

Exelon Nuclear
Limerick Generating Station
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T.S. 6.9.1.8

April 27, 2007

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

Limerick Generating Station, Unit 1 and 2
Facility Operating License Nos. NPF-39 and NPF-85
NRC Docket Nos. 50-352 and 50-353

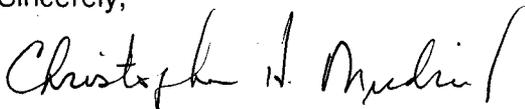
Subject: 2006 Annual Radioactive Effluent Release Report

In accordance with Section 6.9.1.8 of Limerick Generating Station (LGS) Technical Specifications and Section 6.2 of the Offsite Dose Calculation Manual, attached is the 2006 Annual Radioactive Effluent Release Report No. 32 for LGS. There have been no revisions to the Limerick Offsite Dose Calculation Manual since the last report.

There are no commitments contained in this letter.

If you have any questions or require additional information, please do not hesitate to contact us.

Sincerely,



Christopher H. Mudrick
Vice President-LGS
Exelon Generation Company, LLC

Attachments: 2006 Annual Radioactive Effluent Release Report No. 32 for LGS

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IE48

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D. Helker - KSA 3P (w/o Attachment)
D. Dicello - GML 1-1 (w/Attachment)
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D. Wahl – SSB 2-3 (w/Attachment)
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D. Ney - PADEP BRP (w/Attachment)
S. Focht – ANI (w/Attachment)

ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

NO. 32

January 1, 2006 Through December 31, 2006

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, 2006 through December 31, 2006. 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.

All vendor results were received and included in the report calculations. Therefore the 2006 report is complete.

2. Supplemental Information

A. Regulatory Limits

Limit	Units	Receptor	ODCM and 10 CFR 50, Appendix I Design Objective Limits
1. Noble Gases:			
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 ODCM Control 3.2.2.2.a
≤ 20	mRad	Air Beta	
c. ≤ 20	mRad	Air Gamma	Yearly air dose limits 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)	
2. Iodines, Tritium, Particulates with Half Life >8 days:			
a. ≤ 1500	mrem/Yr	Any Organ	ODCM Control 3.2.2.1.b
b. ≤ 15	mrem	Any Organ	Quarterly dose limits ODCM Control 3.2.2.3.a
c. ≤ 30	mrem	Any Organ	Yearly dose limits ODCM Control 3.2.2.3.b
3. Liquid Effluents			
a.	Concentration 10 CFR 20, Appendix B, Table II Col. 2 (pre 1994)		ODCM Control 3.2.1.1
b. ≤ 3	mrem	Total Body	Quarterly dose limits ODCM Control 3.2.1.2.a
≤ 10	mrem	Any Organ	
c. ≤ 6	mrem	Total Body	Yearly dose limits ODCM Control 3.2.1.2.b
≤ 20	mrem	Any Organ	
4. 40 CFR 190			
≤ 25	mrem	Total Body	Yearly dose limits ODCM Control 3.2.3
≤ 75	mrem	Thyroid	

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B. Maximum Permissible Concentrations:

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 Maximum Permissible Concentrations (MPC) specified in 10 CFR 20, Appendix B, Table II, Column 2 (pre 1994) 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 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. Therefore, 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," 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 are 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 was 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. When no isotopic activity was identified in the grab noble gas samples, 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 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.

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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:

Airborne:	LLD
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, 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
Liquid:	
Principal Gamma Emitters (Mn-54, Fe-59, Co-58, Co-60, Zn-65, 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
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.

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E. Batch Releases:

1. Liquid

	Qtr 1	Qtr 2	Qtr 3	Qtr 4
Number of Batch Releases	5.00E+01	3.50E+01	4.80E+01	4.50E+01
Total time period for batch releases (min)	3.73E+03	2.85E+03	3.72E+03	3.49E+03
Maximum time period for batch release (min)	9.93E+01	2.49E+02	9.10E+01	1.08E+02
Average time period for batch release (min)	7.46E+01	8.16E+01	7.76E+01	7.76E+01
Minimum time period for batch release (min)	5.47E+01	6.37E+01	4.72E+01	4.63E+01
Average stream flow (Schuylkill River) during periods of release of effluents into a flowing stream (gpm)	8.79E+05	1.35E+06	1.29E+06	1.26E+06

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	2.00E+00	1.00E+00	0.00E+00	1.00E+00
Total time period for batch releases (min)	1.15E+04	9.98E+03	0.00E+00	1.02E+04
Maximum time period for batch release (min)	1.44E+03	9.98E+03	0.00E+00	1.02E+04
Average time period for batch release (min)	5.73E+03	9.98E+03	0.00E+00	1.02E+04
Minimum time period for batch release (min)	1.00E+04	9.98E+03	0.00E+00	1.02E+04

F. Abnormal Releases:

1. <u>Liquid</u>	Qtr 1	Qtr 2	Qtr 3	Qtr 4
Number of Releases	1.00E+00	2.00E+00	0.00E+00	0.00E+00
Total Activity Released (Ci)	1.65E-05	1.83E-03	0.00E+00	0.00E+00
2. <u>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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G. Revisions to the ODCM

There were no revisions made to the station's ODCM in 2006.

H. 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.

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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 2006

A. FISSION AND ACTIVATION GASSES

	Units	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Est. Total Error %
1. Total Release	Ci	8.22E+00	1.80E+01	1.29E+01	8.96E-01	3.66E+01
2. Average Release Rate for Period	uCi/sec	1.05E+00	2.29E+00	1.63E+00	1.14E-01	
3. Dose						
- Gamma Air Dose	mrad	8.85E-03	1.78E-02	1.28E-02	1.41E-03	
- Beta Air Dose	mrad	6.00E-03	1.11E-02	7.95E-03	8.28E-04	
4. Percent of ODCM Limit						
- Gamma Air Dose	%	8.85E-02	1.78E-01	1.28E-01	1.41E-02	
- Beta Air Dose	%	3.00E-02	5.55E-02	3.98E-02	4.14E-03	

B. IODINES

	Units	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Est. Total Error %
1. Total – I-131	Ci	2.31E-05	<LLD	<LLD	<LLD	2.04E+01
2. Average Release Rate for Period	uCi/sec	2.93E-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	1.22E-03	1.02E-05	8.42E-06	3.74E-10	2.26E+01
2. Average Release Rate for Period	uCi/sec	1.55E-04	1.30E-06	1.07E-06	4.77E-11	
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	4.84E+00	5.65E+00	<LLD	<LLD	1.57E+01
2. Average Release Rate for Period	uCi/sec	6.16E-01	7.19E-01	<LLD	<LLD	
3. Percent of ODCM Limit	%	*	*	*	*	

E. Iodine 131 & 133, Tritium & Particulate

	Units	Qtr 1	Qtr 2	Qtr 3	Qtr 4
1. Organ Dose	mrem	1.25E-02	1.34E-02	9.97E-07	1.09E-09
2. Percent of ODCM Limit	%	8.33E-02	8.93E-02	6.65E-06	7.27E-09

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

SITE: LIMERICK GENERATING STATION – UNITS 1 & 2
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TABLE A - 2 GASEOUS EFFLUENTS FOR RELEASE POINT – NORTH STACK

PERIOD 2006

1. FISSION AND ACTIVATION GASSES

Nuclide Released	Continuous Mode				
	Units	Qtr 1	Qtr 2	Qtr 3	Qtr 4
AR-41	Ci	<LLD	<LLD	<LLD	<LLD
KR-85	Ci	2.02E-01	3.20E-03	6.91E-03	3.95E-02
KR-85M	Ci	5.35E-02	8.46E-04	1.83E-03	1.05E-02
KR-87	Ci	9.38E-02	1.48E-03	3.21E-03	1.83E-02
KR-88	Ci	1.66E-01	2.62E-03	5.67E-03	3.24E-02
XE-131M	Ci	5.07E-03	8.00E-05	1.73E-04	9.90E-04
XE-133	Ci	1.97E+00	2.98E-04	6.45E-04	3.69E-03
XE-135	Ci	1.80E+00	1.17E-02	2.52E-02	1.44E-01
XE-135M	Ci	1.14E+00	7.44E-03	1.61E-02	9.20E-02
XE-138	Ci	1.01E+00	1.60E-02	3.45E-02	1.97E-01
Total for Period	Ci	6.43E+00	4.36E-02	9.42E-02	5.39E-01

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
I-135	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
SR-89	Ci	<LLD	<LLD	<LLD	<LLD
SR-90	Ci	<LLD	<LLD	<LLD	<LLD
CS-134	Ci	<LLD	<LLD	<LLD	<LLD
CS-137	Ci	<LLD	<LLD	<LLD	<LLD
BA-140	Ci	<LLD	<LLD	<LLD	<LLD
LA-140	Ci	<LLD	<LLD	<LLD	<LLD
CE-141	Ci	<LLD	<LLD	<LLD	<LLD
CR-51	Ci	<LLD	<LLD	<LLD	<LLD
MN-54	Ci	<LLD	<LLD	<LLD	<LLD
CO-58	Ci	<LLD	<LLD	<LLD	<LLD
CO-60	Ci	<LLD	<LLD	<LLD	<LLD
MO-99	Ci	<LLD	<LLD	<LLD	<LLD
AG-110M	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
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TABLE A - 3 GASEOUS EFFLUENTS FOR RELEASE POINT – UNIT 1 SOUTH STACK PERIOD 2006

1. FISSION AND ACTIVATION GASSES

Nuclide Released	Continuous Mode				
	Units	Qtr 1	Qtr 2	Qtr 3	Qtr 4
AR-41	Ci	8.67E-03	1.11E+00	8.93E-01	1.60E-02
KR-85	Ci	<LLD	<LLD	<LLD	<LLD
KR-85M	Ci	2.08E-03	2.65E-01	2.14E-01	3.83E-03
KR-87	Ci	2.08E-03	2.65E-01	2.14E-01	3.83E-03
KR-88	Ci	2.08E-03	2.65E-01	2.14E-01	3.83E-03
XE-133	Ci	4.51E-02	5.75E+00	4.64E+00	8.29E-02
XE-135	Ci	2.36E-02	3.01E+00	2.42E+00	4.34E-02
XE-135M	Ci	3.19E-02	4.07E+00	3.28E+00	5.87E-02
XE-138	Ci	4.86E-03	6.20E-01	5.00E-01	8.94E-03
Total for Period	Ci	1.20E-01	1.54E+01	1.24E+01	2.21E-01

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
I-135	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
SR-89	Ci	<LLD	<LLD	<LLD	<LLD
SR-90	Ci	<LLD	<LLD	<LLD	<LLD
CS-134	Ci	<LLD	<LLD	<LLD	<LLD
CS-137	Ci	<LLD	<LLD	<LLD	<LLD
BA-140	Ci	<LLD	<LLD	<LLD	<LLD
LA-140	Ci	<LLD	<LLD	<LLD	<LLD
CE-141	Ci	<LLD	<LLD	<LLD	<LLD
CR-51	Ci	<LLD	<LLD	<LLD	<LLD
MN-54	Ci	1.14E-05	<LLD	<LLD	<LLD
CO-58	Ci	<LLD	<LLD	<LLD	<LLD
CO-60	Ci	1.59E-05	<LLD	<LLD	<LLD
MO-99	Ci	<LLD	<LLD	<LLD	<LLD
AG-110M	Ci	<LLD	<LLD	<LLD	<LLD
CE-144	Ci	<LLD	<LLD	<LLD	<LLD
ND-147	Ci	<LLD	9.86E-06	<LLD	<LLD
Total for Period	Ci	2.73E-05	9.86E-06	<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 2006

