PEACH BOTTOM ATOMIC POWER STATION
Unit Numbers 2 and 3
Docket Numbers 50-277 and 50-278
Unit Number 1
Docket Number 50-171
PBAPS Independent Spent Fuel Storage Installation
Docket Number 72-29

RADIOACTIVE EFFLUENT RELEASE REPORT

NO. 51

JANUARY 1, 2008 THROUGH DECEMBER 31, 2008

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

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Technical Concurrences: (for accuracy of information)

Chemistry / Radwaste Manager 4/22/09

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, 2008 through December 31, 2008. 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. Three releases were from RHR heat exchangers, one was from a groundwater tritium plume and one was from the U2 Yard Drain Sump.

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

There were changes made to RW-AA-100 "Process Control Program for Radioactive Waste" in 2008. All changes made were administrative and the changes did not reduce the overall conformance of solidified waste product to the existing criteria for solid wastes.

There were changes made to the ODCM during the 2008 reporting period. A copy of the revised report is attached with this document and included as Appendix B. Each change is identified by markings in the margin of affected pages, indicating the area of the page that was change and the date (month/year) the change was implemented.

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

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Attachment 1

Supplemental Information

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1. Regulatory Limits

A. Noble Gases:

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

B. Iodines, Tritium, Particulates with Half Life >8 days:

1.	≤ 1500	mRem/Yr	- any organ	-	ODCMS 3.8.C.1.b
2.	≤ 15	mRem	- any organ	-	quarterly dose limits ODCMS 3.8.C.3.a
3.	≤ 30	mRem	- any organ	-	yearly dose limits ODCMS 3.8.C.3.b

C. Liquid Effluents

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

D. 40 CFR 190 and 10 CFR 72.104

≤ 25	mRem	- total body	-	ODCMS 3.8.D.1.a
≤ 75	mRem	- thyroid		ODCMS 3.8.D.1.b
≤ 25	mRem	- any other organ		ODCMS 3.8.D.1.c
≤ 3.0	mRem	- from liquid and gaseous effluent		ODCMS 3.8.D.1.d
≤ 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.1a. 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 $\leq$ 2E-04 μCi/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. The activity released is listed as Unidentified in the Attachment 2 Tables. 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. Liquid Effluents:

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, P-32, Sr-89, Sr-90 and gross alpha.

E. 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:	6	5	2	3
Total Time for batch releases (minutes)	468	431	132	354
Maximum time period for batch release (minutes):	125	110	82	260
Average time period for batch release (minutes):	78	86	66	118
Minimum time period for batch release (minutes):	38	62	50	40
Dilution volume (liters):	1.38E+12	2.21E+12	2.79E+12	2.36E+12

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: Five abnormal release sources

A. Liquid:

1. 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 2008. The leak rate range was 0.0438 GPM from January decreasing to 0.0002 GPM throughout the end of the year.

Analysis of Releases

It was estimated that the contaminated water released to the discharge canal for all of 2008 was responsible for 2.94E-03 mRem total body dose (Adult), and 8.19E-03 mRem Critical Organ (Adult GI-LLI) dose. This dose contribution was well below the limits specified in the ODCM.

Samples were analyzed for all the parameters of radioactive effluent releases. Composite liquid radwaste samples counted for tritium and submitted to an offsite vendor laboratory for analysis of Fe-55, P-32, Sr-89, Sr-90 and gross alpha. The maximum concentration from several analyses was used to ensure conservative measures of activity released. 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 – 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 beginning of 2008. The leak rate calculated was 0.0802 gpm to end of January. The 2D RHR heat exchanger was repaired on February 1, 2008.

Analysis of Releases

It was estimated that the contaminated water released to the discharge canal for all of 2008 was responsible 3.76E-04 mRem total body dose (Adult), and 8.91E-04 mRem Critical Organ (Adult GI-LLI) dose. This dose contribution was well below the limits specified in the ODCM.

Samples were analyzed for all the parameters of radioactive effluent releases. Composite liquid radwaste samples counted for tritium and submitted to an offsite vendor laboratory for analysis of Fe-55, P-32, Sr-89, Sr-90 and gross alpha. 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 – 3A Residual Heat Removal (RHR) to High Pressure Service Water (HPSW) leak

On 04/08/2008, 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 3A RHR heat exchanger into the 3A loop of the HPSW system. The 3A RHR continued to be a source of contamination to the end of 2008. The leak rate range was 0.0642 GPM from January decreasing to 0.0035 GPM throughout the end of the year.

Analysis of Releases

It was estimated that the contaminated water released to the discharge canal for all of 2008 was responsible 9.88E-04 mRem total body dose (Adult), and 7.34E-04 mRem Critical Organ (Adult GI-LLI) dose. This dose contribution was well below the limits specified in the ODCM.

Samples were analyzed for all the parameters of radioactive effluent releases. Composite liquid radwaste samples counted for tritium and submitted to an offsite vendor laboratory for analysis of Fe-55, P-32, Sr-89, Sr-90 and gross alpha. 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 – U2 Yard Drain Sump

On January 2, 2008, routine sampling of the Unit 2 Yard Drain Sump showed no gamma activity and was released to the discharge canal. The gamma analysis showed no activity but the tritium was measured to be 1.26E-06 uCi/ml. This tritium was assumed to be the concentration of the January 8, 2008 release.

