E-10                |
| S        | Vegetation    | WSW       | 1287      | 3.62E-08                | 3.27E-08                | 5.76E-10                |
| S        | Meat          | WSW       | 2134      | 3.29E-08                | 3.07E-08                | 4.19E-10                |
| S        | Cow           | WSW       | 4505      | 4.10E-08                | 3.93E-08                | 1.93E-10                |
| S        | RR Tracks     | W         | 225       | 4.76E-07                | 4.60E-07                | 3.62E-09                |
| S        | Site Boundary | W         | 854       | 5.87E-08                | 5.39E-08                | 7.52E-10                |
| S        | Inhalation    | W         | 965       | 5.07E-08                | 4.63E-08                | 6.67E-10                |
| S        | Vegetation    | W         | 3540      | 3.12E-08                | 2.95E-08                | 1.98E-10                |
| S        | Meat          | W         | 4084      | 3.09E-08                | 2.93E-08                | 1.67E-10                |
| S        | RR Tracks     | WNW       | 345       | 1.08E-07                | 1.03E-07                | 1.36E-09                |
| S        | Site Boundary | WNW       | 793       | 3.34E-08                | 3.09E-08                | 5.20E-10                |
| S        | Inhalation    | WNW       | 1126      | 2.18E-08                | 1.99E-08                | 3.77E-10                |
| S        | Vegetation    | WNW       | 1126      | 2.18E-08                | 1.99E-08                | 3.77E-10                |
| S        | RR Tracks     | NW        | 450       | 2.43E-08                | 2.30E-08                | 3.32E-10                |
| S        | Site Boundary | NW        | 762       | 1.29E-08                | 1.21E-08                | 2.13E-10                |
| S        | Inhalation    | NW        | 2092      | 7.18E-09                | 6.77E-09                | 9.04E-11                |
| S        | Vegetation    | NW        | 2574      | 8.25E-09                | 7.88E-09                | 7.08E-11                |
| S        | Meat          | NW        | 6660      | 1.07E-08                | 1.04E-08                | 2.08E-11                |
| S        | Site Boundary | NNW       | 884       | 2.59E-08                | 2.39E-08                | 4.61E-10                |
| S        | Inhalation    | NNW       | 1448      | 1.57E-08                | 1.44E-08                | 3.01E-10                |
| S        | Vegetation    | NNW       | 1931      | 1.54E-08                | 1.43E-08                | 2.19E-10                |
| S        | Meat          | NNW       | 6325      | 2.02E-08                | 1.95E-08                | 4.69E-11                |