1. FISSION AND ACTIVATION GASSES

Nuclide Released	Continuous Mode				
	Units	Qtr 1	Qtr 2	Qtr 3	Qtr 4
AR-41	Ci	1.17E-01	1.90E-01	2.76E-02	9.74E-03
KR-85	Ci	<LLD	<LLD	<LLD	<LLD
KR-85M	Ci	2.80E-02	4.54E-02	6.60E-03	2.34E-03
KR-87	Ci	2.80E-02	4.54E-02	6.60E-03	2.34E-03
KR-88	Ci	2.80E-02	4.54E-02	6.60E-03	2.34E-03
XE-133	Ci	6.61E-01	9.85E-01	1.43E-01	5.06E-02
XE-135	Ci	3.18E-01	5.15E-01	7.49E-02	2.65E-02
XE-135M	Ci	4.30E-01	6.97E-01	1.01E-01	3.58E-02
XE-138	Ci	6.55E-02	1.06E-01	1.54E-02	5.46E-03
Total for Period	Ci	1.68E+00	2.63E+00	3.82E-01	1.35E-01

2. IODINES

Nuclide Released	Continuous Mode				
	Units	Qtr 1	Qtr 2	Qtr 3	Qtr 4
I-131	Ci	2.31E-05	<LLD	<LLD	<LLD
I-133	Ci	<LLD	<LLD	<LLD	<LLD
I-135	Ci	<LLD	<LLD	<LLD	<LLD
Total for Period	Ci	2.31E-05	<LLD	<LLD	<LLD

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

Nuclide Released	Continuous Mode				
	Units	Qtr 1	Qtr 2	Qtr 3	Qtr 4
SR-89	Ci	<LLD	<LLD	<LLD	<LLD
SR-90	Ci	<LLD	<LLD	<LLD	<LLD
CS-134	Ci	<LLD	<LLD	<LLD	<LLD
CS-137	Ci	<LLD	<LLD	<LLD	<LLD
BA-140	Ci	<LLD	<LLD	<LLD	<LLD
LA-140	Ci	<LLD	<LLD	<LLD	<LLD
CE-141	Ci	<LLD	<LLD	<LLD	<LLD
CR-51	Ci	2.11E-05	<LLD	<LLD	<LLD
MN-54	Ci	1.66E-05	<LLD	<LLD	<LLD
CO-58	Ci	2.39E-06	<LLD	<LLD	<LLD
CO-60	Ci	1.32E-05	<LLD	<LLD	<LLD
MO-99	Ci	<LLD	<LLD	<LLD	<LLD
AG-110M	Ci	<LLD	<LLD	<LLD	<LLD
CE-144	Ci	<LLD	<LLD	<LLD	<LLD
ND-147	Ci	<LLD	<LLD	8.42E-06	<LLD
FE-59	Ci	9.58E-06	<LLD	<LLD	<LLD
Total for Period	Ci	6.28E-05	<LLD	8.42E-06	<LLD

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

TABLE A - 5 GASEOUS EFFLUENTS FOR RELEASE POINT – HOT MAINTENANCE SHOPPERIOD 2006

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	<LLD	<LLD	<LLD	<LLD
I-133	Ci	<LLD	<LLD	<LLD	<LLD
I-135	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
SR-89	Ci	<LLD	<LLD	<LLD	<LLD
SR-90	Ci	<LLD	<LLD	<LLD	<LLD
CS-134	Ci	<LLD	<LLD	<LLD	<LLD
CS-137	Ci	<LLD	<LLD	<LLD	<LLD
BA-140	Ci	<LLD	<LLD	<LLD	<LLD
LA-140	Ci	<LLD	<LLD	<LLD	<LLD
CE-141	Ci	<LLD	<LLD	<LLD	<LLD
CR-51	Ci	<LLD	<LLD	<LLD	<LLD
MN-54	Ci	<LLD	<LLD	<LLD	<LLD
CO-58	Ci	<LLD	<LLD	<LLD	<LLD
CO-60	Ci	<LLD	<LLD	<LLD	<LLD
MO-99	Ci	<LLD	<LLD	<LLD	<LLD
AG-110M	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 2006

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
I-135	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
SR-89	Ci	N/A	N/A	N/A	N/A
SR-90	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
BA-140	Ci	N/A	N/A	N/A	N/A
LA-140	Ci	N/A	N/A	N/A	N/A
CR-51	Ci	N/A	N/A	N/A	N/A
MN-54	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
MO-99	Ci	N/A	N/A	N/A	N/A
AG-110M	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
FE-55	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 2006

1. FISSION AND ACTIVATION GASSES

Nuclide Released	Batch Release				
	Units	Qtr 1	Qtr 2	Qtr 3	Qtr 4
AR-41	Ci	<LLD	<LLD	<LLD	<LLD
KR-85	Ci	<LLD	<LLD	<LLD	<LLD
KR-85M	Ci	<LLD	<LLD	<LLD	<LLD
KR-87	Ci	<LLD	<LLD	<LLD	<LLD
KR-88	Ci	<LLD	<LLD	<LLD	<LLD
XE-133	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
I-135	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
SR-89	Ci	<LLD	<LLD	<LLD	<LLD
SR-90	Ci	<LLD	<LLD	<LLD	<LLD
CS-134	Ci	<LLD	<LLD	<LLD	<LLD
CS-137	Ci	<LLD	<LLD	<LLD	<LLD
BA-140	Ci	<LLD	<LLD	<LLD	<LLD
LA-140	Ci	<LLD	<LLD	<LLD	<LLD
CR-51	Ci	4.70E-04	<LLD	<LLD	<LLD
MN-54	Ci	2.49E-04	<LLD	<LLD	1.26E-10
CO-58	Ci	4.57E-05	<LLD	<LLD	<LLD
CO-60	Ci	2.02E-04	3.77E-07	<LLD	2.48E-10
MO-99	Ci	<LLD	<LLD	<LLD	<LLD
AG-110M	Ci	<LLD	<LLD	<LLD	<LLD
CE-141	Ci	<LLD	<LLD	<LLD	<LLD
CE-144	Ci	<LLD	<LLD	<LLD	<LLD
ZN-65	Ci	4.74E-05	<LLD	<LLD	<LLD
ZR-95	Ci	4.70E-06	<LLD	<LLD	<LLD
NB-95	Ci	5.30E-06	<LLD	<LLD	<LLD
FE-59	Ci	1.00E-04	<LLD	<LLD	<LLD
ND-147	Ci	6.78E-07	<LLD	<LLD	<LLD
Total for Period	Ci	1.13E-03	3.77E-07	<LLD	3.74E-10

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

TABLE A - 8 LIQUID EFFLUENTS – SUMMATION OF ALL RELEASES

PERIOD 2006

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	1.24E-03	5.33E-04	5.13E-04	6.61E-04	2.11E+01
2. Average diluted concentration during batch discharge for the period	uCi/ml	1.45E-08	7.81E-09	5.82E-09	7.81E-09	
3. Dose - Whole Body	mrem	5.57E-04	3.22E-04	5.90E-04	5.31E-04	
- Organ	mrem	7.21E-04	3.23E-04	8.39E-04	5.32E-04	
4. % of ODCM Limit - Whole Body Dose*	%	1.86E-02	1.07E-02	1.97E-02	1.77E-02	
- Organ Dose*	%	7.21E-03	3.23E-03	8.39E-03	5.32E-03	

B. TRITIUM

	Units	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Est. Total Error %
1. Total Release	Ci	1.05E+01	1.05E+01	1.72E+01	1.54E+01	6.43E+00
2. Average diluted concentration during batch discharge for the period	uCi/ml	1.23E-04	1.54E-04	1.95E-04	1.82E-04	
3. % of ODCM Limit - MPC	%	4.10E+00	5.13E+00	6.50E+00	6.07E+00	

C. DISSOLVED AND ENTRAINED GASSES

	Units	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Est. Total Error %
1. Total release	Ci	1.42E-03	1.62E-04	1.35E-04	1.23E-04	2.11E+01
2. Average diluted concentration during batch discharge for the period	uCi/ml	1.66E-08	2.37E-09	1.53E-09	1.45E-09	
3. % of ODCM Limit - MPC	%	8.30E-03	1.19E-03	7.65E-04	7.24E-04	

D. GROSS ALPHA RADIOACTIVITY

	Units	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Est. Total Error %
1. Total release	Ci	<LLD	2.19E-05	<LLD	<LLD	2.30E+01
2. Average diluted concentration during batch discharge for the period	uCi/ml	<LLD	3.20E-10	<LLD	<LLD	

	Units	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Est. Total Error %
Volume of waste released (prior to dilution)	Liters	3.01E+06	3.75E+06	2.69E+06	2.55E+06	5.00E+00
Volume of dilution water used during period	Liters	8.56E+07	6.82E+07	8.82E+07	8.46E+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 2006

Nuclide Released	Batch Release				
	Units	Qtr 1	Qtr 2	Qtr 3	Qtr 4
SR-89	Ci	<LLD	<LLD	<LLD	<LLD
SR-90	Ci	<LLD	<LLD	<LLD	<LLD
CS-134	Ci	<LLD	<LLD	3.27E-06	<LLD
CS-137	Ci	4.98E-05	2.03E-05	1.35E-04	3.87E-05
I-131	Ci	1.68E-05	<LLD	<LLD	8.09E-07
CO-58	Ci	4.11E-05	1.19E-05	<LLD	2.88E-06
CO-60	Ci	4.11E-04	2.57E-04	2.03E-04	3.63E-04
FE-59	Ci	9.69E-05	2.16E-06	<LLD	<LLD
ZN-65	Ci	1.42E-05	2.88E-06	8.15E-06	7.21E-05
MN-54	Ci	4.24E-04	1.93E-04	7.28E-05	1.36E-04
CR-51	Ci	1.59E-04	7.68E-06	<LLD	<LLD
ZR-95	Ci	<LLD	<LLD	<LLD	<LLD
NB-95	Ci	<LLD	<LLD	<LLD	<LLD
MO-99	Ci	<LLD	<LLD	<LLD	<LLD
TC-99M	Ci	<LLD	<LLD	<LLD	<LLD
BA-140	Ci	<LLD	2.25E-06	<LLD	<LLD
LA-140	Ci	6.20E-06	<LLD	<LLD	<LLD
CE-141	Ci	<LLD	<LLD	8.09E-07	6.15E-07
AG-110M	Ci	<LLD	<LLD	<LLD	<LLD
FE-55	Ci	<LLD	<LLD	<LLD	<LLD
SB-125	Ci	1.63E-05	1.61E-05	5.99E-05	2.11E-05
SB-124	Ci	1.40E-06	9.95E-06	4.92E-06	<LLD
RB-86	Ci	5.59E-06	<LLD	<LLD	<LLD
ND-147	Ci	<LLD	9.30E-06	1.63E-05	4.07E-06
BA-139	Ci	<LLD	<LLD	7.23E-07	<LLD
BA-141	Ci	<LLD	<LLD	1.73E-06	<LLD
CE-143	Ci	<LLD	<LLD	1.18E-06	<LLD
CE-144	Ci	<LLD	<LLD	<LLD	2.90E-06
NA-24	Ci	<LLD	<LLD	5.44E-06	1.88E-05
RU-105	Ci	2.47E-06	<LLD	<LLD	<LLD
TC-101	Ci	<LLD	<LLD	2.98E-07	<LLD
Y-91M	Ci	<LLD	<LLD	4.20E-07	<LLD
Total for Period	Ci	1.24E-03	5.33E-04	5.13E-04	6.61E-04
AR-41	Ci	2.00E-06	<LLD	<LLD	<LLD
KR-85	Ci	1.62E-04	1.07E-04	<LLD	<LLD
XE-133M	Ci	5.90E-06	<LLD	<LLD	<LLD
XE-133	Ci	9.58E-04	3.77E-05	1.09E-04	1.02E-04
XE-135	Ci	2.97E-04	1.71E-05	2.59E-05	2.08E-05
Total for Period	Ci	1.42E-03	1.62E-04	1.35E-04	1.23E-04

