

Exelon Nuclear  
Peach Bottom Atomic Power Station  
1848 Lay Road  
Delta, PA 17314-9032

Telephone 717.456.7014  
www.exeloncorp.com

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U.S. Nuclear Regulatory Commission  
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Peach Bottom Atomic Power Station Unit Nos. 2 and 3  
& Independent Spent Fuel Storage Installation (ISFSI)  
Facility Operating License Nos. DPR-44 and DPR-56  
NRC Docket Nos. 50-277 and 50-278 & ISFSI Docket 72-29

SUBJECT: Radioactive Effluent Release Report No. 48  
January 1, 2005 through December 31, 2005

Enclosed are two copies of the Radioactive Effluent Release Report No. 48, January 1, 2005, through December 31, 2005, for Peach Bottom Atomic Power Station Unit Nos. 2 and 3.

This report is being submitted in compliance with 10CFR 50.36a (2) and the Technical Specifications of Operating Licenses DPR-44 and DPR-56, and to fulfill the requirements of Regulatory Guide 10.1. Additionally, this report is submitted to satisfy annual effluent reporting requirements for the ISFSI required by the Offsite Dose Calculation Manual (ODCM).

No revisions were made to the ODCM or PCP.

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,



Robert C. Braun  
Site Vice President  
Peach Bottom Atomic Power Station

  
RCB/JFG/FLJ/DLO/bcb

Enclosures (2)

ccn 06-14029

cc: S. J. Collins, Administrator, Region I, US NRC  
G. F. Wunder, Project Manager, US NRC  
F. Bower, US NRC Senior Resident Inspector, PBAPS A4

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A009

**PEACH BOTTOM ATOMIC POWER STATION**

**Unit Numbers 2 and 3**

**Docket Numbers 50-277 and 50-278**

**PBAPS Independent Spent Fuel Storage Installation**

**Docket Number 72-29**

**RADIOACTIVE EFFLUENT RELEASE REPORT**

**NO. 48**

**JANUARY 1, 2005 THROUGH DECEMBER 31, 2005**

Submitted to  
The United States Nuclear Regulatory Commission  
Pursuant to  
Facility Operating Licenses DPR-44 and DPR-56

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Francis J. J. J.  
Chemistry / Radwaste Manager

## INTRODUCTION

In accordance with the Reporting Requirements of Technical Specification 5.6.3 applicable during the reporting period, this report summarizes the Effluent Release Data for Peach Bottom Atomic Power Station Units 2 and 3 for the period January 1, 2005 through December 31, 2005. The notations E and E- are used to denote positive and negative exponents to the base 10, respectively.

The release of radioactive materials during the reporting period was within the Offsite Dose Calculation Manual Specification limits.

There were five unplanned releases of liquid radioactive material.

There were no gaseous or liquid radioactive releases from the Independent Spent Fuel Storage Installation, NRC Docket No. 72-29 (ISFSI).

There were no changes to RW-AA-100 "Process Control Program for Radioactive Waste".

There were no changes to the ODCM during this reporting period.

Exelon common procedures which provide consistent expectations and standards for Radioactive Effluents Controls Program were used to generate this report. They are:

- CY-AA-170-000, Radioactive Effluent and Environmental Monitoring Program
- CY-AA-170-100, Radiological Environmental Monitoring Program
- CY-AA-170-200, Radioactive Effluent Controls Program
- CY-AA-170-300, Offsite Dose Calculation Manual Administration
- CY-AA-170-2000, Annual Radioactive Effluent Release Report
- CY-AA-170-2100, Estimated Errors of Effluent Measurement
- CY-AA-170-3100, Offsite Dose Calculation Manual Revisions

**Facility: Peach Bottom Units 2 & 3**

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Attachment 1

Supplemental Information



Facility: Peach Bottom Units 2 & 3

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## 1. Regulatory Limits

## A. Noble Gases:

- |    |                     |              |   |                           |
|----|---------------------|--------------|---|---------------------------|
| 1. | $\leq 500$ mRem/Yr  | - total body | - | ODCMS 3.8.C.1.a           |
|    | $\leq 3000$ mRem/Yr | - skin       |   |                           |
| 2. | $\leq 10$ mRad      | - air gamma  | - | quarterly air dose limits |
|    | $\leq 20$ mRad      | - air beta   |   | ODCMS 3.8.C.2.a and b     |
| 3. | $\leq 20$ mRad      | - air gamma  | - | yearly air dose limits    |
|    | $\leq 40$ mRad      | - air beta   |   | ODCMS 3.8.C.2.c and d     |

## B. Iodines, Tritium, Particulates with Half Life &gt;8 days:

- |    |                     |             |   |  |
|----|---------------------|-------------|---|--|
| 1. | $\leq 1500$ mRem/Yr | - any organ | - | ODCMS 3.8.C.1.b                          |
| 2. | $\leq 15$ mRem      | - any organ | - | quarterly dose limits<br>ODCMS 3.8.C.3.a |
| 3. | $\leq 30$ mRem      | - any organ | - | yearly dose limits<br>ODCMS 3.8.C.3.b    |

## C. Liquid Effluents

- |    |  |              |   |                       |
|----|--|--------------|---|-----------------------|
| 1. | Concentration $\leq 10$ times 10 CFR 20, Appendix B, Table 2, Col. 2 |              | - | ODCMS 3.8.B.1.a       |
| 2. | $\leq 3.0$ mRem  | - total body | - | quarterly dose limits |
|    | $\leq 10$ mRem   | - any organ  |   | ODCMS 3.8.B.2.a       |
| 3. | $\leq 6.0$ mRem  | - total body | - | yearly dose limits    |
|    | $\leq 20$ mRem   | - any organ  |   | ODCMS 3.8.B.2.b       |

## D. 40 CFR 190 and 10 CFR 72.104

- |                 |                                    |   |                 |
|-----------------|------------------------------------|---|-----------------|
| $\leq 25$ mRem  | - total body                       | - | ODCMS 3.8.D.1.a |
| $\leq 75$ mRem  | - thyroid                          |   | ODCMS 3.8.D.1.b |
| $\leq 25$ mRem  | - any other organ                  |   | ODCMS 3.8.D.1.c |
| $\leq 3.0$ mRem | - from liquid and gaseous effluent |   | ODCMS 3.8.D.1.d |
| $\leq 55$ mRem  | - thyroid from gases               |   | ODCMS 3.8.D.1.e |

## 2. 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 ODCMS 3.8.C.1.a and 3.8.C.1.b.

The Effluent Concentrations Limits (ECL) specified in 10 CFR 20, Appendix B, Table 2, Column 2 times 10, for identified nuclides, are used to calculate permissible release rates and concentrations for liquid release per Peach Bottom Offsite Dose Calculation Manual Specification 3.8.B.1.

The total activity concentration for all dissolved or entrained gases is limited to  $\leq 2\text{E-}04 \mu\text{Ci/ml}$ .

## 3. Average Energy:

The Peach Bottom 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 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 Peach Bottom.

## 4. Measurements and Approximations of Total Radioactivity:

### A. Fission and Activation Gases:

The method used for Gamma Isotopic Analysis is the Canberra Genie System with a gas Marinelli beaker. Grab samples are taken and analyzed at least monthly to determine the isotopic mixture of noble gas activity released for the month. Airborne effluent gaseous activity was continuously monitored and recorded in accordance with ODCMS Table 4.8.C.1. The data from the noble gas radiation monitor was analyzed to report noble gas effluent activities. When no activity was found in the grab isotopic analysis, the isotopic mixture was assumed to be that specified in ODCM IV.B. If activity was found in the grab isotopic analysis, the isotopic mixture for the Noble Gas Monitor was determined from that isotopic mixture.

### B. Iodines:

The method used is the Canberra Genie System with a charcoal cartridge. Iodine activity was continuously sampled and analyzed in accordance with ODCMS Table 4.8.C.1.

C. Particulates:

The method used is the Canberra Genie System with a particulate filter (47 mm). Particulate activity was continuously sampled and analyzed in accordance with ODCM Table 4.8.C.1.

Composite particulate air samples were submitted to an offsite vendor laboratory for analysis of Sr-89, Sr-90 and gross alpha.

D. Tritium in Gaseous Effluents:

Air from the off-gas stack and building vents was passed through two bubblers in series and an aliquot of the water was analyzed using a Liquid Scintillation Counter.

E. Liquid Effluents:

Batch Releases

Gamma isotopic activity concentrations are determined on each batch of liquid effluent prior to release using the Canberra Genie System in accordance with ODCMS Table 4.8.B.1. The total activity of a released batch is determined by multiplying each nuclide's concentration by the total volume discharged.

Composite liquid radwaste samples counted for tritium and submitted to an offsite vendor laboratory for analysis of Fe-55, Sr-89, Sr-90 and gross alpha.

Abnormal Releases

Gamma isotopic activity concentrations are determined by analyzing the source of the water released (Torus or Reactor Building Closed Cooling Water (RBCCW)) using the Canberra Genie System. The maximum concentration from several sample analyses is used for performing release calculations.

Composite liquid torus samples counted for tritium and submitted to an offsite vendor laboratory for analysis of Fe-55, Sr-89, Sr-90 and gross alpha. The RBCCW tritium, Fe-55, Sr-89, Sr-90 and gross alpha were calculated from the reactor water analysis and ratioed using Co-60.

F. The ODCM required lower limit of detection (LLD) for liquid and gaseous effluents are as follows:

<b>Liquid Effluents:</b>	<b>LLD</b>
Identifiable Gamma Emitters	5 E -07 $\mu\text{Ci/ml}$
I-131	1 E -06 $\mu\text{Ci/ml}$
Fe-55	1 E -06 $\mu\text{Ci/ml}$
Tritium	1 E -05 $\mu\text{Ci/ml}$
Gross Alpha	1 E -07 $\mu\text{Ci/ml}$
Sr-89	5 E -08 $\mu\text{Ci/ml}$
Sr-90	5 E -08 $\mu\text{Ci/ml}$
Dissolved noble gases	1 E -05 $\mu\text{Ci/ml}$
<b>Gaseous Effluents:</b>	<b>LLD</b>
Gas Identifiable Gamma Emitters	1 E -04 $\mu\text{Ci/ml}$
Tritium	1 E -06 $\mu\text{Ci/ml}$
I-131	1 E -12 $\mu\text{Ci/ml}$
Particulate Identifiable Gamma Emitters	1 E -10 $\mu\text{Ci/ml}$
Particulate Composite Gross Alpha	1 E -11 $\mu\text{Ci/ml}$
Particulate Composite Sr-89	1 E -11 $\mu\text{Ci/ml}$
Particulate Composite Sr-90	1 E -11 $\mu\text{Ci/ml}$
Noble Gas Monitors	1 E -06 $\mu\text{Ci/ml}$
Aux Boiler Oil Identifiable Gamma Emitters	5 E -07 $\mu\text{Ci/ml}$

G. Estimated Total Error Present

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

## 5. Batch Releases:

## A. Liquid:

	QTR 1	QTR 2	QTR 3	QTR 4
Number of batch releases:	20	10	13	26
Total Time for batch releases (minutes)	3869	2887	2338	5949
Maximum time period for batch release (minutes):	363	315	289	290
Average time period for batch release (minutes):	193	289	180	229
Minimum time period for batch release (minutes):	45	265	40	37
Dilution volume (liters):	1.13E10	1.48E10	9.89E9	1.83E10

## B. Gaseous:

	QTR 1	QTR 2	QTR 3	QTR 4
Number of batch releases:	0	0	0	0
Total Time for batch releases (minutes)	0	0	0	0
Maximum time period for batch release (minutes):	0	0	0	0
Average time period for batch release (minutes):	0	0	0	0
Minimum time period for batch release (minutes):	0	0	0	0

6. Average Stream Flow:

The river flow is not used for dose calculations. The actual discharge of circulating water is used for liquid dose calculations. The circulating water varies from 675,000 gpm in the winter to 1,350,000 gpm in the summer.