Analysis of Release

It was estimated that the contaminated water released to the discharge canal at a rate of 23 gpm. With the maximum concentration 1.26E-6 uCi/mL, the water released was responsible for 5.92E-07 total body dose, and 5.92E-07 mRem Critical Organ (Child Liver) dose. This dose contribution was well below the limits specified in the ODCM.

Representative samples were analyzed for gamma activity and tritium. 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 – Ground Water Plume

During 2008, during the sampling and analysis of the Radiological Ground Water Protection Program (RGPP), tritium was measured at several locations around the site. The ground water that has detectable tritium has been determined to discharge into the intake or discharge canal. The highest concentration of tritium was 6.95E-6 uCi/ml. This concentration was assumed to be the concentration of all the ground water that discharged to the discharge canal.

Analysis of Releases

It was estimated that the ground water flowed to the discharge canal at a rate of 175 gpm. With the maximum concentration of 6.95E-06 uCi/ml, the ground water released to the discharge canal was responsible for 1.56E-05 mRem total body dose (Child), and 1.56E-05 mRem Critical Organ dose (Child). This dose contribution was well below the limits specified in the ODCM.

B. Gaseous:

No abnormal releases.

8. Changes to the ODCM:

A revised copy of the ODCM is attached as Appendix B of this document for the 2008 reporting period. Each change is identified by markings in the margin of affected pages, indicating the area of the page that was changed and the date (month/year) the change was implemented.

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. Violations:

A. On September 26, 2008 the Main Stack Flow dropped to less than 10,000 CFM due to the unexpected loss of the E324 MCC feeder breaker at the Main Stack (E324-O-A) and the need to perform the E12 Bus Local Loop Test. This did not comply with ODCM 3.8.C.4.D. Total duration of the non compliance was 2 hrs 53 minutes.

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Attachment 2

Effluent Summary

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Facility: Peach Bottom Units 2 & 3

Licensee: Exelon Generation Company, LLC
PSEG Nuclear, LLC

Attachment 2

Gaseous Effluents - Summation Of All Releases

Period: 2008

Unit: Peach Bottom Units 2 & 3

A. Fission & Activation Gases	Unit	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Est. Total Error %
1. Total Release	Ci	1.61E+02	2.11E+02	1.61E+02	7.39E+01	3.51E+01
2. Average release rate for the period	µCi/sec	2.04E+01	2.68E+01	2.04E+01	9.38E+00	
3. Percent of ODCM limit - Gamma	%	1.26E-01	1.73E-01	6.93E-02	8.13E-02	
- Beta		4.49E-02	6.18E-02	2.58E-02	2.86E-02	
4. Quarterly Gamma Dose	mrad	1.26E-02	1.73E-02	6.93E-03	8.13E-03	
5. Quarterly Beta Dose	mrad	8.98E-03	1.24E-02	5.16E-03	5.72E-03	

B. Iodine						
1. Total iodine - 131	Ci	1.19E-03	1.72E-03	2.83E-03	8.03E-04	1.76E+01
2. Average release rate for period	µCi/sec	1.51E-04	2.18E-04	3.59E-04	1.02E-04	
3. Percent of ODCM limit	%	*	*	*	*	

C. Particulates						
1. Particulates with half-lives > 8 days	Ci	6.81E-03	1.05E-02	1.17E-02	4.13E-03	1.94E+01
2. Average release rate for the period	µCi/sec	8.64E-04	1.33E-03	1.48E-03	5.24E-04	
3. Percent of ODCM limit	%	*	*	*	*	
3. Gross alpha radioactivity	Ci	<LLD	<LLD	<LLD	<LLD	
D. Tritium						
1. Total release	Ci	1.35E+01	<LLD	2.28E+01	6.95E+00	1.11E+01
2. Average release rate for the period	µCi/sec	1.71E+00	<LLD	2.89E+00	8.82E-01	
3. Percent of ODCM limit	%	*	*	*	*	

E. Iodine 131 & 133,Tritium & Particulate					
1. Percent of ODCM limit	%	1.36E-02	5.74E+00	2.86E+00	5.04E-01
2. Quarterly Dose	mrem	2.04E-03	8.61E-01	4.29E-01	7.56E-02