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) 1/1/06 – 12/31/06

1. Type of Waste

Type of waste	Unit	2006	Estimated Error %
a. Spent resin, filters sludges, evaporator bottoms, etc	m ³	59.59	25%
	Ci	5.76E+02	
b. Dry compressible waste, contaminated equipment, etc.	m ³	51.02	25%
	Ci	6.89E+00	
c. Irradiated components, control rods, etc.	m ³	None	25%
	Ci	None	
d. Other (Describe)	m ³	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 Curies *	Percent Abundance	Waste Class B Curies *	Percent Abundance	Waste Class C Curies *	Percent Abundance
C-14	1.08E+00	0.61%	9.06E-02	0.02%		
Mn-54	5.96E+01	33.47%	1.80E+01	4.52%		
Fe-55	8.36E+00	4.69%	2.24E+02	56.28%		
Co-58	5.14E+00	2.88%	2.17E-01	0.05%		
Co-60	8.20E+01	46.05%	1.40E+02	35.17%		
Ni-63	3.97E+00	2.22%	3.93E+00	0.99%		
Zn-65	1.09E+01	6.11%	9.97E+00	2.50%		
Cs-137	3.01E+00	1.67%	1.21E+00	0.30%		
Cr-51	3.51E+00	1.96%	1.63E-01	0.04%		
Fe-59	5.45E-01	0.30%	3.05E-04	0.00%		
H-3	3.97E-02	0.02%	1.06E-02	0.00%		
Sr-89	0.00E+00	0.00%	2.54E-01	0.06%		
Sr-90	3.44E-02	0.01%	1.51E-01	0.03%		
Cs-134	2.59E-02	0.01%	1.76E-01	0.04%		
TOTALS	1.78E+02	100.00%	3.98E+02	100.00%		

* Activity is estimated

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

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

Isotope	Waste Class A Curies (estimated)	Percent Abundance	Waste Class B Curies (estimated)	Percent Abundance
Cr-51	1.02E+00	14.81%		
Mn-54	1.57E+00	22.79%		
Fe-55	1.49E+00	21.63%		
Co-58	2.67E-01	3.88%		
Co-60	1.99E+00	28.88%		
Fe-59	2.48E-01	3.60%		
Zn-65	3.04E-01	4.41%		
TOTALS	6.89E+00	100.00%		

Category C – Irradiated Components, Control Rods, etc.

None

3. Solid Waste (Disposition)

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

Comments:

15 Shipments were made from Limerick to Duratek for processing
 8 Shipments were made from Limerick to Alaron for processing
 9 Shipments were made from Limerick to Studsvik (THOR) for processing
 No solidifications were performed

Category A - 32 shipments Type A LSA
 Category A - 3 shipments > Type A LSA
 Category A - 1 shipments Type B
 Category B - 53 shipments Type A LSA
 Category C – No shipments made
 Category D - No shipments made

B. Irradiated Fuel Shipments (disposition)

Number of Shipments	Mode of Transportation	Destination
0	N/A	N/A

C. Changes to the Process Control Program

There were no revisions to procedure RW-AA-100, "Process Control Program For Radioactive Wastes".

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

Appendix C
Dose Calculations

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

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 (2.4035E+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	2.19E-03	All	762	SE	1.10E-02	20	mRad
Noble Gas	Beta – Air Dose	1.38E-03	All	762	SE	3.45E-03	40	mRad
Noble Gas	Total Body (Gamma)	1.45E-03	All	762	SE	1.45E-02	10	mrem
Noble Gas	Skin (Beta)	2.71E-03	All	762	SE	9.03E-03	30	mrem
Iodine, Particulate & Tritium	Thyroid	4.71E-03	Infant	762	SE	1.57E-02	30	mrem
Liquid	Total Body	2.16E-03	Child	Phila. Sub. Water		3.60E-02	6	mrem
Liquid	Liver	2.32E-03	Teen	LGS Outfall		1.16E-02	20	mrem

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

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.
- 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 x/Q, x/Q depleted and D/Q for the highest exposed sector for the railroad tracks (W), and the sectors enclosing Security Checkpoint, Frick's Lock and the Information Center available for occupancy were used.
- The maximum expected occupancy factor is 25% of a working year in all locations.

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

- 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 ⁽¹⁾	Beta Air Dose, MRAD ⁽²⁾	Iodine/Part/H3 Organ Dose, MREM ⁽³⁾
Frick's Lock	WSW	450	1.63E-04	1.03E-04	1.08E-04
Info. Center	ESE	884	2.47E-04	1.56E-04	2.08E-04
R.R. Tracks	W	225	8.31E-04	5.26E-04	4.82E-04
National Guard / Security Check Point	NNE	682	1.25E-04	7.94E-05	1.13E-04

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)

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

Appendix D
Meteorological Data

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, 2006

Limerick Nuclear Station

Period of Record: January - March 2006
 Stability Class - Extremely Unstable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 30 Feet

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

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

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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, 2006

Limerick Nuclear Station

Period of Record: January - March 2006
 Stability Class - Moderately Unstable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 30 Feet

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

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

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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, 2006

Limerick Nuclear Station

Period of Record: January - March 2006
 Stability Class - Slightly Unstable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 30 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	0	0	0	0
NNE	0	2	0	0	0	0	2
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	1	2	0	0	0	3
S	0	2	0	0	0	0	2
SSW	0	0	1	1	0	0	2
SW	0	2	1	0	0	0	3
WSW	0	4	2	2	0	0	8
W	0	2	2	0	0	0	4
WNW	0	0	9	10	2	0	21
NW	0	0	5	2	0	0	7
NNW	0	1	0	0	0	0	1
Variable	0	0	0	0	0	0	0
Total	0	14	22	15	2	0	53

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

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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, 2006

Limerick Nuclear Station

Period of Record: January - March 2006
 Stability Class - Neutral - 266Ft-26Ft Delta-T (F)
 Winds Measured at 30 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	3	21	12	0	0	0	36
NNE	4	15	2	0	0	0	21
NE	7	13	6	0	0	0	26
ENE	6	16	5	0	0	0	27
E	12	8	14	2	0	0	36
ESE	4	10	4	0	0	0	18
SE	4	13	3	0	0	0	20
SSE	3	13	4	0	0	0	20
S	4	15	7	0	0	0	26
SSW	2	16	5	3	0	0	26
SW	3	13	3	0	0	0	19
WSW	11	22	25	5	0	0	63
W	7	33	40	10	1	0	91
WNW	6	51	67	40	12	0	176
NW	3	50	158	139	53	10	413
NNW	0	17	42	6	3	0	68
Variable	0	0	0	0	0	0	0
Total	79	326	397	205	69	10	1086

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

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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, 2006

Limerick Nuclear Station
 Period of Record: January - March 2006
 Stability Class - Slightly Stable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 30 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	2	7	0	0	0	0	9
NNE	9	14	2	0	0	0	25
NE	9	2	4	0	0	0	15
ENE	8	8	6	0	0	0	22
E	11	14	16	1	0	0	42
ESE	9	12	3	0	0	0	24
SE	7	10	5	1	0	0	23
SSE	10	27	4	2	3	0	46
S	16	33	16	4	0	0	69
SSW	11	22	2	3	0	0	38
SW	19	14	1	2	0	0	36
WSW	30	19	10	0	0	0	59
W	27	48	13	3	0	0	91
WNW	25	64	8	1	0	0	98
NW	14	44	24	5	0	0	87
NNW	4	13	6	0	0	0	23
Variable	0	0	0	0	0	0	0
Total	211	351	120	22	3	0	707

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

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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, 2006

Limerick Nuclear Station

Period of Record: January - March 2006
 Stability Class - Moderately Stable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 30 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	3	0	0	0	0	0	3
NNE	4	1	0	0	0	0	5
NE	6	0	0	0	0	0	6
ENE	5	0	0	0	0	0	5
E	4	2	0	0	0	0	6
ESE	1	3	0	0	0	0	4
SE	4	3	0	0	0	0	7
SSE	2	0	0	0	0	0	2
S	2	2	0	0	0	0	4
SSW	3	4	0	0	0	0	7
SW	4	2	0	0	0	0	6
WSW	7	4	0	0	0	0	11
W	7	5	0	0	0	0	12
WNW	6	3	0	0	0	0	9
NW	7	2	0	0	0	0	9
NNW	1	1	0	0	0	0	2
Variable	0	0	0	0	0	0	0
Total	66	32	0	0	0	0	98

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

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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, 2006

Limerick Nuclear Station

Period of Record: January - March 2006
 Stability Class - Extremely Stable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 30 Feet

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

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

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Table D - 2 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, January - March, 2006

Limerick Nuclear Station

Period of Record: January - March 2006
 Stability Class - Extremely Unstable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 175 Feet

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

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 7.

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Table D - 2 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, January - March, 2006

Limerick Nuclear Station

Period of Record: January - March 2006
 Stability Class - Moderately Unstable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 175 Feet

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

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 7

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Table D - 2 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, January - March, 2006

Limerick Nuclear Station
 Period of Record: January - March 2006
 Stability Class - Slightly Unstable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 175 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	0	0	0	0
NNE	0	2	0	0	0	0	2
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	2	0	0	0	2
S	0	1	1	0	0	0	2
SSW	0	0	1	1	0	1	3
SW	0	1	3	2	0	0	6
WSW	0	0	2	0	2	1	5
W	0	0	5	2	0	1	8
WNW	0	0	2	10	6	3	21
NW	0	0	3	0	0	0	3
NNW	0	0	1	0	0	0	1
Variable	0	0	0	0	0	0	0
Total	0	4	20	15	8	6	53

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 7

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Table D - 2 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, January - March, 2006

Limerick Nuclear Station
 Period of Record: January - March 2006
 Stability Class - Neutral - 266Ft-26Ft Delta-T (F)
 Winds Measured at 175 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	12	13	2	0	0	27
NNE	1	15	11	4	0	0	31
NE	2	10	10	5	0	0	27
ENE	3	11	8	1	0	0	23
E	4	4	10	12	0	0	30
ESE	1	11	5	2	0	0	19
SE	3	11	5	2	0	0	21
SSE	1	10	7	2	0	0	20
S	1	14	16	5	0	0	36
SSW	1	2	17	4	2	1	27
SW	4	5	12	7	0	2	30
WSW	9	8	19	14	20	2	72
W	3	22	39	27	15	3	109
WNW	1	14	70	77	59	29	250
NW	2	13	68	81	66	41	271
NNW	1	12	39	33	7	5	97
Variable	0	0	0	0	0	0	0
Total	37	174	349	278	169	83	1090

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 5
 Hours of missing stability measurements in all stability classes: 7

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Table D - 2 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, January - March, 2006

Limerick Nuclear Station

Period of Record: January - March 2006
 Stability Class - Slightly Stable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 175 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	6	12	0	0	0	18
NNE	3	2	11	3	0	0	19
NE	5	5	2	4	0	0	16
ENE	10	7	7	0	0	0	24
E	1	8	11	11	1	0	32
ESE	3	9	8	6	0	0	26
SE	3	8	10	3	1	0	25
SSE	2	11	7	5	1	3	29
S	2	19	34	20	6	1	82
SSW	3	24	27	6	3	3	66
SW	3	18	10	7	0	0	38
WSW	3	26	19	15	1	0	64
W	1	24	43	10	5	0	83
WNW	3	23	65	10	2	0	103
NW	1	13	39	19	1	0	73
NNW	1	4	14	5	0	0	24
Variable	0	0	0	0	0	0	0
Total	44	207	319	124	21	7	722

Hours of calm in this stability class: 1
 Hours of missing wind measurements in this stability class: 13
 Hours of missing stability measurements in all stability classes: 7

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Table D - 2 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, January - March, 2006