7. Abnormal Releases:

A. Liquid:

1. Event description – 3A Residual Heat Removal (RHR) to High Pressure Service Water (HPSW) leak

On 09/30/2002, routine sampling of the 3A HPSW effluent radiation monitor to the discharge canal detected low-level radioactive contamination. Subsequent investigation determined that a trace amount (0.012 gpm) of condensate stay-full or primary coolant water was leaking through the Unit 3A RHR heat exchanger into the 3A loop of the HPSW system. The leak was repaired on 01/12/2005.

Analysis of Releases

It was estimated that the contaminated water released to the discharge canal for all of 2005 was responsible for  $1.09\text{E-}5$  mRem total body dose, and  $1.93\text{E-}5$  mRem Critical Organ (Teen Liver) dose. This dose contribution was well below the limits specified in the ODCM.

Representative samples were analyzed for all the parameters of radioactive effluent releases. The dose contributions and isotope quantities from the releases were added to this Radioactive Effluent Release Report for the applicable reporting periods.

2. Event description – Unit 2 RBCCW to Service Water (SW) leak

On 07/15/2005 a leak from the Unit 2 RBCCW system to service water was detected by a decrease in head tank level. The leak was determined to be 0.0043 gpm. The Unit 2 RBCCW was contaminated from a leak in the Unit 2 Reactor Water Cleanup system (RWCU) non-regenerative heat exchanger. The system was isolated on 09/07/2005 and the leak to SW was stopped.

Analysis of Releases

It was estimated that the contaminated water released to the discharge canal for all of 2005 was responsible for  $5.57\text{E-}6$  mRem total body dose,

and  $7.90\text{E-}6$  mRem Critical Organ (Teen Liver) dose. This dose contribution was well below the limits specified in the ODCM.

Representative samples were analyzed for all gamma activity of the radioactive effluent releases. Concentration of the beta and alpha emitters were calculated by ratio from reactor coolant samples. The dose contributions and isotope quantities from the releases were added to this Radioactive Effluent Release Report for the applicable reporting periods.

3. Event description – 2B Residual Heat Removal (RHR) to High Pressure Service Water (HPSW) leak

On 09/16/2005, the diaphragm on the dp instrument failed causing a leak of 0.24 gpm into the reactor vessel. The 2B RHR heat exchanger was isolated and the 2D RHR heat exchanger was put in service. With the Heat exchanger out of service the RHR leaked into the HPSW. The leak was repaired on 09/21/2005.

Analysis of Releases

It was estimated that the contaminated water released to the discharge canal was responsible for  $1.76\text{E-}4$  mRem total body dose, and  $2.90\text{E-}4$  mRem Critical Organ (Teen Liver) dose. This dose contribution was well below the limits specified in the ODCM.

Representative samples were analyzed for all the parameters of radioactive effluent releases. The dose contributions and isotope quantities from the releases were added to this Radioactive Effluent Release Report for the applicable reporting periods.

4. Event description – 2C Residual Heat Removal (RHR) to High Pressure Service Water (HPSW) leak

On 08/01/2005, routine sampling of the HPSW effluent to the discharge canal detected low-level radioactive contamination. Subsequent investigation determined that a trace amount of condensate stay-full or primary coolant water was leaking through the Unit 2C RHR heat exchanger into the 2A loop of the HPSW system. The 2C RHR continued to be a source of contamination to the end of 2005 (0.02 gpm)

Analysis of Releases

It was estimated that the contaminated water released to the discharge canal for all of 2005 was responsible for  $4.20\text{E-}4$  mRem total body dose,



and  $6.87\text{E-}4$  mRem Critical Organ (Teen Liver) dose. This dose contribution was well below the limits specified in the ODCM.

Representative samples were analyzed for all the parameters of radioactive effluent releases. The dose contributions and isotope quantities from the releases were added to this Radioactive Effluent Release Report for the applicable reporting periods.

5. Event description – 2D Residual Heat Removal (RHR) to High Pressure Service Water (HPSW) leak

On 10/07/2005, routine sampling of the HPSW effluent to the discharge canal detected low-level radioactive contamination. Subsequent investigation determined that a trace amount of condensate stay-full or primary coolant water was leaking through the Unit 2D RHR heat exchanger into the 2B loop of the HPSW system. The 2D RHR continued to be a source of contamination to the end of 2005 (0.0189 gpm)

Analysis of Releases

It was estimated that the contaminated water released to the discharge canal for all of 2005 was responsible for  $2.42\text{E-}4$  mRem total body dose, and  $3.95\text{E-}3$  mRem Critical Organ (Teen Liver) dose. This dose contribution was well below the limits specified in the ODCM.

Representative samples were analyzed for all the parameters of radioactive effluent releases. The dose contributions and isotope quantities from the releases were added to this Radioactive Effluent Release Report for the applicable reporting periods.

B. Gaseous:

No abnormal releases.

8. Changes to the ODCM:

There were no changes to the ODCM during this reporting period.

9. Minimum Detectable Concentrations:

A. Liquid:

If a radionuclide was not detected, < LLD was reported for that isotope. Samples were analyzed with techniques that achieved the required Lower Limits of Detection (LLD) as specified in Offsite Dose Calculation Manual Specification Table 4.8.B.1, Radioactive Liquid Waste Sampling and Analysis. In all cases, the LLD requirements were satisfied.

B. Gaseous:

If a radionuclide was not detected, < LLD was reported for that isotope. Samples were analyzed with techniques which achieved the required Lower Limits of Detection (LLD) as specified in Offsite Dose Calculation Manual Specification Table 4.8.C.1, Radioactive Gaseous Waste Sampling and Analysis from Main Stack and Vent Stack. In all cases, the LLD requirements were satisfied.

10. Environmental Monitoring Changes

A. Milk Sampling

The control milk farm A in the WSW sector at 30,493 feet went out of the milking business. The control farm was replaced by farm T in the W sector at 34,581 feet. No milk samples were missed as a result of the change of milk farms.

B. Direct Radiation

TLD 1K was added in the SW sector at 4,604 feet. The TLD was added to comply with ODCMS Table 4.8.E.1.1 requirement for TLD stations in the general area of the SITE BOUNDARY and a residence at the location.

C. Vegetation was sampled on Oct. 6, 2005 at three locations:

55 at about 9.9 miles in the NE sector  
2B at about 0.7 miles in the SSE sector  
1Q at about 0.8 miles in the WNW sector

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Attachment 2  
Effluent Summary

Facility: Peach Bottom Units 2 & 3

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## Attachment 2

## Gaseous Effluents - Summation Of All Releases

Period: 2005

Unit: Peach Bottom Units 2 &amp; 3

A. Fission & Activation Gases		Unit	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Est. Total Error %
1. Total Release		Ci	8.56E+01	1.90E+02	4.88E+02	2.69E+02	3.51E+01
2. Average release rate for the period		μCi/sec	1.09E+01	2.41E+01	6.20E+01	3.42E+01	
3. Percent of ODCM limit - Gamma		%	1.50E-01	2.43E-01	4.15E-01	3.70E-01	
- Beta			5.25E-02	8.40E-02	1.48E-01	1.32E-01	

B. Iodine							
1. Total iodine - 131		Ci	6.64E-05	8.40E-03	1.43E-02	2.36E-03	1.76E+01
2. Average release rate for period		μCi/sec	8.45E-06	1.07E-03	1.82E-03	3.01E-04	
3. Percent of ODCM limit		%	*	*	*	*	

C. Particulates							
1. Particulates with half-lives > 8 days		Ci	1.32E-04	3.82E-04	2.45E-03	7.91E-04	1.94E+01
2. Average release rate for the period		μCi/sec	1.68E-05	4.86E-05	3.12E-04	1.01E-04	
3. Percent of ODCM limit		%	*	*	*	*	
3. Gross alpha radioactivity		Ci	<LLD	<LLD	<LLD	<LLD	

D. Tritium							
1. Total release		Ci	<LLD	<LLD	<LLD	<LLD	1.11E+01
2. Average release rate for the period		μCi/sec	<LLD	<LLD	<LLD	<LLD	
3. Percent of ODCM limit		%	*	*	*	*	

E. Iodine 131 & 133, Tritium & Particulate						
1. Percent of ODCM limit		%	2.23E-03	4.07E-01	6.93E-01	1.09E-01

\* Limit is no longer applicable to iodine and particulate. Section E provides limit.