Limerick Nuclear Station

Period of Record: January - March 2006
 Stability Class - Moderately Stable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 175 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	2	0	0	0	0	0	2
NNE	1	3	1	0	0	0	5
NE	3	1	0	0	0	0	4
ENE	4	3	0	0	0	0	7
E	1	4	1	0	0	0	6
ESE	1	1	0	1	0	0	3
SE	4	3	1	0	0	0	8
SSE	0	6	3	0	0	0	9
S	0	5	2	0	0	0	7
SSW	0	7	1	0	0	0	8
SW	2	7	3	0	0	0	12
WSW	2	4	7	1	0	0	14
W	4	6	6	0	0	0	16
WNW	3	8	12	2	0	0	25
NW	3	1	5	0	0	0	9
NNW	1	2	2	0	0	0	5
Variable	0	0	0	0	0	0	0
Total	31	61	44	4	0	0	140

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 13
 Hours of missing stability measurements in all stability classes: 7

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Table D. – 2 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, January – March, 2006

Limerick Nuclear Station

Period of Record: January – March 2006
 Stability Class - Extremely Stable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 175 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	2	0	0	0	0	0	2
NNE	3	0	0	0	0	0	3
NE	1	0	0	0	0	0	1
ENE	2	2	0	0	0	0	4
E	6	3	0	0	0	0	9
ESE	2	1	0	0	0	0	3
SE	3	2	0	0	0	0	5
SSE	1	3	0	0	0	0	4
S	1	2	0	0	0	0	3
SSW	4	2	1	0	0	0	7
SW	3	4	3	0	0	0	10
WSW	2	3	0	0	0	0	5
W	8	4	2	0	0	0	14
WNW	2	9	1	0	0	0	12
NW	2	0	0	0	0	0	2
NNW	3	1	0	0	0	0	4
Variable	0	0	0	0	0	0	0
Total	45	36	7	0	0	0	88

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 17
 Hours of missing stability measurements in all stability classes: 7

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Table D - 3 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, April - June, 2006

Limerick Nuclear Station
 Period of Record: April - June 2006
 Stability Class - Extremely Unstable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 30 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	1	0	0	0	0	1
SSW	0	5	0	0	0	0	5
SW	0	6	0	0	0	0	6
WSW	1	6	0	0	0	0	7
W	0	5	0	0	0	0	5
WNW	0	6	0	0	0	0	6
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	1	29	0	0	0	0	30

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

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

Table D - 3 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, April - June, 2006

Limerick Nuclear Station

Period of Record: April - June 2006
 Stability Class - Moderately Unstable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 30 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	0	0	0	0
NNE	0	2	0	0	0	0	2
NE	0	0	0	0	0	0	0
ENE	0	1	2	0	0	0	3
E	0	3	5	0	0	0	8
ESE	0	0	0	1	0	0	1
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	3	0	0	0	0	3
SSW	0	8	6	0	0	0	14
SW	0	3	0	0	0	0	3
WSW	2	3	1	0	0	0	6
W	1	6	1	0	0	0	8
WNW	0	4	2	1	0	0	7
NW	0	2	0	0	0	0	2
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	3	35	17	2	0	0	57

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

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

Table D - 3 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, April - June, 2006

Limerick Nuclear Station
 Period of Record: April - June 2006
 Stability Class - Slightly Unstable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 30 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	3	4	0	0	0	7
NNE	0	0	1	0	0	0	1
NE	0	0	0	0	0	0	0
ENE	1	6	2	0	0	0	9
E	0	7	5	1	0	0	13
ESE	1	2	0	2	0	0	5
SE	0	0	0	0	0	0	0
SSE	1	0	0	0	0	0	1
S	0	2	2	0	0	0	4
SSW	1	4	1	0	0	0	6
SW	1	1	2	0	0	0	4
WSW	1	6	0	0	0	0	7
W	1	9	5	0	0	0	15
WNW	0	6	4	5	0	0	15
NW	0	10	13	11	0	0	34
NNW	0	4	4	1	0	0	9
Variable	0	0	0	0	0	0	0
Total	7	60	43	20	0	0	130

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

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

Table D - 3 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, April - June, 2006

Limerick Nuclear Station
 Period of Record: April - June 2006
 Stability Class - Neutral - 266Ft-26Ft Delta-T (F)
 Winds Measured at 30 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	4	30	21	2	0	0	57
NNE	5	14	8	0	0	0	27
NE	7	18	2	0	0	0	27
ENE	5	35	16	0	0	0	56
E	4	20	34	14	0	0	72
ESE	3	5	6	5	0	0	19
SE	7	9	3	0	0	0	19
SSE	6	5	11	0	0	0	22
S	5	15	11	0	0	0	31
SSW	12	13	3	0	0	0	28
SW	12	9	3	0	0	0	24
WSW	11	26	3	0	0	0	40
W	9	33	6	2	0	0	50
WNW	14	39	43	11	1	0	108
NW	11	50	98	49	1	0	209
NNW	7	37	38	9	0	0	91
Variable	0	0	0	0	0	0	0
Total	122	358	306	92	2	0	880

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

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

Table D - 3 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, April - June, 2006

Limerick Nuclear Station
 Period of Record: April - June 2006
 Stability Class - Slightly Stable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 30 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	10	15	9	0	0	0	34
NNE	8	18	1	0	0	0	27
NE	9	4	1	0	0	0	14
ENE	12	16	1	0	0	0	29
E	13	28	13	3	0	0	57
ESE	4	15	1	0	0	0	20
SE	5	15	5	0	0	0	25
SSE	11	19	10	0	0	0	40
S	8	21	3	0	0	0	32
SSW	19	14	1	0	0	0	34
SW	32	10	1	0	0	0	43
WSW	37	11	0	0	0	0	48
W	40	9	0	0	0	0	49
WNW	42	37	8	1	0	0	88
NW	24	51	12	1	0	0	88
NNW	10	32	7	0	0	0	49
Variable	0	0	0	0	0	0	0
Total	284	315	73	5	0	0	677

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

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

Table D - 3 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, April - June, 2006

Limerick Nuclear Station
 Period of Record: April - June 2006
 Stability Class - Moderately Stable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 30 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	6	0	0	0	0	0	6
NNE	1	1	0	0	0	0	2
NE	5	0	0	0	0	0	5
ENE	2	0	0	0	0	0	2
E	8	1	0	0	0	0	9
ESE	4	1	0	0	0	0	5
SE	3	2	0	0	0	0	5
SSE	1	0	0	0	0	0	1
S	4	1	0	0	0	0	5
SSW	9	0	0	0	0	0	9
SW	13	0	0	0	0	0	13
WSW	8	0	0	0	0	0	8
W	11	2	0	0	0	0	13
WNW	34	12	0	0	0	0	46
NW	15	4	0	0	0	0	19
NNW	5	0	0	0	0	0	5
Variable	0	0	0	0	0	0	0
Total	129	24	0	0	0	0	153

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

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

Table D - 3 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, April - June, 2006

Limerick Nuclear Station

Period of Record: April - June 2006
 Stability Class - Extremely Stable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 30 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	5	0	0	0	0	0	5
NNE	4	0	0	0	0	0	4
NE	0	0	0	0	0	0	0
ENE	2	0	0	0	0	0	2
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	1	0	0	0	0	0	1
S	0	0	0	0	0	0	0
SSW	3	0	0	0	0	0	3
SW	2	0	0	0	0	0	2
WSW	5	0	0	0	0	0	5
W	12	0	0	0	0	0	12
WNW	20	2	0	0	0	0	22
NW	9	0	0	0	0	0	9
NNW	6	0	0	0	0	0	6
Variable	0	0	0	0	0	0	0
Total	69	2	0	0	0	0	71

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

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

Table D - 4 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, April - June, 2006

Limerick Nuclear Station
 Period of Record: April - June 2006
 Stability Class - Extremely Unstable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 175 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	1	0	0	0	1
SSW	0	0	6	0	0	0	6
SW	0	3	3	0	0	0	6
WSW	0	3	5	0	0	0	8
W	0	2	6	0	0	0	8
WNW	0	0	1	0	0	0	1
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	8	22	0	0	0	30

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

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

Table D - 4 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, April - June, 2006

Limerick Nuclear Station

Period of Record: April - June 2006
 Stability Class - Moderately Unstable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 175 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	0	0	0	0
NNE	0	0	2	0	0	0	2
NE	0	0	0	0	0	0	0
ENE	0	1	1	3	0	0	5
E	0	1	4	1	0	0	6
ESE	0	0	0	0	1	0	1
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	1	4	0	0	0	5
SSW	0	1	7	3	0	0	11
SW	0	0	5	1	0	0	6
WSW	0	3	2	2	0	0	7
W	0	2	4	1	0	1	8
WNW	0	3	2	0	0	0	5
NW	0	1	0	0	0	0	1
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	13	31	11	1	1	57

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

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

Table D - 4 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, April - June, 2006

Limerick Nuclear Station
 Period of Record: April - June 2006
 Stability Class - Slightly Unstable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 175 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	2	5	0	0	0	8
NNE	0	0	1	0	0	0	1
NE	1	1	0	0	0	0	2
ENE	0	3	6	1	0	0	10
E	0	4	3	3	1	0	11
ESE	0	0	0	0	2	0	2
SE	0	1	0	0	0	0	1
SSE	0	1	0	0	0	0	1
S	0	1	1	2	0	0	4
SSW	0	2	2	1	0	0	5
SW	1	1	2	1	0	0	5
WSW	0	3	6	1	0	0	10
W	2	3	7	3	1	0	16
WNW	0	3	9	12	8	0	32
NW	0	3	6	1	2	0	12
NNW	0	1	5	3	0	0	9
Variable	0	0	0	0	0	0	0
Total	5	29	53	28	14	0	129

Hours of calm in this stability class: 1
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 2

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

Table D - 4 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, April - June, 2006

Limerick Nuclear Station
 Period of Record: April - June 2006
 Stability Class - Neutral - 266Ft-26Ft Delta-T (F)
 Winds Measured at 175 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	20	34	8	1	0	64
NNE	4	11	12	2	0	0	29
NE	4	15	11	2	0	0	32
ENE	3	15	29	4	0	0	51
E	3	10	19	23	7	0	62
ESE	3	5	10	10	5	0	33
SE	3	6	5	2	0	0	16
SSE	2	4	4	10	2	0	22
S	5	12	10	9	0	0	36
SSW	6	8	10	6	0	0	30
SW	5	13	7	2	1	0	28
WSW	4	9	21	11	3	0	48
W	10	17	33	14	5	1	80
WNW	2	22	53	54	29	3	163
NW	5	20	33	38	9	1	106
NNW	2	18	34	20	6	0	80
Variable	0	0	0	0	0	0	0
Total	62	205	325	215	68	5	880

Hours of calm in this stability class: 2
 Hours of missing wind measurements in this stability class: 7
 Hours of missing stability measurements in all stability classes: 2

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

Table D - 4 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, April - June, 2006

Limerick Nuclear Station

Period of Record: April - June 2006
 Stability Class - Slightly Stable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 175 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	5	6	19	9	0	0	39
NNE	3	9	15	4	0	0	31
NE	7	8	6	0	0	0	21
ENE	1	9	13	0	0	0	23
E	8	10	23	12	3	0	56
ESE	2	11	9	2	0	0	24
SE	5	8	9	4	0	0	26
SSE	4	9	24	15	0	0	52
S	2	17	17	2	1	0	39
SSW	1	22	21	1	0	0	45
SW	1	20	17	1	0	0	39
WSW	2	22	21	0	0	0	45
W	6	31	12	2	0	0	51
WNW	4	29	42	14	1	0	90
NW	7	30	33	4	0	0	74
NNW	5	17	32	5	0	0	59
Variable	0	0	0	0	0	0	0
Total	63	258	313	75	5	0	714

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 8
 Hours of missing stability measurements in all stability classes: 2

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

Table D.- 4 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, April - June, 2006

Limerick Nuclear Station
 Period of Record: April - June 2006
 Stability Class - Moderately Stable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 175 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	7	0	0	0	0	7
NNE	2	2	2	0	0	0	6
NE	1	0	1	0	0	0	2
ENE	3	6	0	0	0	0	9
E	2	3	0	0	0	0	5
ESE	2	2	2	1	0	0	7
SE	3	5	1	0	0	0	9
SSE	2	4	3	0	0	0	9
S	3	4	3	0	0	0	10
SSW	3	6	1	0	0	0	10
SW	1	13	4	0	0	0	18
WSW	0	10	5	0	0	0	15
W	3	4	5	0	0	0	12
WNW	3	13	25	1	0	0	42
NW	4	14	7	0	0	0	25
NNW	3	9	4	0	0	0	16
Variable	0	0	0	0	0	0	0
Total	35	102	63	2	0	0	202

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 11
 Hours of missing stability measurements in all stability classes: 2

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

Table D - 4 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, April - June, 2006

Limerick Nuclear Station
 Period of Record: April - June 2006
 Stability Class - Extremely Stable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 175 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	2	4	2	0	0	0	8
NNE	1	6	2	0	0	0	9
NE	0	3	0	0	0	0	3
ENE	0	2	0	0	0	0	2
E	1	0	0	0	0	0	1
ESE	1	2	0	0	0	0	3
SE	2	0	0	0	0	0	2
SSE	2	1	0	0	0	0	3
S	2	2	0	0	0	0	4
SSW	2	2	1	0	0	0	5
SW	2	7	0	0	0	0	9
WSW	6	5	1	0	0	0	12
W	4	7	4	0	0	0	15
WNW	4	7	21	0	0	0	32
NW	5	4	4	0	0	0	13
NNW	1	4	1	0	0	0	6
Variable	0	0	0	0	0	0	0
Total	35	56	36	0	0	0	127

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 14
 Hours of missing stability measurements in all stability classes: 2

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

Table D - 5 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, July - September, 2006

Limerick Nuclear Station

Period of Record: July - September 2006
 Stability Class - Extremely Unstable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 30 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	5	0	0	0	0	5
NNE	0	3	2	0	0	0	5
NE	0	0	0	0	0	0	0
ENE	0	2	0	0	0	0	2
E	0	2	0	0	0	0	2
ESE	0	1	0	0	0	0	1
SE	1	1	0	0	0	0	2
SSE	0	1	0	0	0	0	1
S	0	2	1	0	0	0	3
SSW	0	20	1	0	0	0	21
SW	2	13	1	0	0	0	16
WSW	0	10	0	0	0	0	10
W	0	8	0	0	0	0	8
WNW	0	5	0	0	0	0	5
NW	0	4	1	0	0	0	5
NNW	0	2	0	0	0	0	2
Variable	0	0	0	0	0	0	0
Total	3	79	6	0	0	0	88

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

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

Table D - 5 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, July - September, 2006

Limerick Nuclear Station
 Period of Record: July - September 2006
 Stability Class - Moderately Unstable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 30 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	5	0	0	0	0	5
NNE	0	4	0	0	0	0	4
NE	0	2	0	0	0	0	2
ENE	0	1	1	0	0	0	2
E	0	2	0	0	0	0	2
ESE	0	2	0	0	0	0	2
SE	0	1	0	0	0	0	1
SSE	0	0	0	0	0	0	0
S	0	1	0	0	0	0	1
SSW	0	5	0	0	0	0	5
SW	4	12	1	0	0	0	17
WSW	1	12	0	0	0	0	13
W	0	9	0	0	0	0	9
WNW	1	1	1	0	0	0	3
NW	0	7	3	0	0	0	10
NNW	0	5	6	0	0	0	11
Variable	0	0	0	0	0	0	0
Total	6	69	12	0	0	0	87

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

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

Table D - 5 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, July - September, 2006

Limerick Nuclear Station
 Period of Record: July - September 2006
 Stability Class - Slightly Unstable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 30 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	5	1	0	0	0	6
NNE	0	5	1	0	0	0	6
NE	0	5	0	0	0	0	5
ENE	0	4	2	0	0	0	6
E	2	4	0	0	0	0	6
ESE	1	1	0	0	0	0	2
SE	1	0	1	0	0	0	2
SSE	0	0	0	0	0	0	0
S	2	1	0	0	0	0	3
SSW	0	7	3	0	0	0	10
SW	3	7	0	0	0	0	10
WSW	2	10	1	0	0	0	13
W	2	9	0	0	0	0	11
WNW	1	14	1	0	0	0	16
NW	0	12	10	3	0	0	25
NNW	0	6	1	0	0	0	7
Variable	0	0	0	0	0	0	0
Total	14	90	21	3	0	0	128

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

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

Table D - 5 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, July - September, 2006

Limerick Nuclear Station

Period of Record: July - September 2006
 Stability Class - Neutral - 266Ft-26Ft Delta-T (F)
 Winds Measured at 30 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	5	26	1	0	0	0	32
NNE	6	20	0	0	0	0	26
NE	9	34	0	0	0	0	43
ENE	7	36	8	1	0	0	52
E	7	14	8	1	0	0	30
ESE	4	7	1	0	0	0	12
SE	10	9	3	0	0	0	22
SSE	4	16	4	0	0	0	24
S	13	19	4	0	0	0	36
SSW	13	37	4	0	0	0	54
SW	13	26	1	0	0	0	40
WSW	14	36	1	0	0	0	51
W	20	17	0	0	0	0	37
WNW	19	33	5	0	0	0	57
NW	9	58	39	1	0	0	107
NNW	6	28	11	0	0	0	45
Variable	0	0	0	0	0	0	0
Total	159	416	90	3	0	0	668

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

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

Table D - 5 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, July - September, 2006

Limerick Nuclear Station
 Period of Record: July - September 2006
 Stability Class - Slightly Stable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 30 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	7	9	1	0	0	0	17
NNE	11	18	0	0	0	0	29
NE	17	15	3	2	0	0	37
ENE	18	11	5	4	0	0	38
E	13	13	6	0	0	0	32
ESE	4	6	1	0	0	0	11
SE	11	4	2	0	0	0	17
SSE	15	14	1	0	0	0	30
S	23	53	4	0	0	0	80
SSW	21	32	4	0	0	0	57
SW	33	4	0	0	0	0	37
WSW	36	10	0	0	0	0	46
W	39	9	2	0	0	0	50
WNW	47	24	0	0	0	0	71
NW	21	21	3	0	0	0	45
NNW	12	12	1	0	0	0	25
Variable	0	0	0	0	0	0	0
Total	328	255	33	6	0	0	622

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

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

Table D - 5 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, July - September, 2006

Limerick Nuclear Station

Period of Record: July - September 2006
 Stability Class - Moderately Stable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 30 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	4	0	0	0	0	0	4
NNE	5	2	0	0	0	0	7
NE	8	1	0	0	0	0	9
ENE	8	0	0	0	0	0	8
E	3	0	0	0	0	0	3
ESE	1	2	0	0	0	0	3
SE	2	3	0	0	0	0	5
SSE	1	1	0	0	0	0	2
S	3	3	0	0	0	0	6
SSW	9	1	0	0	0	0	10
SW	10	1	0	0	0	0	11
WSW	13	0	0	0	0	0	13
W	43	0	0	0	0	0	43
WNW	64	9	0	0	0	0	73
NW	31	2	0	0	0	0	33
NNW	15	0	0	0	0	0	15
Variable	0	0	0	0	0	0	0
Total	220	25	0	0	0	0	245

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

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

Table D - 5 Wind Speed by Direction Measured at 30 Feet for Various Stability Classes for the Limerick Generating Station, July - September, 2006

Limerick Nuclear Station
 Period of Record: July - September 2006
 Stability Class - Extremely Stable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 30 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	2	0	0	0	0	0	2
NNE	2	0	0	0	0	0	2
NE	1	0	0	0	0	0	1
ENE	1	1	0	0	0	0	2
E	1	0	0	0	0	0	1
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	3	0	0	0	0	0	3
WSW	5	0	0	0	0	0	5
W	12	0	0	0	0	0	12
WNW	19	0	0	0	0	0	19
NW	10	0	0	0	0	0	10
NNW	5	1	0	0	0	0	6
Variable	0	0	0	0	0	0	0
Total	61	2	0	0	0	0	63

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

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

Table D - 6 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, July - September, 2006

Limerick Nuclear Station
 Period of Record: July - September 2006
 Stability Class - Extremely Unstable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 175 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	4	1	0	0	0	5
NNE	0	2	2	0	0	0	4
NE	0	0	0	0	0	0	0
ENE	0	1	0	0	0	0	1
E	0	3	0	0	0	0	3
ESE	0	0	0	0	0	0	0
SE	0	1	0	0	0	0	1
SSE	0	2	0	0	0	0	2
S	0	1	4	0	0	0	5
SSW	0	8	12	1	0	0	21
SW	0	11	5	2	0	0	18
WSW	0	7	6	0	0	0	13
W	0	1	6	0	0	0	7
WNW	0	0	0	0	0	0	0
NW	0	3	2	0	0	0	5
NNW	0	3	0	0	0	0	3
Variable	0	0	0	0	0	0	0
Total	0	47	38	3	0	0	88

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 10

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

Table D - 6 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, July - September, 2006

Limerick Nuclear Station

Period of Record: July - September 2006
 Stability Class - Moderately Unstable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 175 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	5	1	0	0	0	6
NNE	0	2	2	0	0	0	4
NE	0	1	1	0	0	0	2
ENE	0	1	1	0	0	0	2
E	0	2	0	0	0	0	2
ESE	0	0	1	0	0	0	1
SE	0	1	0	0	0	0	1
SSE	0	1	0	0	0	0	1
S	1	0	2	0	0	0	3
SSW	0	4	6	0	0	0	10
SW	0	7	4	1	0	0	12
WSW	0	4	5	4	0	0	13
W	0	2	7	1	0	0	10
WNW	0	0	1	0	0	0	1
NW	0	2	9	0	0	0	11
NNW	0	2	5	1	0	0	8
Variable	0	0	0	0	0	0	0
Total	1	34	45	7	0	0	87

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 10

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

Table D - 6 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, July - September, 2006

Limerick Nuclear Station

Period of Record: July - September 2006
 Stability Class - Slightly Unstable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 175 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	3	3	0	0	0	6
NNE	0	5	2	0	0	0	7
NE	1	2	3	0	0	0	6
ENE	0	1	4	0	0	0	5
E	1	1	3	0	0	0	5
ESE	0	2	1	0	0	0	3
SE	1	0	0	0	0	0	1
SSE	1	0	0	1	0	0	2
S	0	1	0	0	0	0	1
SSW	0	1	6	4	0	0	11
SW	0	4	5	1	0	0	10
WSW	0	5	7	2	0	0	14
W	3	3	17	2	0	0	25
WNW	0	2	7	3	1	0	13
NW	0	4	6	1	1	0	12
NNW	0	3	3	2	0	0	8
Variable	0	0	0	0	0	0	0
Total	7	37	67	16	2	0	129

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 10

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

Table D - 6 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, July - September, 2006

Limerick Nuclear Station

Period of Record: July - September 2006
 Stability Class - Neutral - 266Ft-26Ft Delta-T (F)
 Winds Measured at 175 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	6	14	14	0	0	0	34
NNE	2	18	13	0	0	0	33
NE	8	24	18	0	0	0	50
ENE	8	14	27	2	1	0	52
E	2	4	14	4	0	0	24
ESE	5	2	6	0	0	0	13
SE	6	5	6	0	2	0	19
SSE	5	10	10	4	0	0	29
S	10	14	17	6	0	0	47
SSW	7	14	28	8	0	0	57
SW	6	12	20	8	0	0	46
WSW	6	12	26	5	1	0	50
W	13	17	19	7	0	0	56
WNW	6	21	38	13	0	0	78
NW	4	14	30	7	0	0	55
NNW	2	9	27	1	0	0	39
Variable	0	0	0	0	0	0	0
Total	96	204	313	65	4	0	682

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 1
 Hours of missing stability measurements in all stability classes: 10

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

Table D - 6 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, July - September, 2006