## Attachment 2

## Gaseous Effluents for Elevated Release Point - Main Stack

Period: 2005

Unit: Peach Bottom Units 2 &amp; 3

NUCLIDES RELEASED		CONTINUOUS MODE				BATCH MODE			
1. Fission gases	Unit	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Quarter 1	Quarter 2	Quarter 3	Quarter 4
Kr-85	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-85m	Ci	<LLD	3.12E+00	6.66E+00	1.34E+01	<LLD	<LLD	<LLD	<LLD
Kr-87	Ci	<LLD	1.31E+00	2.67E+00	2.06E+00	<LLD	<LLD	<LLD	<LLD
Kr-88	Ci	<LLD	8.07E-01	3.79E+00	1.08E+01	<LLD	<LLD	<LLD	<LLD
Xe-133	Ci	7.24E+00	6.94E+01	1.54E+02	1.64E+01	<LLD	<LLD	<LLD	<LLD
Xe-135	Ci	5.88E+00	6.35E+00	6.91E+01	2.61E+00	<LLD	<LLD	<LLD	<LLD
Xe-135m	Ci	<LLD	3.93E+00	3.43E+01	2.47E+00	<LLD	<LLD	<LLD	<LLD
Xe-138	Ci	<LLD	1.05E+01	3.88E+01	3.85E+01	<LLD	<LLD	<LLD	<LLD
Ar-41	Ci	<LLD	<LLD	<LLD	3.15E-01	<LLD	<LLD	<LLD	<LLD
Xe-133m	Ci	<LLD	<LLD	2.04E+00	<LLD	<LLD	<LLD	<LLD	<LLD
Unidentified	Ci	1.54E+01	<LLD	<LLD	3.03E+01	<LLD	<LLD	<LLD	<LLD
Total for Period	Ci	2.85E+01	9.54E+01	3.11E+02	1.17E+02	<LLD	<LLD	<LLD	<LLD
2. Iodines									
I-131	Ci	5.21E-05	1.21E-03	2.18E-03	6.44E-04	<LLD	<LLD	<LLD	<LLD
I-133	Ci	6.13E-05	6.99E-04	3.62E-03	8.73E-04	<LLD	<LLD	<LLD	<LLD
I-135	Ci	<LLD	2.38E-04	2.25E-03	6.20E-04	<LLD	<LLD	<LLD	<LLD
Total for Period	Ci	1.13E-04	2.15E-03	8.05E-03	2.14E-03	<LLD	<LLD	<LLD	<LLD
3. Particulates									
Sr-89	Ci	6.28E-05	1.26E-04	3.64E-04	2.60E-04	<LLD	<LLD	<LLD	<LLD
Sr-90	Ci	<LLD	<LLD	1.70E-06	6.42E-07	<LLD	<LLD	<LLD	<LLD
Cs-134	Ci	<LLD	7.33E-06	1.12E-05	2.46E-06	<LLD	<LLD	<LLD	<LLD
Cs-137	Ci	<LLD	5.19E-06	1.06E-05	3.32E-06	<LLD	<LLD	<LLD	<LLD
Ba-140	Ci	6.85E-05	7.29E-05	1.26E-04	1.93E-04	<LLD	<LLD	<LLD	<LLD
La-140	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Cr-51	Ci	<LLD	<LLD	<LLD	1.62E-06	<LLD	<LLD	<LLD	<LLD
Mn-54	Ci	<LLD	<LLD	<LLD	5.10E-07	<LLD	<LLD	<LLD	<LLD
Co-58	Ci	<LLD	<LLD	3.65E-07	<LLD	<LLD	<LLD	<LLD	<LLD
Co-60	Ci	7.60E-07	1.66E-06	1.43E-05	8.69E-06	<LLD	<LLD	<LLD	<LLD
Mo-99	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Ag-110m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Ce-141	Ci	<LLD	1.40E-07	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Ce-144	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Hg-203	Ci	<LLD	<LLD	6.70E-07	<LLD	<LLD	<LLD	<LLD	<LLD
Zn-65	Ci	<LLD	<LLD	<LLD	5.07E-06	<LLD	<LLD	<LLD	<LLD
	Ci								
	Ci								
Total for Period	Ci	1.32E-04	2.13E-04	5.29E-04	4.75E-04	<LLD	<LLD	<LLD	<LLD

## Attachment 2

## Gaseous Effluents Ground Level Release Point - Unit 2 &amp; 3 Roof Vents &amp; Aux Boiler Stack

Period: 2005

Unit: Peach Bottom Units 2 &amp; 3

Nuclides Released			Continuous Mode				Batch Mode			
1. Fission gases	Unit		Quarter 1	Quarter 2	Quarter 3	Quarter 4	Quarter 1	Quarter 2	Quarter 3	Quarter 4
Kr-85	Ci		<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-85m	Ci		<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-87	Ci		<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-88	Ci		<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-133	Ci		<LLD	<LLD	1.04E+01	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-135	Ci		<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-135m	Ci		<LLD	<LLD	7.99E+00	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-138	Ci		<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Ar-41	Ci		<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-133m	Ci		<LLD	<LLD	<LLD	1.17E+01	<LLD	<LLD	<LLD	<LLD
Unidentified	Ci		5.71E+01	9.44E+01	1.58E+02	1.40E+02	<LLD	<LLD	<LLD	<LLD
Total for Period	Ci		5.71E+01	9.44E+01	1.76E+02	1.52E+02	<LLD	<LLD	<LLD	<LLD
<b>2. Iodines</b>										
I-131	Ci		1.43E-05	7.19E-03	1.21E-02	1.72E-03	<LLD	<LLD	<LLD	<LLD
I-133	Ci		<LLD	6.25E-03	2.89E-02	3.56E-03	<LLD	<LLD	<LLD	<LLD
I-135	Ci		<LLD	1.81E-03	7.49E-03	<LLD	<LLD	<LLD	<LLD	<LLD
Total for Period	Ci		1.43E-05	1.53E-02	4.85E-02	5.28E-03	<LLD	<LLD	<LLD	<LLD
<b>3. Particulates</b>										
Sr-89	Ci		<LLD	3.67E-05	3.45E-04	8.97E-05	<LLD	<LLD	<LLD	<LLD
Sr-90	Ci		<LLD	2.69E-06	3.21E-05	<LLD	<LLD	<LLD	<LLD	<LLD
Cs-134	Ci		<LLD	5.14E-05	1.02E-04	<LLD	<LLD	<LLD	<LLD	<LLD
Cs-137	Ci		<LLD	2.48E-05	2.20E-05	5.47E-06	<LLD	<LLD	<LLD	<LLD
Ba-140	Ci		<LLD	<LLD	7.93E-04	7.22E-05	<LLD	<LLD	<LLD	<LLD
La-140	Ci		<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Cr-51	Ci		<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Mn-54	Ci		<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Co-58	Ci		<LLD	<LLD	1.54E-05	<LLD	<LLD	<LLD	<LLD	<LLD
Co-60	Ci		<LLD	5.31E-05	4.19E-04	8.02E-05	<LLD	<LLD	<LLD	<LLD
Mo-99	Ci		<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Ag-110m	Ci		<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Ce-141	Ci		<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Ce-144	Ci		<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Zn-65	Ci		<LLD	<LLD	1.95E-04	6.84E-05	<LLD	<LLD	<LLD	<LLD
	Ci									
	Ci									
	Ci									
Total for Period	Ci		<LLD	1.69E-04	1.92E-03	3.16E-04	<LLD	<LLD	<LLD	<LLD



## Attachment 2

## Liquid Effluents - Summation Of All Releases

Period: 2005

Unit: Peach Bottom Units 2 &amp; 3

<b>A. FISSION &amp; ACTIVATION PRODUCTS</b>	<b>Unit</b>	<b>Quarter 1</b>	<b>Quarter 2</b>	<b>Quarter 3</b>	<b>Quarter 4</b>	<b>Est. Total Error %</b>
1. Total Release (not including tritium, gases & alpha)	Ci	6.56E-03	1.00E-04	7.19E-03	1.35E-02	2.11E+01
2. Average diluted concentration during batch discharges for the period	µCi/mL	5.79E-10	6.79E-12	7.28E-10	7.41E-10	
4. Percent of ODCM limit - Whole Body	%	6.43E-03	1.68E-03	1.04E-02	2.70E-02	
- Organ		3.30E-03	8.78E-04	4.50E-03	1.28E-02	

<b>B. TRITIUM</b>						
1. Total Release	Ci	3.67E+00	3.12E+00	2.44E+00	6.05E+00	6.40E+00
2. Average diluted concentration during batch discharges for the period	µCi/mL	3.24E-07	2.11E-07	2.47E-07	3.32E-07	
4. Percent of 10 CFR 20 limit	%	3.24E-02	2.11E-02	2.47E-02	3.32E-02	

<b>C. DISSOLVED &amp; ENTRAINED GASES</b>						
1. Total Release	Ci	2.63E-06	1.32E-04	7.61E-04	4.35E-04	2.11E+01
2. Average diluted concentration during batch discharges for the period	µCi/mL	2.33E-13	8.97E-12	7.70E-11	2.38E-11	
4. Percent of ODCM limit	%	1.16E-07	4.49E-06	3.85E-05	1.19E-05	

<b>D. GROSS ALPHA ACTIVITY</b>						
1. Total release	Ci	7.18E-08	0.00E+00	4.30E-06	5.59E-06	2.30E+01

<b>E. VOLUME OF WASTE RELEASED (prior to dilution)</b>	<b>Liters</b>					
		8.53E+05	7.11E+05	5.15E+05	1.52E+06	5.00E+00

<b>F. VOLUME OF DILUTION WATER USED DURING BATCH DISCHARGES</b>	<b>Liters</b>					
		1.13E+10	1.48E+10	9.89E+09	1.83E+10	2.22E+01

<b>G. TOTAL VOLUME OF DILUTION WATER USED CONTINUOUS RELEASE</b>	<b>Liters</b>					
		6.55E+10	0.00E+00	5.09E+11	5.15E+11	2.22E+01

## Attachment 2

## Liquid Effluents Release Point - Liquid Radwaste &amp; RHR Leaks &amp; RBCCW Leaks

Period: 2005

Unit: Peach Bottom Units 2 &amp; 3

NUCLIDES RELEASED			CONTINUOUS MODE				BATCH MODE			
1. Fission gases	Unit		Quarter 1	Quarter 2	Quarter 3	Quarter 4	Quarter 1	Quarter 2	Quarter 3	Quarter 4
Sr-89	Ci		<LLD	<LLD	1.41E-06	1.20E-06	<LLD	<LLD	1.89E-04	<LLD
Sr-90	Ci		<LLD	<LLD	1.76E-08	<LLD	<LLD	<LLD	3.43E-05	<LLD
Cs-134	Ci		<LLD	<LLD	3.38E-05	4.67E-05	7.39E-07	<LLD	<LLD	4.07E-07
Cs-137	Ci		3.56E-06	<LLD	1.19E-04	1.49E-04	1.12E-05	1.39E-05	1.95E-05	7.17E-05
I-131	Ci		<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	1.12E-03
Co-58	Ci		<LLD	<LLD	3.98E-04	5.99E-04	<LLD	<LLD	<LLD	<LLD
Co-60	Ci		2.14E-04	<LLD	3.73E-03	5.68E-03	2.73E-05	3.05E-05	1.45E-05	1.59E-03
Fe-59	Ci		<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Zn-65	Ci		2.22E-05	<LLD	3.80E-04	4.70E-04	<LLD	<LLD	<LLD	4.09E-05
Mn-54	Ci		3.57E-05	<LLD	2.07E-03	2.85E-03	6.90E-06	<LLD	9.37E-07	5.57E-05
Cr-51	Ci		<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Zr-95	Ci		<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Nb-95	Ci		<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Mo-99	Ci		<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Tc-99m	Ci		<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Ba-140	Ci		<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	2.51E-07	<LLD
La-140	Ci		<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Ce-141	Ci		<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Ag-110m	Ci		<LLD	<LLD	4.74E-08	<LLD	<LLD	<LLD	<LLD	2.47E-05
Fe-55	Ci		1.09E-05	<LLD	2.06E-04	2.99E-04	6.20E-03	<LLD	<LLD	<LLD
P-32	Ci		<LLD	<LLD	1.68E-08	<LLD	1.78E-05	5.58E-05	1.04E-05	1.98E-05
Sb-124	Ci		9.73E-07	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	1.17E-04
Hf-175	Ci		<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	2.64E-06
Nb-95m	Ci		<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	1.21E-05
Nb-97	Ci		<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	9.47E-06
Sb-125	Ci		<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	3.33E-04
Nd-147	Ci		<LLD	<LLD	<LLD	<LLD	4.81E-06	<LLD	<LLD	<LLD
I-133	Ci		<LLD	<LLD	1.49E-05	1.95E-05	<LLD	<LLD	<LLD	<LLD
	Ci									
	Ci									
	Ci									
	Ci									
Total for Period	Ci		2.87E-04	<LLD	6.95E-03	1.01E-02	6.27E-03	1.00E-04	2.39E-04	3.40E-03
Xe-133	Ci		<LLD	<LLD	<LLD	<LLD	<LLD	3.98E-05	2.21E-04	5.97E-05
Xe-135	Ci		<LLD	<LLD	<LLD	<LLD	2.63E-06	9.26E-05	5.41E-04	3.48E-04
Xe-133m	Ci		<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	2.72E-05

Facility: Peach Bottom Units 2 & 3

Licensee: Exelon Generation Company, LLC  
PSEG Nuclear, LLC

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Facility: Peach Bottom Units 2 & 3

Licensee: Exelon Generation Company, LLC  
PSEG Nuclear, LLC

Attachment 3

Solid Waste and Irradiated Fuel Shipments

Facility: Peach Bottom Units 2 & 3

Licensee: Exelon Generation Company, LLC  
PSEG Nuclear, LLC

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## A. Solid waste shipped offsite for burial or disposal (not irradiated fuel) 1/1/05 - 12/31/05

## 1. Type of Waste

Type of Waste	Units	2005	Est. Error Ci (%)
a. Spent Resin, Filters, Sludges, Evaporator Bottoms, etc.	m3	1.05E+02	
	Ci	1.83E+02	25
b. Dry Compressible Waste, Contaminated Equipment, etc.	m3	4.08E+02	
	Ci	2.54E+00	25
c. Irradiated Components, Control Rods, etc.	m3	0.00E+00	
	Ci	0.00E+00	N/A
d. Other (describe)	m3 (*)	6.12E+01	
Bulk Waste Oil for Incineration	Ci	1.25E-04	25

(\*) - Indicates volume of material shipped for incineration. No actual burial volume.