Limerick Nuclear Station

Period of Record: July - September 2006
 Stability Class - Slightly Stable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 175 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	7	7	7	2	0	0	23
NNE	9	12	12	0	0	0	33
NE	5	14	13	4	2	0	38
ENE	9	10	9	2	4	0	34
E	11	11	10	3	0	0	35
ESE	5	9	5	2	0	0	21
SE	5	9	8	0	2	0	24
SSE	5	13	8	3	0	0	29
S	9	28	54	4	0	0	95
SSW	4	22	37	11	0	0	74
SW	6	27	6	1	0	0	40
WSW	7	20	19	0	0	0	46
W	6	32	23	4	1	0	66
WNW	11	27	35	2	0	0	75
NW	1	12	8	1	0	0	22
NNW	8	25	5	1	0	0	39
Variable	0	0	0	0	0	0	0
Total	108	278	259	40	9	0	694

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 12
 Hours of missing stability measurements in all stability classes: 10

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

Table D - 6 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, July - September, 2006

Limerick Nuclear Station

Period of Record: July - September 2006
 Stability Class - Moderately Stable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 175 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	9	0	0	0	0	10
NNE	2	6	3	0	0	0	11
NE	4	2	0	0	0	0	6
ENE	5	3	0	0	0	0	8
E	1	7	2	0	0	0	10
ESE	2	1	1	0	0	0	4
SE	6	2	1	0	0	0	9
SSE	2	4	5	0	0	0	11
S	6	6	6	0	0	0	18
SSW	5	9	6	1	0	0	21
SW	7	6	2	0	0	0	15
WSW	9	11	2	0	0	0	22
W	8	25	10	1	0	0	44
WNW	15	54	33	0	0	0	102
NW	9	26	4	0	0	0	39
NNW	8	14	4	0	0	0	26
Variable	0	0	0	0	0	0	0
Total	90	185	79	2	0	0	356

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 15
 Hours of missing stability measurements in all stability classes: 10

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

Table D - 6 Wind Speed by Direction Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, July - September, 2006

Limerick Nuclear Station

Period of Record: July - September 2006
 Stability Class - Extremely Stable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 175 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	3	0	0	0	0	3
NNE	3	1	0	0	0	0	4
NE	1	2	0	0	0	0	3
ENE	3	0	0	0	0	0	3
E	1	0	1	0	0	0	2
ESE	1	0	0	0	0	0	1
SE	2	0	0	0	0	0	2
SSE	0	1	0	0	0	0	1
S	3	1	1	0	0	0	5
SSW	0	1	0	0	0	0	1
SW	3	1	0	0	0	0	4
WSW	6	2	0	0	0	0	8
W	4	11	2	0	0	0	17
WNW	2	38	16	0	0	0	56
NW	4	6	1	0	0	0	11
NNW	2	2	0	1	0	0	5
Variable	0	0	0	0	0	0	0
Total	35	69	21	1	0	0	126

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 8
 Hours of missing stability measurements in all stability classes: 10

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, October - December, 2006

Limerick Nuclear Station

Period of Record: October - December 2006
 Stability Class - Extremely Unstable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 30 Feet

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

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

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, October - December, 2006

Limerick Nuclear Station

Period of Record: October - December 2006
 Stability Class - Moderately Unstable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 30 Feet

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

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

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, October - December, 2006

Limerick Nuclear Station
 Period of Record: October - December 2006
 Stability Class - Slightly Unstable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 30 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	0	0	0	0
NNE	0	1	1	0	0	0	2
NE	0	0	0	0	0	0	0
ENE	0	1	0	0	0	0	1
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	1	1	0	0	0	0	2
SSE	0	0	0	0	0	0	0
S	0	2	3	0	0	0	5
SSW	0	7	2	0	0	0	9
SW	0	3	0	0	0	0	3
WSW	0	3	2	0	0	0	5
W	0	7	6	1	0	0	14
WNW	0	0	5	1	0	0	6
NW	0	1	3	0	0	0	4
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	1	26	22	2	0	0	51

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

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, October - December, 2006

Limerick Nuclear Station
 Period of Record: October - December 2006
 Stability Class - Neutral - 266Ft-26Ft Delta-T (F)
 Winds Measured at 30 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	7	11	12	1	0	0	31
NNE	13	15	26	0	0	0	54
NE	11	13	16	0	0	0	40
ENE	6	22	1	0	0	0	29
E	5	22	28	0	0	0	55
ESE	8	13	4	0	0	0	25
SE	3	5	2	1	0	0	11
SSE	3	7	0	0	0	0	10
S	10	19	8	2	1	0	40
SSW	9	22	11	0	0	0	42
SW	8	9	0	0	0	0	17
WSW	9	12	4	0	0	0	25
W	13	25	18	10	0	0	66
WNW	9	46	84	15	1	0	155
NW	7	41	107	68	13	0	236
NNW	1	10	21	0	0	0	32
Variable	0	0	0	0	0	0	0
Total	122	292	342	97	15	0	868

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

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, October - December, 2006

Limerick Nuclear Station
 Period of Record: October - December 2006
 Stability Class - Slightly Stable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 30 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	6	7	2	0	0	0	15
NNE	9	19	15	0	0	0	43
NE	16	13	7	0	0	0	36
ENE	18	22	4	0	0	0	44
E	8	18	12	0	0	0	38
ESE	9	8	6	1	0	0	24
SE	5	13	0	2	0	0	20
SSE	5	19	4	3	3	0	34
S	14	26	9	4	0	0	53
SSW	20	27	10	0	2	0	59
SW	29	6	0	0	0	0	35
WSW	26	9	5	2	0	0	42
W	30	62	6	3	0	0	101
WNW	34	67	18	1	1	0	121
NW	12	30	17	0	0	0	59
NNW	12	7	4	0	0	0	23
Variable	0	0	0	0	0	0	0
Total	253	353	119	16	6	0	747

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

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, October - December, 2006

Limerick Nuclear Station

Period of Record: October - December 2006
 Stability Class - Moderately Stable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 30 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	5	0	0	0	0	0	5
NNE	6	2	0	0	0	0	8
NE	6	0	0	0	0	0	6
ENE	6	1	0	0	0	0	7
E	6	0	0	0	0	0	6
ESE	3	0	0	0	0	0	3
SE	0	0	0	0	0	0	0
SSE	5	0	0	0	0	0	5
S	6	3	0	0	0	0	9
SSW	8	1	0	0	0	0	9
SW	9	1	0	0	0	0	10
WSW	16	0	0	0	0	0	16
W	31	7	0	0	0	0	38
WNW	32	7	2	0	0	0	41
NW	16	1	0	0	0	0	17
NNW	5	0	0	0	0	0	5
Variable	0	0	0	0	0	0	0
Total	160	23	2	0	0	0	185

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

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, October - December, 2006

Limerick Nuclear Station
 Period of Record: October - December 2006
 Stability Class - Extremely Stable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 30 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	2	0	0	0	0	0	2
NNE	1	0	0	0	0	0	1
NE	0	0	0	0	0	0	0
ENE	1	0	0	0	0	0	1
E	3	0	0	0	0	0	3
ESE	0	0	0	0	0	0	0
SE	1	0	0	0	0	0	1
SSE	0	0	0	0	0	0	0
S	1	0	0	0	0	0	1
SSW	2	0	0	0	0	0	2
SW	0	0	0	0	0	0	0
WSW	3	0	0	0	0	0	3
W	14	0	0	0	0	0	14
WNW	30	0	0	0	0	0	30
NW	23	0	0	0	0	0	23
NNW	6	0	0	0	0	0	6
Variable	0	0	0	0	0	0	0
Total	87	0	0	0	0	0	87

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

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, October - December, 2006

Limerick Nuclear Station

Period of Record: October - December 2006
 Stability Class - Extremely Unstable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 175 Feet

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

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

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, October - December, 2006

Limerick Nuclear Station

Period of Record: October - December 2006
 Stability Class - Moderately Unstable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 175 Feet

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

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

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, October - December, 2006

Limerick Nuclear Station
 Period of Record: October - December 2006
 Stability Class - Slightly Unstable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 175 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	1	0	0	0	1
NNE	0	1	0	0	0	0	1
NE	0	1	0	0	0	0	1
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	1	1	0	0	0	0	2
S	0	0	2	1	0	0	3
SSW	0	5	5	1	2	0	13
SW	0	1	1	1	0	0	3
WSW	0	4	1	2	1	0	8
W	0	0	4	6	0	2	12
WNW	0	0	4	3	0	0	7
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	1	13	18	14	3	2	51

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

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, October - December, 2006

Limerick Nuclear Station
 Period of Record: October - December 2006
 Stability Class - Neutral - 266Ft-26Ft Delta-T (F)
 Winds Measured at 175 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	3	0	16	5	0	0	24
NNE	3	7	28	16	0	0	54
NE	11	6	21	5	0	0	43
ENE	8	14	7	0	0	0	29
E	3	15	27	5	0	0	50
ESE	0	6	14	8	0	0	28
SE	7	8	4	1	3	0	23
SSE	3	3	4	0	0	0	10
S	6	14	18	5	1	0	44
SSW	5	13	20	10	4	2	54
SW	7	9	3	1	0	0	20
WSW	4	8	9	3	5	0	29
W	6	16	33	29	8	5	97
WNW	4	14	53	96	28	6	201
NW	0	11	40	41	28	8	128
NNW	2	11	26	6	0	0	45
Variable	0	0	0	0	0	0	0
Total	72	155	323	231	77	21	879

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

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, October - December, 2006

Limerick Nuclear Station
 Period of Record: October - December 2006
 Stability Class - Slightly Stable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 175 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	2	2	10	1	0	0	15
NNE	1	5	20	7	0	0	33
NE	4	10	16	8	0	0	38
ENE	3	16	12	1	0	0	32
E	4	14	20	10	0	0	48
ESE	4	8	15	12	0	0	39
SE	3	5	5	1	0	0	14
SSE	1	10	14	5	4	5	39
S	3	13	24	10	4	2	56
SSW	4	22	26	16	1	2	71
SW	5	15	13	2	0	0	35
WSW	7	19	15	2	7	3	53
W	2	22	50	17	0	3	94
WNW	8	19	80	23	1	0	131
NW	2	15	24	9	0	0	50
NNW	1	7	11	2	0	0	21
Variable	0	0	0	0	0	0	0
Total	54	202	355	126	17	15	769

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 10
 Hours of missing stability measurements in all stability classes: 2

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, October – December, 2006

Limerick Nuclear Station
 Period of Record: October – December 2006
 Stability Class – Moderately Stable – 266Ft-26Ft Delta-T (F)
 Winds Measured at 175 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	4	2	0	0	0	7
NNE	1	3	2	0	0	0	6
NE	4	2	0	0	0	0	6
ENE	6	5	1	0	0	0	12
E	1	3	3	0	0	0	7
ESE	4	0	0	0	0	0	4
SE	3	2	0	0	0	0	5
SSE	2	4	0	0	0	0	6
S	1	6	3	1	0	0	11
SSW	2	3	7	1	0	0	13
SW	4	15	7	0	0	0	26
WSW	4	11	7	0	0	0	22
W	3	16	18	1	0	0	38
WNW	7	24	22	3	0	0	56
NW	5	9	1	3	0	0	18
NNW	1	5	1	0	0	0	7
Variable	0	0	0	0	0	0	0
Total	49	112	74	9	0	0	244

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 19
 Hours of missing stability measurements in all stability classes: 2

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, October - December, 2006

Limerick Nuclear Station

Period of Record: October - December 2006
 Stability Class - Extremely Stable - 266Ft-26Ft Delta-T (F)
 Winds Measured at 175 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	7	3	0	0	0	0	10
NNE	6	4	0	0	0	0	10
NE	1	0	0	0	0	0	1
ENE	0	0	0	0	0	0	0
E	3	2	1	0	0	0	6
ESE	4	0	0	0	0	0	4
SE	2	0	0	0	0	0	2
SSE	2	3	0	0	0	0	5
S	1	2	0	0	0	0	3
SSW	4	9	0	0	0	0	13
SW	5	5	1	0	0	0	11
WSW	8	16	2	0	0	0	26
W	3	23	2	0	0	0	28
WNW	9	33	3	0	0	0	45
NW	11	15	0	0	0	0	26
NNW	7	2	0	0	0	0	9
Variable	0	0	0	0	0	0	0
Total	73	117	9	0	0	0	199

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 17
 Hours of missing stability measurements in all stability classes: 2

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

Table D - 10 Wind Speed Measured at 175 Feet for Various Stability Classes for the Limerick Generating Station, January - December, 2006

Limerick Nuclear Station																	January-December, 2006								
175 ft. Wind Speed and Direction																	171Ft-26Ft Delta-T (F)								
SPEED CLASS	WIND DIRECTION CLASSES																STABILITY CLASSES								
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	EU	MU	SU	N	SS	MS	ES	TOTAL
EU	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1 MU	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.00	0.00	0.01
9 SU	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
- N	0.01	0.00	0.00	0.00	0.09	0.09	0.02	0.02	0.01	0.08	0.01	0.32	0.29	1.46	1.21	0.15	3.78								3.78
2 SS	0.00	0.00	0.02	0.06	0.05	0.00	0.07	0.06	0.13	0.07	0.00	0.16	0.12	0.12	0.05	0.00	0.90							0.90	
4 MS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00	
ES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00	
																									4.72
EU	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G MU	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T SU	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00				0.00	
N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.04	0.15	0.47	0.59	0.06	1.34							1.34	
2 SS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.04	0.08	0.00	0.04	0.04	0.02	0.00	0.00	0.30							0.30	
4 MS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00	
ES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00	
																									1.64
TOT	3.69	3.94	3.49	3.93	4.79	2.80	2.51	3.37	6.12	6.92	5.30	7.19	10.71	18.02	11.27	5.95	100.00	0.05	0.35	1.39	40.28	44.19	10.64	3.09	100.00

Wind Direction by Stability

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	-STABILITY CLASSES-
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.02	0.01	0.00	0.00	0.00	0.05	Extremely Unstable
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.07	0.08	0.12	0.05	0.01	0.00	0.00	0.35	Moderately Unstable
0.05	0.04	0.00	0.00	0.01	0.00	0.00	0.02	0.08	0.35	0.32	0.25	0.18	0.02	0.05	0.04	1.39	Slightly Unstable
1.70	1.25	1.21	1.59	1.75	0.91	0.75	0.70	1.75	2.14	1.72	2.72	4.30	8.27	6.60	2.92	40.28	Neutral
1.44	2.13	2.00	1.93	2.60	1.59	1.39	2.18	3.68	3.51	2.18	2.87	4.35	6.62	3.42	2.28	44.19	Slightly Stable
0.36	0.30	0.22	0.33	0.32	0.22	0.28	0.36	0.46	0.66	0.79	0.83	1.37	2.51	1.01	0.62	10.64	Moderately Stable
0.14	0.21	0.06	0.07	0.12	0.07	0.08	0.11	0.13	0.18	0.21	0.39	0.46	0.59	0.20	0.09	3.09	Extremely Stable

Wind Direction by Wind Speed

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	-WIND SPEED CLASSES-
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.02	C A L M
0.46	0.52	0.74	0.81	0.61	0.47	0.71	0.42	0.64	0.60	0.76	0.91	1.04	0.98	0.73	0.56	10.97	< 3.5 mph
1.30	1.36	1.25	1.43	1.28	0.82	0.90	1.18	1.92	2.20	2.41	2.52	3.39	4.23	2.51	1.76	30.46	3.6 - 7.5 mph
1.61	1.64	1.17	1.46	1.78	0.90	0.64	1.07	2.60	2.96	1.62	2.47	4.18	6.94	3.78	2.48	37.32	7.6 - 12.5 mph
0.32	0.42	0.30	0.16	0.98	0.52	0.15	0.53	0.77	0.89	0.46	0.74	1.50	3.78	2.40	0.94	14.87	12.6 - 18.5 mph
0.01	0.00	0.02	0.06	0.14	0.09	0.09	0.08	0.14	0.16	0.02	0.48	0.41	1.58	1.27	0.15	4.72	18.6 - 24.5 mph
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.04	0.09	0.02	0.07	0.19	0.49	0.59	0.06	1.64	> 24.5 mph

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

Table D – 11 Annual X/Q, X/Q depleted and D/Q values for the North Stack, Limerick Generating Station, 2006

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

Stack ID	North Stack - Flow = 251200 cfm			X/Q (s/m ³)	X/Q (s/m ²)	D/Q (1/m ²)
	Location	Direction	Range (m)	Undepleted No Decay	Depleted 8.05d Decay	
N	Site Boundary	N	884	2.36E-07	2.14E-07	2.29E-09
N	Inhalation	N	965	2.09E-07	1.89E-07	2.01E-09
N	Vegetation	N	2574	7.57E-08	6.78E-08	5.01E-10
N	Meat	N	3414	6.54E-08	5.93E-08	3.33E-10
N	Cow	N	7562	4.03E-08	3.70E-08	9.48E-11
N	Nat'l Guard Stat	NNE	682	3.02E-07	2.80E-07	3.69E-09
N	Site Boundary	NNE	793	2.45E-07	2.26E-07	3.01E-09
N	Inhalation	NNE	805	2.40E-07	2.21E-07	2.95E-09
N	Vegetation	NNE	805	2.40E-07	2.21E-07	2.95E-09
N	Meat	NNE	1585	9.97E-08	8.91E-08	1.20E-09
N	Site Boundary	NE	793	1.17E-07	1.08E-07	1.71E-09
N	Meat	NE	1097	7.63E-08	6.97E-08	1.16E-09
N	Inhalation	NE	1287	6.25E-08	5.68E-08	9.56E-10
N	Vegetation	NE	2414	4.33E-08	4.00E-08	4.07E-10
N	Site Boundary	ENE	793	2.23E-07	2.05E-07	2.90E-09
N	Inhalation	ENE	965	1.72E-07	1.57E-07	2.24E-09
N	Vegetation	ENE	2896	6.84E-08	6.28E-08	5.02E-10
N	Meat	ENE	3871	6.37E-08	5.94E-08	3.39E-10
N	Site Boundary	E	762	4.05E-07	3.72E-07	4.81E-09
N	Inhalation	E	965	2.95E-07	2.68E-07	3.44E-09
N	Vegetation	E	1770	1.42E-07	1.26E-07	1.49E-09
N	Meat	E	1890	1.34E-07	1.19E-07	1.35E-09
N	Site Boundary	ESE	762	8.23E-07	7.55E-07	1.00E-08
N	Inhalation	ESE	805	7.62E-07	6.97E-07	9.23E-09
N	Info Center	ESE	884	6.69E-07	6.08E-07	8.01E-09
N	Cow	ESE	1770	2.71E-07	2.40E-07	2.88E-09
N	Goat	ESE	1770	2.71E-07	2.40E-07	2.88E-09
N	Vegetation	ESE	1931	2.47E-07	2.19E-07	2.53E-09
N	Meat	ESE	4511	1.35E-07	1.22E-07	6.95E-10
N	Site Boundary	SE	762	1.45E-06	1.33E-06	2.11E-08
N	Inhalation	SE	1609	5.18E-07	4.58E-07	6.63E-09
N	Vegetation	SE	1770	4.58E-07	4.04E-07	5.70E-09
N	Meat	SE	7241	1.01E-07	8.72E-08	5.78E-10
N	Site Boundary	SSE	1006	2.39E-07	2.16E-07	2.75E-09
N	Inhalation	SSE	1609	1.30E-07	1.15E-07	1.41E-09
N	Vegetation	SSE	1931	1.06E-07	9.40E-08	1.08E-09
N	Meat	SSE	7224	3.48E-08	3.12E-08	1.42E-10
N	Cow	SSE	7562	3.34E-08	2.99E-08	1.31E-10
N	RR Tracks	S	300	8.27E-07	7.92E-07	7.96E-09

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

Table D – 11 Annual X/Q, X/Q depleted and D/Q values for the North Stack, Limerick Generating Station, 2006

Limerick Generating Station						
X/Q, X/Q depleted and D/Q values						
Stack ID	North Stack – Flow = 251200 cfm			X/Q (s/m ³)	X/Q (s/m ²)	D/Q (1/m ²)
	Location	Direction	Range (m)	Undepleted	Depleted	
				No Decay	8.05d Decay	
N	Site Boundary	S	762	1.93E-07	1.77E-07	2.12E-09
N	Inhalation	S	1287	9.53E-08	8.53E-08	1.04E-09
N	Vegetation	S	1931	6.06E-08	5.39E-08	6.18E-10
N	Meat	S	3018	4.30E-08	3.87E-08	3.37E-10
N	Cow	S	3701	3.77E-08	3.40E-08	2.54E-10
N	RR Tracks	SSW	225	1.49E-06	1.44E-06	1.13E-08
N	Site Boundary	SSW	762	1.99E-07	1.83E-07	2.03E-09
N	Meat	SSW	1433	8.65E-08	7.71E-08	8.69E-10
N	Inhalation	SSW	1609	7.58E-08	6.75E-08	7.46E-10
N	Vegetation	SSW	2253	5.61E-08	5.00E-08	4.68E-10
N	Cow	SSW	2896	4.79E-08	4.30E-08	3.28E-10
N	RR Tracks	SW	225	1.09E-06	1.05E-06	8.28E-09
N	Site Boundary	SW	884	1.20E-07	1.09E-07	1.16E-09
N	Inhalation	SW	965	1.07E-07	9.64E-08	1.03E-09
N	Vegetation	SW	965	1.07E-07	9.64E-08	1.03E-09
N	Meat	SW	2835	4.00E-08	3.63E-08	2.85E-10
N	Cow	SW	4827	3.30E-08	3.06E-08	1.40E-10
N	Site Boundary	WSW	854	1.81E-07	1.65E-07	1.85E-09
N	Inhalation	WSW	1287	1.05E-07	9.38E-08	1.08E-09
N	Vegetation	WSW	1287	1.05E-07	9.38E-08	1.08E-09
N	Meat	WSW	2134	6.43E-08	5.76E-08	5.73E-10
N	Cow	WSW	4505	4.45E-08	4.09E-08	2.07E-10
N	RR Tracks	W	225	2.61E-06	2.52E-06	2.42E-08
N	Site Boundary	W	854	3.01E-07	2.74E-07	3.48E-09
N	Inhalation	W	965	2.55E-07	2.31E-07	2.90E-09
N	Vegetation	W	3540	6.42E-08	5.72E-08	4.24E-10
N	Meat	W	4084	5.77E-08	5.16E-08	3.40E-10
N	RR Tracks	WNW	345	4.09E-07	3.90E-07	3.83E-09
N	Site Boundary	WNW	793	1.10E-07	1.00E-07	1.15E-09
N	Inhalation	WNW	1126	6.80E-08	6.10E-08	7.00E-10
N	Vegetation	WNW	1126	6.80E-08	6.10E-08	7.00E-10
N	RR Tracks	WSW	345	7.24E-07	6.90E-07	6.69E-09
N	Fricks Lock	WSW	450	4.56E-07	4.30E-07	4.62E-09
N	RR Tracks	NW	450	2.47E-07	2.33E-07	2.20E-09
N	Site Boundary	NW	762	1.10E-07	1.01E-07	1.02E-09
N	Inhalation	NW	2092	3.34E-08	2.97E-08	2.73E-10
N	Vegetation	NW	2574	2.97E-08	2.67E-08	2.07E-10
N	Meat	NW	6660	1.89E-08	1.74E-08	5.23E-11
N	Site Boundary	NNW	884	1.36E-07	1.23E-07	1.29E-09
N	Inhalation	NNW	1448	7.11E-08	6.31E-08	6.41E-10
N	Vegetation	NNW	1931	5.34E-08	4.73E-08	4.24E-10
N	Meat	NNW	6325	2.76E-08	2.54E-08	7.12E-11