## 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 (0.01% min)	Waste Class B Curies	Percent Abundance (0.01% min)
H-3	2.06E-01	0.14%	5.77E-02	0.17%
C-14	1.21E+00	0.81%	7.00E-01	2.05%
Mn-54	7.43E+00	4.99%	9.15E-01	2.68%
Fe-55	1.63E+01	10.95%	6.56E+00	19.19%
Co-58	1.28E-01	0.09%	0.00E+00	0.00%
Co-60	7.00E+01	47.04%	1.86E+01	54.42%
Ni-63	5.95E+00	4.00%	2.36E+00	6.91%
Zn-65	3.26E+01	21.91%	4.90E-01	1.43%
Sr-90	1.74E-02	0.01%	6.12E-03	0.02%
Tc-99	3.24E-02	0.02%	8.39E-03	0.02%
Ru-106	0.00E+00	0.00%	8.28E-02	0.24%
Ag-110m	1.78E+00	1.20%	7.97E-02	0.23%
I-131	7.40E-02	0.05%	0.00E+00	0.00%
Cs-134	2.20E-01	0.15%	5.35E-02	0.16%
Cs-137	1.23E+01	8.26%	4.21E+00	12.32%
Ce-144	3.56E-01	0.24%	5.36E-02	0.16%
Pu-241	2.19E-01	0.15%	0.00E+00	0.00%
TOTALS	1.49E+02	100.00%	3.42E+01	100.00%

Facility: Peach Bottom Units 2 & 3

Licensee: Exelon Generation Company, LLC  
PSEG Nuclear, LLC

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

Isotope	Waste Class A Curies	Percent Abundance (0.01% min)
H-3	3.85E-02	1.51%
C-14	5.82E-03	0.23%
Cr-51	7.30E-03	0.29%
Mn-54	2.08E-01	8.18%
Fe-55	5.18E-01	20.38%
Fe-59	3.27E-03	0.13%
Co-58	6.19E-03	0.24%
Co-60	1.14E+00	44.85%
Ni-63	6.49E-02	2.55%
Zn-65	3.39E-01	13.34%
Sr-90	4.04E-03	0.16%
Tc-99	1.16E-02	0.46%
Ag-110m	4.38E-02	1.72%
I-131	6.85E-03	0.27%
Cs-134	3.34E-03	0.13%
Cs-137	1.05E-01	4.13%
Ba-140	1.84E-02	0.72%
La-140	6.19E-04	0.02%
Ce-141	5.19E-03	0.20%
Ce-144	1.09E-02	0.43%
Pu-241	1.16E-03	0.05%
TOTALS	2.54E+00	100.00%

Category C - Irradiated Components, Control Rods, etc.

None

Category D - Other (Bulk Waste Oil Shipped to Processor for Incineration)

Isotope	Waste Class A Curies	Percent Abundance (0.01% min)
C-14	1.03E-06	0.82%
Mn-54	8.08E-07	0.65%
Fe-55	1.63E-05	13.05%
Co-60	2.92E-05	23.31%
Ni-63	1.67E-06	1.34%
Zn-65	2.61E-06	2.09%
Sr-90	7.15E-07	0.57%
Tc-99	1.76E-08	0.01%
Ag-110m	1.05E-06	0.84%
Cs-137	1.18E-05	9.41%
Ce-144	5.99E-05	47.91%
TOTALS	1.25E-04	100.00%

Facility: Peach Bottom Units 2 & 3

Licensee: Exelon Generation Company, LLC  
PSEG Nuclear, LLC

3. Solid Waste (Disposition)

Number of Shipments	Mode of Transportation	Destination
36	Truck	Duratek to Envirocare (*)
13	Rail	Alaron to Envirocare (*)
24	Truck	Peach Bottom to Envirocare (*)
1	Truck	Peach Bottom to Barnwell

Comments:

(\*) - Envirocare also known as "Energy Solutions, Inc."

9 Shipments from Peach Bottom to Alaron, Corp. for processing.

7 Shipments from Peach Bottom to Duratek, Inc. for processing.

2 Shipments from Peach Bottom to Duratek, Inc. for incineration.

Category A - 17 Shipments Type A LSA

Category A - 2 Shipments >Type A LSA

Category B - 21 Shipments Type A LSA

Category B - 1 Shipment DOT Exempt Quantity

Category C - No Shipments Made

Category D - 2 Shipments Limited Quantity - Excepted Package

B. Irradiated Fuel Shipments (Disposition)

No shipments of this type were made during the reporting period.

C. Changes to the Process Control Program

No changes were made to the Process Control Program (RW-AA-100) during this reporting period.



Facility: Peach Bottom Units 2 & 3

Licensee: Exelon Generation Company, LLC  
PSEG Nuclear, LLC

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Facility: Peach Bottom Units 2 & 3

Licensee: Exelon Generation Company, LLC  
PSEG Nuclear, LLC

#### Attachment 4

#### Radiological Impact on Man

Facility: Peach Bottom Units 2 & 3

Licensee: Exelon Generation Company, LLC  
PSEG Nuclear, LLC

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1. The Annual Radiation Dose Assessment Report for January 1, 2005 to December 31, 2005 contained dose calculations based on current year meteorology and river flows. The total body and skin doses, 40 CFR 190 doses and doses to MEMBERS OF THE PUBLIC due to activities inside the site boundary are found in the Annual Radiation Dose Assessment Report for January 1, 2005 to December 31, 2005.
2. A summary of gaseous and liquid radiation annual doses to MEMBERS OF THE PUBLIC as calculated by the ODCM follows:

Effluent	Applicable Organ	Estimated Dose	Age Group	Location		% of Applicable Limit	Limit	Unit
				Distance (meters)	Direction (toward)			
Noble Gas	Gamma - Air Dose	1.18E-01	All	1097	SSE	5.90E-01	20	mRad
Noble Gas	Beta - Air Dose	8.32E-02	All	1097	SSE	2.08E-01	40	mRad
Iodine, Particulate & Tritium	Thyroid	1.82E-01	Infant	1431	WSW	6.07E-01	30	mrem
Direct Radiation	Total Body	<LLD	All	1150	SSE	<LLD	22	mrem
Liquid	Total Body	1.37E-03	Adult	Site Boundary		2.28E-02	6	mrem
Liquid	Liver	2.15E-03	Adult	Site Boundary		1.07E-02	20	mrem

Doses calculated were well below all ODCM limits.

3. Liquid and gaseous effluent radiation monitors and instrumentation

No effluent radiation monitors and instrumentation were unavailable for periods beyond the requirements of the ODCM.

Facility: Peach Bottom Units 2 & 3

Licensee: Exelon Generation Company, LLC  
PSEG Nuclear, LLC

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Facility: Peach Bottom Units 2 & 3

Licensee: Exelon Generation Company, LLC  
PSEG Nuclear, LLC

Attachment 5

Meteorological Data

Facility: Peach Bottom Units 2 & 3

Licensee: Exelon Generation Company, LLC  
PSEG Nuclear, LLC

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Facility: Peach Bottom Units 2 & 3

Licensee: Exelon Generation Company, LLC  
PSEG Nuclear, LLC

Peach Bottom Nuclear Station

Period of Record: January - March 2005

Stability Class - Extremely Unstable - 150Ft-33Ft Delta-T (F)

Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	2	8	0	0	0	0	10
NNE	6	3	1	0	0	0	10
NE	1	0	0	0	0	0	1
ENE	10	3	0	0	0	0	13
E	3	4	0	0	0	0	7
ESE	3	3	0	0	0	0	6
SE	0	3	0	0	0	0	3
SSE	1	0	0	0	0	0	1
S	1	1	1	1	0	0	4
SSW	0	0	3	2	0	0	5
SW	0	0	1	1	0	0	2
WSW	0	2	3	1	0	0	6
W	1	0	1	0	0	0	2
WNW	1	1	1	0	0	0	3
NW	2	0	0	0	0	0	2
NNW	3	3	0	0	0	0	6
Variable	0	0	0	0	0	0	0
Total	34	31	11	5	0	0	81

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



## Peach Bottom Nuclear Station

Period of Record: January - March 2005

Stability Class - Moderately Unstable - 150Ft-33Ft Delta-T (F)

## Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	2	6	1	0	0	0	9
NNE	4	6	0	0	0	0	10
NE	4	0	0	0	0	0	4
ENE	5	0	0	0	0	0	5
E	4	0	0	0	0	0	4
ESE	1	1	0	0	0	0	2
SE	0	3	0	0	0	0	3
SSE	0	0	0	0	0	0	0
S	0	2	1	0	0	0	3
SSW	0	1	2	0	0	0	3
SW	1	0	4	1	0	0	6
WSW	1	0	1	0	0	0	2
W	1	4	6	2	0	0	13
WNW	0	6	10	2	0	0	18
NW	2	4	8	1	0	0	15
NNW	2	11	10	0	0	0	23
Variable	0	0	0	0	0	0	0
Total	27	44	43	6	0	0	120

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 0

Hours of missing stability measurements in all stability classes: 0

## Peach Bottom Nuclear Station

Period of Record: January - March 2005

Stability Class - Slightly Unstable - 150Ft-33Ft Delta-T (F)

## Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	2	4	0	0	0	0	6
NNE	1	2	0	0	0	0	3
NE	1	0	0	0	0	0	1
ENE	1	0	0	0	0	0	1
E	2	0	0	0	0	0	2
ESE	1	1	0	0	0	0	2
SE	0	1	1	0	0	0	2
SSE	0	0	0	0	0	0	0
S	0	1	1	0	0	0	2
SSW	0	1	0	0	0	0	1
SW	0	0	2	0	0	0	2
WSW	0	0	0	0	0	0	0
W	0	4	2	0	0	0	6
WNW	0	2	8	6	0	0	16
NW	0	4	6	3	0	0	13
NNW	1	13	11	1	0	0	26
Variable	0	0	0	0	0	0	0
Total	9	33	31	10	0	0	83