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

Table D – 12 Annual X/Q, X/Q depleted and D/Q values for the South Stack, Limerick Generating Station, 2006

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 ³)		D/Q (1/m ²)
				Undepleted No Decay	Depleted 8.05d Decay	
S	Site Boundary	N	884	9.38E-08	8.58E-08	1.09E-09
S	Inhalation	N	965	8.41E-08	7.65E-08	9.82E-10
S	Vegetation	N	2574	4.63E-08	4.31E-08	3.33E-10
S	Meat	N	3414	4.68E-08	4.41E-08	2.37E-10
S	Cow	N	7562	3.55E-08	3.38E-08	7.44E-11
S	Nat'l Guard Stat	NNE	682	1.35E-07	1.26E-07	2.15E-09
S	Site Boundary	NNE	793	1.12E-07	1.04E-07	1.83E-09
S	Inhalation	NNE	805	1.10E-07	1.02E-07	1.80E-09
S	Vegetation	NNE	805	1.10E-07	1.02E-07	1.80E-09
S	Meat	NNE	1585	5.21E-08	4.76E-08	8.77E-10
S	Site Boundary	NE	793	6.02E-08	5.66E-08	1.23E-09
S	Meat	NE	1097	4.18E-08	3.89E-08	8.98E-10
S	Inhalation	NE	1287	3.54E-08	3.28E-08	7.67E-10
S	Vegetation	NE	2414	3.15E-08	2.98E-08	3.51E-10
S	Site Boundary	ENE	793	9.87E-08	9.18E-08	1.75E-09
S	Inhalation	ENE	965	7.96E-08	7.37E-08	1.43E-09
S	Vegetation	ENE	2896	5.04E-08	4.78E-08	4.08E-10
S	Meat	ENE	3871	5.20E-08	4.98E-08	2.90E-10
S	Site Boundary	E	762	1.66E-07	1.53E-07	2.50E-09
S	Inhalation	E	965	1.26E-07	1.15E-07	1.91E-09
S	Vegetation	E	1770	7.48E-08	6.85E-08	1.01E-09
S	Meat	E	1890	7.33E-08	6.73E-08	9.34E-10
S	Site Boundary	ESE	762	3.22E-07	2.96E-07	4.72E-09
S	Inhalation	ESE	805	3.00E-07	2.75E-07	4.40E-09
S	Info Center	ESE	884	2.66E-07	2.43E-07	3.90E-09
S	Cow	ESE	1770	1.35E-07	1.23E-07	1.82E-09
S	Goat	ESE	1770	1.35E-07	1.23E-07	1.82E-09
S	Vegetation	ESE	1931	1.30E-07	1.19E-07	1.64E-09
S	Meat	ESE	4511	1.08E-07	1.02E-07	5.59E-10
S	Site Boundary	SE	762	5.88E-07	5.40E-07	1.02E-08
S	Inhalation	SE	1609	2.55E-07	2.31E-07	4.03E-09
S	Vegetation	SE	1770	2.36E-07	2.14E-07	3.57E-09
S	Meat	SE	7241	8.80E-08	8.05E-08	4.98E-10
S	Site Boundary	SSE	1006	9.06E-08	8.24E-08	1.28E-09
S	Inhalation	SSE	1609	5.87E-08	5.35E-08	8.38E-10
S	Vegetation	SSE	1931	5.37E-08	4.93E-08	6.84E-10
S	Meat	SSE	7224	3.06E-08	2.86E-08	1.22E-10
S	Cow	SSE	7562	2.95E-08	2.76E-08	1.13E-10

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

Table D – 12 Annual X/Q, X/Q depleted and D/Q values for the South Stack, Limerick Generating Station, 2006

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 ³)	X/Q (s/m ²)	D/Q (1/m ²)
				Undepleted No Decay	Depleted 8.05d Decay	
S	RR Tracks	S	300	2.99E-07	2.86E-07	2.89E-09
S	Site Boundary	S	762	7.30E-08	6.74E-08	9.63E-10
S	Inhalation	S	1287	4.00E-08	3.63E-08	5.98E-10
S	Vegetation	S	1931	3.15E-08	2.89E-08	4.24E-10
S	Meat	S	3018	2.94E-08	2.76E-08	2.62E-10
S	Cow	S	3701	2.82E-08	2.66E-08	2.07E-10
S	RR Tracks	SSW	225	5.43E-07	5.24E-07	3.94E-09
S	Site Boundary	SSW	762	7.63E-08	7.04E-08	9.27E-10
S	Meat	SSW	1433	3.75E-08	3.40E-08	5.22E-10
S	Inhalation	SSW	1609	3.47E-08	3.15E-08	4.69E-10
S	Vegetation	SSW	2253	3.17E-08	2.93E-08	3.25E-10
S	Cow	SSW	2896	3.16E-08	2.96E-08	2.42E-10
S	RR Tracks	SW	225	4.05E-07	3.91E-07	2.94E-09
S	Site Boundary	SW	884	4.59E-08	4.18E-08	5.20E-10
S	Inhalation	SW	965	4.11E-08	3.73E-08	4.81E-10
S	Vegetation	SW	965	4.11E-08	3.73E-08	4.81E-10
S	Meat	SW	2835	2.68E-08	2.52E-08	2.18E-10
S	Cow	SW	4827	2.73E-08	2.61E-08	1.18E-10
S	RR Tracks	WSW	345	2.76E-07	2.63E-07	2.61E-09
S	Fricks Lock	WSW	450	1.75E-07	1.65E-07	1.93E-09
S	Site Boundary	WSW	854	7.22E-08	6.61E-08	9.11E-10
S	Inhalation	WSW	1287	4.53E-08	4.10E-08	6.41E-10
S	Vegetation	WSW	1287	4.53E-08	4.10E-08	6.41E-10
S	Meat	WSW	2134	3.64E-08	3.37E-08	4.09E-10
S	Cow	WSW	4505	3.62E-08	3.45E-08	1.73E-10
S	RR Tracks	W	225	8.94E-07	8.64E-07	8.26E-09
S	Site Boundary	W	854	1.09E-07	9.95E-08	1.50E-09
S	Inhalation	W	965	9.38E-08	8.55E-08	1.30E-09
S	Vegetation	W	3540	4.52E-08	4.23E-08	3.04E-10
S	Meat	W	4084	4.31E-08	4.05E-08	2.52E-10
S	RR Tracks	WNW	345	1.57E-07	1.50E-07	1.54E-09
S	Site Boundary	WNW	793	4.36E-08	4.00E-08	5.47E-10
S	Inhalation	WNW	1126	2.80E-08	2.54E-08	3.75E-10
S	Vegetation	WNW	1126	2.80E-08	2.54E-08	3.75E-10
S	RR Tracks	NW	450	9.51E-08	8.96E-08	8.75E-10
S	Site Boundary	NW	762	4.28E-08	3.93E-08	4.46E-10
S	Inhalation	NW	2092	1.75E-08	1.61E-08	1.80E-10
S	Vegetation	NW	2574	1.81E-08	1.68E-08	1.45E-10
S	Meat	NW	6660	1.63E-08	1.55E-08	4.28E-11
S	Site Boundary	NNW	884	5.50E-08	5.00E-08	6.11E-10
S	Inhalation	NNW	1448	3.10E-08	2.78E-08	3.60E-10
S	Vegetation	NNW	1931	2.70E-08	2.45E-08	2.59E-10
S	Meat	NNW	6325	2.38E-08	2.27E-08	5.49E-11

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

Appendix E
Corrections to Previous Submittals

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

An error in Tables 1 and 8 of the 2005 Annual Radioactive Release Report in reporting activity for I-131, gross alpha and tritium when no activity was found. The values reported were 0.00E+00 when in fact they should have been reported as < LLD. This error had no impact on the doses calculated or in the total curies released from the Limerick Generating Station.

TABLE 1 GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES

PERIOD 2005

A. FISSION AND ACTIVATION GASSES

	Units	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Est. Total Error %
1. Total Release	Ci	1.21E+01	1.39E+00	4.43E+00	2.09E+01	3.66E+01
2. Average Release Rate for Period	uCi/sec	1.54E+00	1.76E-01	5.64E-01	2.66E+00	
3. Percent of ODCM Limit	%	5.35E-03	1.48E-03	4.96E-03	2.45E-02	
- Gamma Air Dose	%	5.35E-03	1.48E-03	4.96E-03	2.45E-02	
- Beta Air Dose	%	3.03E-03	4.59E-04	1.53E-03	7.50E-03	

B. IODINES

	Units	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Est. Total Error %
1. Total – I-131	Ci	5.41E-04	<LLD	<LLD	9.09E-07	2.04E+01
2. Average Release Rate for Period	uCi/sec	6.88E-05	<LLD	<LLD	1.16E-07	
3. Percent of Limit	%	*	*	*	*	

C. PARTICULATES

	Units	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Est. Total Error %
1. Particulates with T 1/2 > 8 days	Ci	8.37E-05	4.25E-05	<LLD	8.95E-06	2.26E+01
2. Average Release Rate for Period	uCi/sec	1.07E-05	5.40E-06	<LLD	1.14E-06	
3. Percent of ODCM Limit	%	*	*	*	*	
4. Gross Alpha	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	<LLD	3.28E+00	1.57E+01
2. Average Release Rate for Period	uCi/sec	<LLD	<LLD	<LLD	4.17E-01	
3. Percent of ODCM Limit	%	*	*	*	*	

E. Iodine 131 & 133, Tritium & Particulate

	Units	Qtr 1	Qtr 2	Qtr 3	Qtr 4
1. Percent of ODCM Limit	%	5.77E-01	1.79E-03	N/A	6.03E-03
- Organ Dose	%	5.77E-01	1.79E-03	N/A	6.03E-03

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

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

TABLE 8 LIQUID EFFLUENTS – SUMMATION OF ALL RELEASES

PERIOD 2005

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	1.27E-03	2.55E-04	3.55E-03	2.49E-04	2.11E+01
2. Average diluted concentration during batch discharge for the period	uCi/ml	1.22E-08	1.01E-08	6.30E-08	5.29E-09	
3. % of ODCM Limit - Whole Body Dose*	%	1.46E-02	3.60E-03	2.73E-02	5.17E-03	
- Organ Dose*		4.40E-03	1.40E-03	8.27E-03	1.56E-03	

B. TRITIUM

	Units	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Est. Total Error %
1. Total Release	Ci	1.46E+01	2.69E+00	6.48E+00	5.95E+00	6.43E+00
2. Average diluted concentration during batch discharge for the period	uCi/ml	1.40E-04	1.06E-04	1.15E-04	1.27E-04	
3. % of ODCM Limit - MPC	%	4.67E+00	3.53E+00	3.83E+00	4.23E+00	

C. DISSOLVED AND ENTRAINED GASSES

	Units	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Est. Total Error %
1. Total release	Ci	9.19E-04	3.61E-07	2.35E-04	2.37E-04	2.11E+01
2. Average diluted concentration during batch discharge for the period	uCi/ml	8.84E-09	1.43E-11	4.17E-09	5.05E-09	
3. % of ODCM Limit - MPC	%	4.42E-03	7.15E-06	2.09E-03	2.53E-03	

D. GROSS ALPHA RADIOACTIVITY

	Units	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Est. Total Error %
1. Total release	Ci	<LLD	<LLD	<LLD	9.90E-5	2.30E+01
2. Average diluted concentration during batch discharge for the period	uCi/ml	<LLD	<LLD	<LLD	5.89E-8	

	Units	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Est. Total Error %
Volume of waste released (prior to dilution)	Liters	3.55E+06	9.84E+05	2.03E+06	1.68E+06	5.00E+00
Volume of dilution water used during period	Liters	1.00E+08	2.43E+07	5.44E+07	4.53E+07	3.56E+00

* Percent of limit includes tritium.