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 0

Hours of missing stability measurements in all stability classes: 0

## Peach Bottom Nuclear Station

Period of Record: January - March 2005  
 Stability Class - Neutral - 150Ft-33Ft Delta-T (F)

## Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	14	41	7	0	0	0	62
NNE	23	31	1	0	0	0	55
NE	27	6	0	0	0	0	33
ENE	17	1	0	0	0	0	18
E	5	2	0	0	0	0	7
ESE	4	16	0	0	0	0	20
SE	8	25	6	0	0	0	39
SSE	4	32	8	0	0	0	44
S	6	7	4	0	0	0	17
SSW	3	5	0	0	0	0	8
SW	1	7	1	0	0	0	9
WSW	6	17	2	0	0	0	25
W	8	15	18	1	0	0	42
WNW	9	21	66	18	0	0	114
NW	8	34	62	39	3	0	146
NNW	16	88	73	17	1	0	195
Variable	0	0	0	0	0	0	0
Total	159	348	248	75	4	0	834

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

## Peach Bottom Nuclear Station

Period of Record: January - March 2005

Stability Class - Slightly Stable - 150Ft-33Ft Delta-T (F)

Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	22	5	1	0	0	0	28
NNE	22	10	0	0	0	0	32
NE	32	13	0	0	0	0	45
ENE	27	1	0	0	0	0	28
E	20	1	0	0	0	0	21
ESE	13	8	0	0	0	0	21
SE	17	19	2	0	0	0	38
SSE	19	23	4	0	0	0	46
S	17	13	9	3	0	0	42
SSW	12	5	0	0	0	0	17
SW	12	5	1	1	0	0	19
WSW	20	30	3	0	0	0	53
W	20	56	13	0	0	0	89
WNW	17	61	11	0	0	0	89
NW	17	64	17	1	0	0	99
NNW	13	41	13	0	0	0	67
Variable	0	0	0	0	0	0	0
Total	300	355	74	5	0	0	734

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

Facility: Peach Bottom Units 2 & 3

Licensee: Exelon Generation Company, LLC  
PSEG Nuclear, LLC

Peach Bottom Nuclear Station

Period of Record: January - March 2005  
Stability Class - Moderately Stable - 150Ft-33Ft Delta-T (F)

Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	3	0	0	0	0	0	3
NNE	2	0	0	0	0	0	2
NE	1	0	0	0	0	0	1
ENE	1	0	0	0	0	0	1
E	1	0	0	0	0	0	1
ESE	3	0	0	0	0	0	3
SE	1	1	0	0	0	0	2
SSE	0	0	0	0	0	0	0
S	5	1	0	0	0	0	6
SSW	6	0	0	0	0	0	6
SW	8	1	0	0	0	0	9
WSW	10	18	0	0	0	0	28
W	15	15	1	0	0	0	31
WNW	10	1	0	0	0	0	11
NW	18	1	0	0	0	0	19
NNW	10	1	0	0	0	0	11
Variable	0	0	0	0	0	0	0
Total	94	39	1	0	0	0	134

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

Facility: Peach Bottom Units 2 & 3

Licensee: Exelon Generation Company, LLC  
PSEG Nuclear, LLC

Peach Bottom Nuclear Station

Period of Record: January - March 2005

Stability Class - Extremely Stable - 150Ft-33Ft Delta-T (F)

Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	2	0	0	0	0	0	2
NNE	0	0	0	0	0	0	0
NE	2	0	0	0	0	0	2
ENE	0	0	0	0	0	0	0
E	2	0	0	0	0	0	2
ESE	1	0	0	0	0	0	1
SE	1	0	0	0	0	0	1
SSE	1	0	0	0	0	0	1
S	0	0	0	0	0	0	0
SSW	1	0	0	0	0	0	1
SW	7	0	0	0	0	0	7
WSW	9	3	0	0	0	0	12
W	24	2	0	0	0	0	26
WNW	13	0	0	0	0	0	13
NW	9	0	0	0	0	0	9
NNW	4	0	0	0	0	0	4
Variable	0	0	0	0	0	0	0
Total	76	5	0	0	0	0	81

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

## Peach Bottom Nuclear Station

Period of Record: January - March 2005

Stability Class - Extremely Unstable - 316Ft-33Ft Delta-T (F)

## Winds Measured at 320 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	1	0	0	0	1
E	0	2	0	0	0	0	2
ESE	0	0	1	0	0	0	1
SE	0	0	2	0	0	0	2
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	2	4	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: 8

## Peach Bottom Nuclear Station

Period of Record: January - March 2005

Stability Class - Moderately Unstable - 316Ft-33Ft Delta-T (F)

## Winds Measured at 320 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	1	0	0	0	1
NE	0	0	1	0	0	0	1
ENE	0	1	1	0	0	0	2
E	0	1	1	0	0	0	2
ESE	0	2	2	0	0	0	4
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	1	0	1
SSW	0	0	0	0	0	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	4	6	0	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: 8



## Peach Bottom Nuclear Station

Period of Record: January - March 2005  
 Stability Class - Slightly Unstable - 316Ft-33Ft Delta-T (F)

## Winds Measured at 320 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	1	0	0	0	1
NE	1	1	0	0	0	0	2
ENE	0	1	2	0	0	0	3
E	0	6	0	1	0	0	7
ESE	0	0	0	1	1	0	2
SE	0	0	2	0	0	0	2
SSE	0	0	0	0	0	0	0
S	0	0	0	0	1	0	1
SSW	0	0	0	1	2	0	3
SW	0	0	0	1	1	1	3
WSW	0	0	1	4	0	0	5
W	0	0	0	0	1	0	1
WNW	0	0	1	2	2	0	5
NW	0	1	0	0	0	0	1
NNW	0	1	1	2	0	0	4
Variable	0	0	0	0	0	0	0
Total	1	10	8	12	8	1	40

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

## Peach Bottom Nuclear Station

Period of Record: January - March 2005  
Stability Class - Neutral - 316Ft-33Ft Delta-T (F)

## Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	3	19	47	29	5	0	103
NNE	6	20	17	12	0	0	55
NE	4	14	17	20	0	0	55
ENE	4	28	33	9	0	0	74
E	6	20	19	2	0	0	47
ESE	3	20	25	4	0	0	52
SE	1	14	32	28	4	0	79
SSE	4	11	22	9	0	0	46
S	0	9	11	8	1	3	32
SSW	1	2	9	5	1	0	18
SW	1	3	7	6	1	0	18
WSW	0	4	13	8	6	0	31
W	0	3	19	22	18	3	65
WNW	1	8	19	42	56	30	156
NW	2	8	37	44	46	36	173
NNW	1	17	89	83	37	14	241
Variable	0	0	0	0	0	0	0
Total	37	200	416	331	175	86	1245

Hours of calm in this stability class: 0  
Hours of missing wind measurements in this stability class: 4  
Hours of missing stability measurements in all stability classes: 8

Facility: Peach Bottom Units 2 & 3

Licensee: Exelon Generation Company, LLC  
PSEG Nuclear, LLC

Peach Bottom Nuclear Station

Period of Record: January - March 2005  
Stability Class - Slightly Stable - 316Ft-33Ft Delta-T (F)

Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	7	3	12	4	0	27
NNE	0	12	7	0	0	0	19
NE	1	9	7	0	0	0	17
ENE	1	18	19	3	0	0	41
E	0	19	18	1	0	0	38
ESE	0	17	14	2	0	0	33
SE	2	12	25	5	2	0	46
SSE	1	10	12	8	0	0	31
S	2	12	21	12	8	1	56
SSW	3	8	9	0	0	0	20
SW	2	5	3	0	1	1	12
WSW	2	5	7	13	3	0	30
W	3	4	21	20	3	0	51
WNW	1	5	26	44	7	0	83
NW	3	4	31	38	6	0	82
NNW	2	9	21	21	10	0	63
Variable	0	0	0	0	0	0	0
Total	24	156	244	179	44	2	649

Hours of calm in this stability class: 0  
Hours of missing wind measurements in this stability class: 6  
Hours of missing stability measurements in all stability classes: 8

## Peach Bottom Nuclear Station

Period of Record: January - March 2005

Stability Class - Moderately Stable - 316Ft-33Ft Delta-T (F)

## Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	2	2	0	0	0	4
NNE	1	3	5	0	0	0	9
NE	1	3	2	0	0	0	6
ENE	0	3	2	0	0	0	5
E	0	5	2	0	0	0	7
ESE	0	3	3	0	0	0	6
SE	0	0	0	0	0	0	0
SSE	0	4	3	0	0	0	7
S	1	8	4	0	1	0	14
SSW	0	5	3	0	0	0	8
SW	3	8	3	3	0	0	17
WSW	2	1	3	7	0	0	13
W	2	5	4	5	1	0	17
WNW	0	1	1	0	1	0	3
NW	0	0	2	0	0	0	2
NNW	1	5	2	1	0	0	9
Variable	0	0	0	0	0	0	0
Total	11	56	41	16	3	0	127

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: 8

## Peach Bottom Nuclear Station

Period of Record: January - March 2005  
 Stability Class - Extremely Stable - 316Ft-33Ft Delta-T (F)

## Winds Measured at 320 Feet

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

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: 8

## Peach Bottom Nuclear Station

Period of Record: April - June 2005

Stability Class - Extremely Unstable - 150Ft-33Ft Delta-T (F)

Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	3	30	2	0	0	0	35
NNE	5	34	2	0	0	0	41
NE	8	21	0	0	0	0	29
ENE	13	4	0	0	0	0	17
E	15	3	0	0	0	0	18
ESE	10	16	0	0	0	0	26
SE	5	21	1	0	0	0	27
SSE	1	15	7	0	0	0	23
S	0	23	15	0	0	0	38
SSW	0	4	2	0	0	0	6
SW	0	1	0	0	0	0	1
WSW	0	3	2	0	0	0	5
W	0	2	5	0	0	0	7
WNW	0	6	5	0	0	0	11
NW	0	5	4	0	0	0	9
NNW	0	24	15	0	0	0	39
Variable	0	0	0	0	0	0	0
Total	60	212	60	0	0	0	332

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

## Peach Bottom Nuclear Station

Period of Record: April - June 2005

Stability Class - Moderately Unstable - 150Ft-33Ft Delta-T (F)

## Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	5	13	3	0	0	0	21
NNE	3	4	2	0	0	0	9
NE	3	0	0	0	0	0	3
ENE	5	0	0	0	0	0	5
E	5	2	0	0	0	0	7
ESE	0	0	0	0	0	0	0
SE	2	3	1	0	0	0	6
SSE	0	2	5	1	0	0	8
S	2	11	4	2	0	0	19
SSW	0	5	1	1	0	0	7
SW	0	1	1	0	0	0	2
WSW	0	1	5	0	0	0	6
W	0	3	7	0	0	0	10
WNW	0	3	2	3	0	0	8
NW	2	3	1	0	0	0	6
NNW	3	23	2	3	0	0	31
Variable	0	0	0	0	0	0	0
Total	30	74	34	10	0	0	148

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 0

Hours of missing stability measurements in all stability classes: 0

## Peach Bottom Nuclear Station

Period of Record: April - June 2005

Stability Class - Slightly Unstable - 150Ft-33Ft Delta-T (F)

Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	7	0	0	0	0	8
NNE	5	0	0	0	0	0	5
NE	1	0	0	0	0	0	1
ENE	0	0	0	0	0	0	0
E	3	0	0	0	0	0	3
ESE	0	0	0	0	0	0	0
SE	0	0	1	0	0	0	1
SSE	0	1	0	1	0	0	2
S	1	7	1	0	0	0	9
SSW	1	3	2	0	0	0	6
SW	0	4	5	0	0	0	9
WSW	0	3	3	0	0	0	6
W	0	3	1	0	0	0	4
WNW	0	6	1	1	0	0	8
NW	1	2	1	0	0	0	4
NNW	0	11	1	1	0	0	13
Variable	0	0	0	0	0	0	0
Total	13	47	16	3	0	0	79

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



## Peach Bottom Nuclear Station

Period of Record: April - June 2005  
 Stability Class - Neutral - 150Ft-33Ft Delta-T (F)

## Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	20	29	8	0	0	0	57
NNE	18	14	0	0	0	0	32
NE	7	1	0	0	0	0	8
ENE	11	1	0	0	0	0	12
E	8	1	0	0	0	0	9
ESE	7	3	0	0	0	0	10
SE	9	14	2	1	0	0	26
SSE	8	27	11	2	0	0	48
S	8	38	6	0	0	0	52
SSW	3	10	2	1	0	0	16
SW	1	9	5	0	0	0	15
WSW	3	15	15	2	0	0	35
W	4	20	15	5	0	0	44
WNW	4	19	20	4	0	0	47
NW	5	16	7	1	0	0	29
NNW	14	30	13	0	0	0	57
Variable	0	0	0	0	0	0	0
Total	130	247	104	16	0	0	497

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

## Peach Bottom Nuclear Station

Period of Record: April - June 2005

Stability Class - Slightly Stable - 150Ft-33Ft Delta-T (F)

Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	35	29	4	0	0	0	68
NNE	22	22	1	0	0	0	45
NE	8	6	0	0	0	0	14
ENE	9	0	0	0	0	0	9
E	16	1	0	0	0	0	17
ESE	26	3	0	0	0	0	29
SE	33	24	3	0	0	0	60
SSE	41	36	4	0	0	0	81
S	44	48	2	0	0	0	94
SSW	19	19	0	0	0	0	38
SW	20	12	2	0	0	0	34
WSW	27	25	2	0	0	0	54
W	24	27	5	0	0	0	56
WNW	19	58	5	0	0	0	82
NW	20	44	7	0	0	0	71
NNW	19	46	5	0	0	0	70
Variable	0	0	0	0	0	0	0
Total	382	400	40	0	0	0	822

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

## Peach Bottom Nuclear Station

Period of Record: April - June 2005

Stability Class - Moderately Stable - 150Ft-33Ft Delta-T (F)

## Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	3	0	0	0	0	0	3
NNE	4	0	0	0	0	0	4
NE	1	0	0	0	0	0	1
ENE	2	0	0	0	0	0	2
E	4	0	0	0	0	0	4
ESE	3	0	0	0	0	0	3
SE	5	0	0	0	0	0	5
SSE	4	0	0	0	0	0	4
S	7	1	0	0	0	0	8
SSW	12	2	0	0	0	0	14
SW	10	7	0	0	0	0	17
WSW	18	40	0	0	0	0	58
W	18	17	0	0	0	0	35
WNW	13	3	0	0	0	0	16
NW	9	6	0	0	0	0	15
NNW	5	3	0	0	0	0	8
Variable	0	0	0	0	0	0	0
Total	118	79	0	0	0	0	197

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 0

Hours of missing stability measurements in all stability classes: 0

## Peach Bottom Nuclear Station

Period of Record: April - June 2005

Stability Class - Extremely Stable - 150Ft-33Ft Delta-T (F)

Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	0	0	0	0
NNE	1	0	0	0	0	0	1
NE	0	0	0	0	0	0	0
ENE	1	0	0	0	0	0	1
E	1	0	0	0	0	0	1
ESE	3	0	0	0	0	0	3
SE	1	0	0	0	0	0	1
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	3	5	0	0	0	0	8
WSW	15	15	0	0	0	0	30
W	10	6	0	0	0	0	16
WNW	6	1	0	0	0	0	7
NW	3	0	0	0	0	0	3
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	46	27	0	0	0	0	73

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

## Peach Bottom Nuclear Station

Period of Record: April - June 2005

Stability Class - Extremely Unstable - 316Ft-33Ft Delta-T (F)

## Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	1	0	0	0	1
NNE	0	0	2	3	0	0	5
NE	0	0	8	8	3	0	19
ENE	0	4	10	7	0	0	21
E	0	13	2	1	0	0	16
ESE	0	6	13	2	0	0	21
SE	0	0	5	4	0	0	9
SSE	0	0	1	1	0	0	2
S	0	0	3	2	0	0	5
SSW	0	0	0	1	0	0	1
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	23	45	29	3	0	100

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 0

Hours of missing stability measurements in all stability classes: 3

## Peach Bottom Nuclear Station

Period of Record: April - June 2005

Stability Class - Moderately Unstable - 316Ft-33Ft Delta-T (F)

## Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	4	2	0	0	0	6
NNE	0	1	2	1	0	0	4
NE	0	1	0	1	0	0	2
ENE	0	4	2	0	0	0	6
E	0	4	1	0	0	0	5
ESE	0	2	4	0	0	0	6
SE	0	1	2	3	0	0	6
SSE	0	0	2	2	0	0	4
S	0	0	2	5	0	0	7
SSW	0	0	2	1	0	0	3
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	1	0	0	1
WNW	0	0	0	0	0	0	0
NW	0	0	1	0	1	0	2
NNW	0	0	2	4	0	0	6
Variable	0	0	0	0	0	0	0
Total	0	17	22	18	1	0	58

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 0

Hours of missing stability measurements in all stability classes: 3

## Peach Bottom Nuclear Station

Period of Record: April - June 2005

Stability Class - Slightly Unstable - 316Ft-33Ft Delta-T (F)

## Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	3	5	1	0	0	9
NNE	0	6	2	0	0	0	8
NE	0	2	0	1	1	0	4
ENE	0	4	2	0	0	0	6
E	0	3	0	0	0	0	3
ESE	0	3	2	0	0	0	5
SE	0	2	3	2	0	0	7
SSE	0	0	4	4	0	0	8
S	0	1	11	9	1	1	23
SSW	0	1	3	0	2	0	6
SW	0	0	2	1	0	0	3
WSW	0	1	2	0	0	0	3
W	0	0	1	2	0	0	3
WNW	0	0	4	5	3	2	14
NW	0	1	3	0	0	0	4
NNW	0	2	15	9	1	3	30
Variable	0	0	0	0	0	0	0
Total	0	29	59	34	8	6	136

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 0

Hours of missing stability measurements in all stability classes: 3

## Peach Bottom Nuclear Station

Period of Record: April - June 2005

Stability Class - Neutral - 316Ft-33Ft Delta-T (F)

## Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	18	18	17	3	0	57
NNE	5	14	10	17	0	0	46
NE	2	13	14	23	4	0	56
ENE	2	14	20	7	2	0	45
E	3	12	20	9	3	1	48
ESE	1	16	19	16	1	0	53
SE	2	8	36	20	2	1	69
SSE	1	8	23	14	5	1	52
S	1	6	40	40	0	0	87
SSW	1	8	22	6	6	0	43
SW	0	4	8	9	4	0	25
WSW	1	7	6	15	19	1	49
W	0	6	14	23	23	7	73
WNW	2	5	13	32	18	6	76
NW	1	9	23	15	5	0	53
NNW	1	30	41	27	5	4	108
Variable	0	0	0	0	0	0	0
Total	24	178	327	290	100	21	940

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 4

Hours of missing stability measurements in all stability classes: 3



Facility: Peach Bottom Units 2 & 3

Licensee: Exelon Generation Company, LLC  
PSEG Nuclear, LLC

Peach Bottom Nuclear Station

Period of Record: April - June 2005  
Stability Class - Slightly Stable - 316Ft-33Ft Delta-T (F)

Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	8	15	24	5	0	53
NNE	0	7	20	7	0	0	34
NE	0	3	10	8	0	0	21
ENE	1	8	4	2	0	0	15
E	0	9	8	2	0	0	19
ESE	0	12	16	5	1	0	34
SE	3	11	18	4	0	2	38
SSE	1	9	18	5	0	0	33
S	5	14	71	22	2	1	115
SSW	2	10	30	6	0	0	48
SW	0	11	21	6	1	0	39
WSW	1	10	16	25	1	0	53
W	2	10	10	29	4	0	55
WNW	1	10	9	28	6	0	54
NW	0	12	18	22	5	1	58
NNW	2	6	15	33	11	1	68
Variable	0	0	0	0	0	0	0
Total	19	150	299	228	36	5	737

Hours of calm in this stability class: 0  
Hours of missing wind measurements in this stability class: 7  
Hours of missing stability measurements in all stability classes: 3

## Peach Bottom Nuclear Station

Period of Record: April - June 2005

Stability Class - Moderately Stable - 316Ft-33Ft Delta-T (F)

## Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	1	1	3	0	0	5
NNE	1	2	2	0	0	0	5
NE	0	4	0	0	0	0	4
ENE	1	2	2	0	0	0	5
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	1	2	2	0	0	0	5
SSE	0	3	2	0	0	0	5
S	0	6	2	0	0	0	8
SSW	0	2	6	0	0	0	8
SW	1	4	2	3	0	0	10
WSW	0	2	3	9	2	0	16
W	1	8	14	6	0	0	29
WNW	1	4	9	11	2	0	27
NW	0	4	9	4	0	0	17
NNW	0	6	7	0	1	0	14
Variable	0	0	0	0	0	0	0
Total	6	50	61	36	5	0	158

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 0

Hours of missing stability measurements in all stability classes: 3

## Peach Bottom Nuclear Station

Period of Record: April - June 2005

Stability Class - Extremely Stable - 316Ft-33Ft Delta-T (F)

## Winds Measured at 320 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	1	0	0	0	1
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	1	0	0	0	0	1
SSW	0	6	0	0	0	0	6
SW	0	2	2	0	0	0	4
WSW	0	1	0	0	0	0	1
W	0	2	1	0	0	0	3
WNW	2	3	4	6	0	0	15
NW	0	1	5	0	0	0	6
NNW	1	1	1	1	0	0	4
Variable	0	0	0	0	0	0	0
Total	3	17	14	7	0	0	41

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 0

Hours of missing stability measurements in all stability classes: 3

## Peach Bottom Nuclear Station

Period of Record: July - September 2005

Stability Class - Extremely Unstable - 150Ft-33Ft Delta-T (F)

Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	7	0	0	0	0	8
NNE	2	3	0	0	0	0	5
NE	7	2	0	0	0	0	9
ENE	24	1	0	0	0	0	25
E	21	1	0	0	0	0	22
ESE	28	8	0	0	0	0	36
SE	6	15	0	0	0	0	21
SSE	2	21	1	0	0	0	24
S	0	15	1	0	0	0	16
SSW	0	3	1	0	0	0	4
SW	0	1	0	0	0	0	1
WSW	0	1	0	0	0	0	1
W	0	5	0	0	0	0	5
WNW	0	1	0	0	0	0	1
NW	0	1	2	0	0	0	3
NNW	2	11	1	0	0	0	14
Variable	0	0	0	0	0	0	0
Total	93	96	6	0	0	0	195

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

## Peach Bottom Nuclear Station

Period of Record: July - September 2005

Stability Class - Moderately Unstable - 150Ft-33Ft Delta-T (F)

## Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	2	10	0	0	0	0	12
NNE	2	4	0	0	0	0	6
NE	5	0	0	0	0	0	5
ENE	4	0	0	0	0	0	4
E	2	0	0	0	0	0	2
ESE	7	0	0	0	0	0	7
SE	5	3	0	0	0	0	8
SSE	3	13	0	0	0	0	16
S	2	8	2	0	0	0	12
SSW	0	8	1	0	0	0	9
SW	0	7	0	0	0	0	7
WSW	0	6	0	0	0	0	6
W	0	6	0	0	0	0	6
WNW	2	6	0	0	0	0	8
NW	1	5	1	0	0	0	7
NNW	1	28	5	0	0	0	34
Variable	0	0	0	0	0	0	0
Total	36	104	9	0	0	0	149

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

## Peach Bottom Nuclear Station

Period of Record: July - September 2005

Stability Class - Slightly Unstable - 150Ft-33Ft Delta-T (F)

Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	8	0	0	0	0	9
NNE	1	1	0	0	0	0	2
NE	6	0	0	0	0	0	6
ENE	2	0	0	0	0	0	2
E	1	0	0	0	0	0	1
ESE	1	1	0	0	0	0	2
SE	3	1	0	0	0	0	4
SSE	0	10	0	0	0	0	10
S	1	7	2	0	0	0	10
SSW	0	3	1	0	0	0	4
SW	0	0	0	0	0	0	0
WSW	0	3	0	0	0	0	3
W	1	0	0	0	0	0	1
WNW	1	2	1	0	0	0	4
NW	3	6	0	0	0	0	9
NNW	2	17	0	0	0	0	19
Variable	0	0	0	0	0	0	0
Total	23	59	4	0	0	0	86

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

## Peach Bottom Nuclear Station

Period of Record: July - September 2005  
 Stability Class - Neutral - 150Ft-33Ft Delta-T (F)

## Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	21	25	1	0	0	0	47
NNE	13	4	0	0	0	0	17
NE	17	0	0	0	0	0	17
ENE	10	0	0	0	0	0	10
E	6	0	0	0	0	0	6
ESE	5	0	0	0	0	0	5
SE	23	13	1	0	0	0	37
SSE	20	34	4	0	0	0	58
S	11	17	4	0	0	0	32
SSW	8	10	2	0	0	0	20
SW	5	15	1	0	0	0	21
WSW	3	11	2	0	0	0	16
W	7	11	0	0	0	0	18
WNW	6	16	3	0	0	0	25
NW	10	21	5	0	0	0	36
NNW	25	50	5	0	0	0	80
Variable	0	0	0	0	0	0	0
Total	190	227	28	0	0	0	445

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

Facility: Peach Bottom Units 2 & 3

Licensee: Exelon Generation Company, LLC  
PSEG Nuclear, LLC

Peach Bottom Nuclear Station

Period of Record: July - September 2005

Stability Class - Slightly Stable - 150Ft-33Ft Delta-T (F)

Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	22	23	2	0	0	0	47
NNE	15	3	1	0	0	0	19
NE	6	0	0	0	0	0	6
ENE	4	0	0	0	0	0	4
E	10	0	0	0	0	0	10
ESE	9	2	0	0	0	0	11
SE	34	15	1	0	0	0	50
SSE	58	86	7	0	0	0	151
S	49	38	3	0	0	0	90
SSW	48	11	1	0	0	0	60
SW	20	14	1	0	0	0	35
WSW	15	14	1	0	0	0	30
W	27	21	0	0	0	0	48
WNW	31	30	1	0	0	0	62
NW	32	37	1	0	0	0	70
NNW	26	29	1	0	0	0	56
Variable	0	0	0	0	0	0	0
Total	406	323	20	0	0	0	749

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



Facility: Peach Bottom Units 2 & 3

Licensee: Exelon Generation Company, LLC  
PSEG Nuclear, LLC

Peach Bottom Nuclear Station

Period of Record: July - September 2005  
Stability Class - Moderately Stable - 150Ft-33Ft Delta-T (F)

Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	0	0	0	0	0	1
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	2	0	0	0	0	0	2
SSE	2	2	0	0	0	0	4
S	8	5	0	0	0	0	13
SSW	21	6	0	0	0	0	27
SW	22	4	0	0	0	0	26
WSW	35	8	0	0	0	0	43
W	43	16	0	0	0	0	59
WNW	29	17	1	0	0	0	47
NW	19	8	0	0	0	0	27
NNW	13	5	0	0	0	0	18
Variable	0	0	0	0	0	0	0
Total	195	71	1	0	0	0	267

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

## Peach Bottom Nuclear Station

Period of Record: July - September 2005

Stability Class - Extremely Stable - 150Ft-33Ft Delta-T (F)

Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	1	0	0	0	0	0	1
SSW	1	0	0	0	0	0	1
SW	20	7	0	0	0	0	27
WSW	64	35	0	0	0	0	99
W	29	21	0	0	0	0	50
WNW	7	2	0	0	0	0	9
NW	1	0	0	0	0	0	1
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	123	65	0	0	0	0	188

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

## Peach Bottom Nuclear Station

Period of Record: July - September 2005

Stability Class - Extremely Unstable - 316Ft-33Ft Delta-T (F)

## Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	1	0	0	0	0	1
ENE	0	3	3	0	0	0	6
E	1	12	7	0	0	0	20
ESE	0	9	15	0	0	0	24
SE	0	0	1	0	0	0	1
SSE	0	0	1	0	0	0	1
S	0	0	1	0	0	0	1
SSW	0	0	0	1	0	0	1
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	1	25	28	1	0	0	55

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 3

Hours of missing stability measurements in all stability classes: 89

## Peach Bottom Nuclear Station

Period of Record: July - September 2005

Stability Class - Moderately Unstable - 316Ft-33Ft Delta-T (F)

## Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	1	0	0	0	0	1
ENE	0	2	1	0	0	0	3
E	0	10	2	0	0	0	12
ESE	0	9	5	0	0	0	14
SE	0	2	2	0	0	0	4
SSE	0	0	4	0	0	0	4
S	0	0	2	0	0	0	2
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	24	16	0	0	0	40

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: 89

## Peach Bottom Nuclear Station

Period of Record: July - September 2005

Stability Class - Slightly Unstable - 316Ft-33Ft Delta-T (F)

## Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	1	0	1	0	0	2
NNE	0	2	0	0	0	0	2
NE	0	1	0	0	0	0	1
ENE	0	4	1	0	0	0	5
E	2	11	0	0	0	0	13
ESE	0	8	3	0	0	0	11
SE	0	3	5	1	0	0	9
SSE	0	1	5	1	0	0	7
S	0	1	10	0	0	0	11
SSW	0	2	1	0	0	0	3
SW	0	0	1	0	0	0	1
WSW	0	1	1	0	0	0	2
W	0	0	2	0	0	0	2
WNW	0	2	0	0	0	0	2
NW	0	1	1	3	0	0	5
NNW	0	2	4	3	0	0	9
Variable	0	0	0	0	0	0	0
Total	2	40	34	9	0	0	85

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 4

Hours of missing stability measurements in all stability classes: 89

## Peach Bottom Nuclear Station

Period of Record: July - September 2005

Stability Class - Neutral - 316Ft-33Ft Delta-T (F)

## Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	5	21	21	21	0	0	68
NNE	4	16	6	5	0	1	32
NE	6	13	2	3	1	0	25
ENE	7	18	3	3	1	0	32
E	5	21	14	2	0	0	42
ESE	4	24	42	14	0	0	84
SE	5	18	29	10	0	0	62
SSE	1	11	33	2	4	0	51
S	2	18	24	13	2	1	60
SSW	1	12	17	5	5	0	40
SW	5	14	14	2	0	0	35
WSW	0	9	8	4	1	0	22
W	1	5	12	9	0	0	27
WNW	1	9	24	5	3	0	42
NW	3	19	28	12	1	1	64
NNW	1	33	55	21	1	0	111
Variable	0	0	0	0	0	0	0
Total	51	261	332	131	19	3	797

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 24

Hours of missing stability measurements in all stability classes: 89

## Peach Bottom Nuclear Station

Period of Record: July - September 2005

Stability Class - Slightly Stable - 316Ft-33Ft Delta-T (F)

## Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	3	12	32	13	0	0	60
NNE	3	15	16	0	1	0	35
NE	6	16	7	0	0	0	29
ENE	5	9	2	0	0	0	16
E	2	19	3	0	0	0	24
ESE	3	32	19	0	0	0	54
SE	3	23	32	9	0	0	67
SSE	0	21	28	30	1	0	80
S	0	18	34	25	3	0	80
SSW	3	15	30	15	2	0	65
SW	4	14	18	5	0	0	41
WSW	0	8	12	5	0	0	25
W	0	9	11	13	1	0	34
WNW	2	7	9	17	5	0	40
NW	2	11	20	19	7	0	59
NNW	2	17	26	21	1	0	67
Variable	0	0	0	0	0	0	0
Total	38	246	299	172	21	0	776

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 3

Hours of missing stability measurements in all stability classes: 89

## Peach Bottom Nuclear Station

Period of Record: July - September 2005

Stability Class - Moderately Stable - 316Ft-33Ft Delta-T (F)

## Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	5	8	2	0	0	16
NNE	2	11	3	1	0	0	17
NE	1	4	3	0	0	0	8
ENE	1	2	0	0	0	0	3
E	0	1	0	0	0	0	1
ESE	0	1	0	0	0	0	1
SE	0	1	0	0	0	0	1
SSE	0	2	0	1	0	0	3
S	1	3	4	3	3	0	14
SSW	2	8	3	3	1	0	17
SW	1	2	3	6	0	0	12
WSW	0	5	11	6	0	0	22
W	2	10	5	0	0	0	17
WNW	2	8	6	7	0	0	23
NW	2	13	7	15	0	0	37
NNW	0	7	8	14	0	0	29
Variable	0	0	0	0	0	0	0
Total	15	83	61	58	4	0	221

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: 89



## Peach Bottom Nuclear Station

Period of Record: July - September 2005

Stability Class - Extremely Stable - 316Ft-33Ft Delta-T (F)

## Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	5	2	0	0	0	8
NNE	0	1	0	0	0	0	1
NE	0	0	0	0	0	0	0
ENE	1	0	0	0	0	0	1
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	2	1	0	0	0	3
SW	0	5	0	0	0	0	5
WSW	0	4	8	0	0	0	12
W	0	5	12	6	0	0	23
WNW	2	4	9	6	0	0	21
NW	0	10	10	3	0	0	23
NNW	0	8	3	0	0	0	11
Variable	0	0	0	0	0	0	0
Total	5	44	45	15	0	0	109

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: 89

Facility: Peach Bottom Units 2 & 3

Licensee: Exelon Generation Company, LLC  
PSEG Nuclear, LLC

Peach Bottom Nuclear Station

Period of Record: October - December 2005

Stability Class - Extremely Unstable - 150Ft-33Ft Delta-T (F)

Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	3	1	0	0	0	0	4
NNE	1	0	0	0	0	0	1
NE	2	0	0	0	0	0	2
ENE	4	0	0	0	0	0	4
E	11	1	0	0	0	0	12
ESE	4	7	0	0	0	0	11
SE	2	4	0	0	0	0	6
SSE	0	2	2	0	0	0	4
S	0	2	5	0	0	0	7
SSW	0	2	6	0	0	0	8
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	2	1	0	0	0	3
WNW	0	2	0	0	0	0	2
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	27	23	14	0	0	0	64

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

## Peach Bottom Nuclear Station

Period of Record: October - December 2005

Stability Class - Moderately Unstable - 150Ft-33Ft Delta-T (F)

## Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	6	0	0	0	0	6
NNE	1	1	0	0	0	0	2
NE	3	0	0	0	0	0	3
ENE	4	0	0	0	0	0	4
E	3	0	0	0	0	0	3
ESE	4	4	0	0	0	0	8
SE	0	4	0	0	0	0	4
SSE	0	3	0	0	0	0	3
S	0	5	3	0	0	0	8
SSW	0	1	1	0	0	0	2
SW	0	2	1	0	0	0	3
WSW	0	2	0	0	0	0	2
W	0	4	7	1	0	0	12
WNW	0	7	4	0	0	0	11
NW	0	6	6	1	0	0	13
NNW	0	8	7	0	0	0	15
Variable	0	0	0	0	0	0	0
Total	15	53	29	2	0	0	99

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

## Peach Bottom Nuclear Station

Period of Record: October - December 2005

Stability Class - Slightly Unstable - 150Ft-33Ft Delta-T (F)

## Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	4	0	0	0	0	4
NNE	0	3	0	0	0	0	3
NE	5	0	0	0	0	0	5
ENE	4	0	0	0	0	0	4
E	2	0	0	0	0	0	2
ESE	0	0	0	0	0	0	0
SE	0	3	1	0	0	0	4
SSE	0	3	0	0	0	0	3
S	0	0	1	0	0	0	1
SSW	0	0	1	0	0	0	1
SW	0	0	0	0	0	0	0
WSW	0	1	2	0	0	0	3
W	0	3	7	4	0	0	14
WNW	0	4	9	0	0	0	13
NW	0	5	11	1	0	0	17
NNW	0	6	3	0	0	0	9
Variable	0	0	0	0	0	0	0
Total	11	32	35	5	0	0	83

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 0

Hours of missing stability measurements in all stability classes: 0

Facility: Peach Bottom Units 2 & 3

Licensee: Exelon Generation Company, LLC  
PSEG Nuclear, LLC

Peach Bottom Nuclear Station

Period of Record: October - December 2005  
Stability Class - Neutral - 150Ft-33Ft Delta-T (F)

Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	15	32	7	0	0	0	54
NNE	14	5	0	0	0	0	19
NE	10	0	0	0	0	0	10
ENE	7	0	0	0	0	0	7
E	7	1	0	0	0	0	8
ESE	6	7	0	0	0	0	13
SE	5	11	15	0	0	0	31
SSE	5	32	6	2	0	0	45
S	2	17	18	2	0	0	39
SSW	3	7	4	0	0	0	14
SW	2	7	2	1	0	0	12
WSW	0	10	6	0	0	0	16
W	0	20	24	4	0	0	48
WNW	2	40	66	3	0	0	111
NW	1	35	87	7	0	0	130
NNW	8	53	28	2	0	0	91
Variable	0	0	0	0	0	0	0
Total	87	277	263	21	0	0	648

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

## Peach Bottom Nuclear Station

Period of Record: October - December 2005

Stability Class - Slightly Stable - 150Ft-33Ft Delta-T (F)

Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	12	22	4	1	0	0	39
NNE	21	3	0	0	0	0	24
NE	35	1	0	0	0	0	36
ENE	22	0	0	0	0	0	22
E	46	5	0	0	0	0	51
ESE	35	4	0	0	0	0	39
SE	28	18	9	0	0	0	55
SSE	23	30	2	1	0	0	56
S	21	19	3	1	0	0	44
SSW	7	10	1	1	0	0	19
SW	6	6	0	0	0	0	12
WSW	12	51	1	0	0	0	64
W	14	69	10	0	0	0	93
WNW	15	87	28	0	0	0	130
NW	22	51	12	0	0	0	85
NNW	21	34	7	0	0	0	62
Variable	0	0	0	0	0	0	0
Total	340	410	77	4	0	0	831

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

## Peach Bottom Nuclear Station

Period of Record: October - December 2005

Stability Class - Moderately Stable - 150Ft-33Ft Delta-T (F)

## Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	2	0	0	0	0	0	2
NNE	2	0	0	0	0	0	2
NE	4	0	0	0	0	0	4
ENE	6	0	0	0	0	0	6
E	13	0	0	0	0	0	13
ESE	17	0	0	0	0	0	17
SE	12	0	0	0	0	0	12
SSE	3	0	0	0	0	0	3
S	5	1	0	0	0	0	6
SSW	11	1	0	0	0	0	12
SW	17	6	0	0	0	0	23
WSW	19	35	0	0	0	0	54
W	14	17	0	0	0	0	31
WNW	7	0	0	0	0	0	7
NW	5	0	0	0	0	0	5
NNW	4	0	0	0	0	0	4
Variable	0	0	0	0	0	0	0
Total	141	60	0	0	0	0	201

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

## Peach Bottom Nuclear Station

Period of Record: October - December 2005

Stability Class - Extremely Stable - 150Ft-33Ft Delta-T (F)

Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	0	0	0	0	0	1
NNE	1	0	0	0	0	0	1
NE	1	0	0	0	0	0	1
ENE	4	0	0	0	0	0	4
E	12	0	0	0	0	0	12
ESE	10	0	0	0	0	0	10
SE	3	0	0	0	0	0	3
SSE	3	0	0	0	0	0	3
S	2	0	0	0	0	0	2
SSW	1	0	0	0	0	0	1
SW	19	9	0	0	0	0	28
WSW	27	7	0	0	0	0	34
W	11	0	0	0	0	0	11
WNW	2	0	0	0	0	0	2
NW	3	0	0	0	0	0	3
NNW	1	0	0	0	0	0	1
Variable	0	0	0	0	0	0	0
Total	101	16	0	0	0	0	117

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



## Peach Bottom Nuclear Station

Period of Record: October - December 2005

Stability Class - Extremely Unstable - 316Ft-33Ft Delta-T (F)

## Winds Measured at 320 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	1	0	1	0	0	2
ESE	0	2	4	0	0	0	6
SE	0	0	1	0	0	0	1
SSE	0	0	1	0	0	0	1
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	3	6	1	0	0	10

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: 15

## Peach Bottom Nuclear Station

Period of Record: October - December 2005

Stability Class - Moderately Unstable - 316Ft-33Ft Delta-T (F)

## Winds Measured at 320 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	1	0	0	0	1
E	0	1	0	1	0	0	2
ESE	0	1	0	0	0	0	1
SE	0	0	1	0	0	0	1
SSE	0	0	0	0	0	0	0
S	0	0	1	1	0	0	2
SSW	0	0	0	1	0	0	1
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	2	3	3	0	0	8

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 4

Hours of missing stability measurements in all stability classes: 15

## Peach Bottom Nuclear Station

Period of Record: October - December 2005

Stability Class - Slightly Unstable - 316Ft-33Ft Delta-T (F)

## Winds Measured at 320 Feet

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

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 3

Hours of missing stability measurements in all stability classes: 15

## Peach Bottom Nuclear Station

Period of Record: October - December 2005

Stability Class - Neutral - 316Ft-33Ft Delta-T (F)

## Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	9	49	33	7	2	101
NNE	0	10	21	7	3	0	41
NE	1	12	16	5	2	0	36
ENE	0	18	4	1	1	0	24
E	3	8	11	8	0	0	30
ESE	0	12	20	4	0	0	36
SE	0	9	25	14	11	0	59
SSE	0	9	24	11	3	1	48
S	0	1	18	14	17	3	53
SSW	0	0	5	7	3	1	16
SW	2	1	10	2	2	1	18
WSW	0	3	7	16	9	0	35
W	0	4	17	34	17	11	83
WNW	0	2	15	80	90	14	201
NW	0	7	24	76	47	11	165
NNW	1	11	32	53	15	3	115
Variable	0	0	0	0	0	0	0
Total	8	116	298	365	227	47	1061

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: 15

## Peach Bottom Nuclear Station

Period of Record: October - December 2005

Stability Class - Slightly Stable - 316Ft-33Ft Delta-T (F)

## Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	6	21	3	0	0	31
NNE	0	5	10	1	0	0	16
NE	0	6	4	0	0	0	10
ENE	0	22	3	0	0	0	25
E	3	12	15	6	1	0	37
ESE	2	18	18	5	4	0	47
SE	2	18	24	4	8	3	59
SSE	3	8	28	7	1	1	48
S	4	14	41	17	2	1	79
SSW	0	8	14	12	1	0	35
SW	2	13	14	6	1	0	36
WSW	0	5	16	23	2	0	46
W	0	2	22	43	17	0	84
WNW	0	7	20	52	23	0	102
NW	0	10	17	30	15	3	75
NNW	2	7	18	10	2	0	39
Variable	0	0	0	0	0	0	0
Total	19	161	285	219	77	8	769

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: 15

## Peach Bottom Nuclear Station

Period of Record: October - December 2005

Stability Class - Moderately Stable - 316Ft-33Ft Delta-T (F)

## Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	2	1	0	0	0	3
NNE	1	0	0	0	0	0	1
NE	1	2	0	0	0	0	3
ENE	1	1	1	0	0	0	3
E	1	3	1	0	0	0	5
ESE	0	5	2	0	0	0	7
SE	1	6	13	1	0	0	21
SSE	0	10	7	0	0	0	17
S	0	9	13	2	0	0	24
SSW	0	9	10	1	0	0	20
SW	1	11	13	2	0	0	27
WSW	1	10	6	3	0	0	20
W	2	2	13	8	4	0	29
WNW	0	5	2	8	0	0	15
NW	0	5	7	2	0	0	14
NNW	1	2	2	0	0	0	5
Variable	0	0	0	0	0	0	0
Total	10	82	91	27	4	0	214

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: 15

## Peach Bottom Nuclear Station

Period of Record: October - December 2005

Stability Class - Extremely Stable - 316Ft-33Ft Delta-T (F)

## Winds Measured at 320 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	0	0	0	0	1
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	0	0	1	0	0	0	1
SSE	0	1	0	0	0	0	1
S	1	1	3	0	0	0	5
SSW	0	5	2	0	0	0	7
SW	0	5	10	2	0	0	17
WSW	0	5	11	1	0	0	17
W	1	5	11	2	0	0	19
WNW	0	2	2	0	0	0	4
NW	1	4	3	0	0	0	8
NNW	0	1	0	0	0	0	1
Variable	0	0	0	0	0	0	0
Total	3	31	43	5	0	0	82

Hours of calm in this stability class: 0

Hours of missing wind measurements in this stability class: 7

Hours of missing stability measurements in all stability classes: 15