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

Facility: Peach Bottom Units 2 & 3

Licensee: Exelon Generation Company, LLC
PSEG Nuclear, LLC

Attachment 2

Gaseous Effluents for Elevated Release Point - Main Stack

Period: 2008

Unit: Peach Bottom Units 2 & 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
Ar-41	Ci	<LLD	7.50E-01	6.03E-01	1.59E-01	<LLD	<LLD	<LLD	<LLD
Kr-85m	Ci	2.45E+01	2.98E+01	2.91E+01	9.35E+00	<LLD	<LLD	<LLD	<LLD
Kr-87	Ci	1.01E+00	1.49E+00	1.05E+00	1.29E-01	<LLD	<LLD	<LLD	<LLD
Kr-88	Ci	1.71E+01	2.23E+01	2.32E+01	1.31E+00	<LLD	<LLD	<LLD	<LLD
Xe-133	Ci	5.45E+01	6.38E+01	7.13E+01	1.92E+01	<LLD	<LLD	<LLD	<LLD
Xe-135m	Ci	4.51E-01	6.39E-01	<LLD	9.64E-01	<LLD	<LLD	<LLD	<LLD
Xe-135	Ci	8.03E+00	2.30E+00	1.81E+00	3.10E+00	<LLD	<LLD	<LLD	<LLD
Xe-138	Ci	7.81E+00	2.46E+01	8.90E+00	8.38E+00	<LLD	<LLD	<LLD	<LLD
Unidentified	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Total for Period	Ci	1.13E+02	1.46E+02	1.36E+02	4.26E+01	<LLD	<LLD	<LLD	<LLD
2. Iodines									
I-131	Ci	3.90E-04	3.91E-04	4.95E-04	1.88E-04	<LLD	<LLD	<LLD	<LLD
I-133	Ci	8.93E-04	1.07E-03	1.47E-03	3.08E-04	<LLD	<LLD	<LLD	<LLD
I-135	Ci	2.16E-04	1.90E-04	5.23E-04	<LLD	<LLD	<LLD	<LLD	<LLD
Total for Period	Ci	1.50E-03	1.65E-03	2.49E-03	4.96E-04	<LLD	<LLD	<LLD	<LLD
3. Particulates									
Cr-51	Ci	<LLD	<LLD	<LLD	8.13E-06	<LLD	<LLD	<LLD	<LLD
Mn-54	Ci	<LLD	<LLD	9.14E-07	8.36E-07	<LLD	<LLD	<LLD	<LLD
Co-58	Ci	3.03E-07	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Co-60	Ci	3.38E-06	9.59E-06	1.43E-05	9.46E-06	<LLD	<LLD	<LLD	<LLD
Zn-65	Ci	<LLD	<LLD	3.22E-06	<LLD	<LLD	<LLD	<LLD	<LLD
Sr-89	Ci	6.66E-04	5.88E-04	2.56E-04	6.87E-05	<LLD	<LLD	<LLD	<LLD
Sr-90	Ci	2.62E-06	2.66E-06	6.00E-07	8.19E-07	<LLD	<LLD	<LLD	<LLD
Cs-137	Ci	1.01E-05	5.64E-06	1.44E-06	1.24E-06	<LLD	<LLD	<LLD	<LLD
Ba-140	Ci	1.02E-03	6.76E-04	2.33E-04	3.14E-04	<LLD	<LLD	<LLD	<LLD
Ce-141	Ci	5.57E-07	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Am-241	Ci	<LLD	<LLD	<LLD	5.63E-07	<LLD	<LLD	<LLD	<LLD
Total for Period	Ci	1.70E-03	1.28E-03	5.09E-04	4.04E-04	<LLD	<LLD	<LLD	<LLD

Facility: Peach Bottom Units 2 & 3

Licensee: Exelon Generation Company, LLC
PSEG Nuclear, LLC

Attachment 2

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

Period: 2008

Unit: Peach Bottom Units 2 & 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	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-135	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-135m	Ci	<LLD	<LLD	<LLD	<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	<LLD	<LLD	<LLD	<LLD	<LLD
Unidentified	Ci	4.77E+01	6.54E+01	2.51E+01	3.13E+01	<LLD	<LLD	<LLD	<LLD
Total for Period	Ci	4.77E+01	6.54E+01	2.51E+01	3.13E+01	<LLD	<LLD	<LLD	<LLD
2. Iodines									
I-131	Ci	8.04E-04	1.33E-03	2.34E-03	6.15E-04	<LLD	<LLD	<LLD	<LLD
I-133	Ci	2.65E-03	6.05E-03	6.25E-03	2.58E-03	<LLD	<LLD	<LLD	<LLD
I-135	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Total for Period	Ci	3.45E-03	7.38E-03	8.59E-03	3.20E-03	<LLD	<LLD	<LLD	<LLD
3. Particulates									
Co-60	Ci	<LLD	1.06E-05	<LLD	1.41E-05	<LLD	<LLD	<LLD	<LLD
Sr-89	Ci	1.11E-04	9.58E-05	1.13E-04	1.91E-05	<LLD	<LLD	<LLD	<LLD
Ba-140	Ci	5.19E-05	6.06E-05	<LLD	<LLD	<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	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Co-60	Ci	<LLD	<LLD	<LLD	<LLD	<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	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Sr-90	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
0	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
	Ci								
	Ci								
	Ci								
Total for Period	Ci	1.63E-04	1.67E-04	1.13E-04	3.33E-05	<LLD	<LLD	<LLD	<LLD

Facility: Peach Bottom Units 2 & 3

Licensee: Exelon Generation Company, LLC
PSEG Nuclear, LLC

Liquid Effluents - Summation Of All Releases

Period: 2008

Unit: Peach Bottom Units 2 & 3

A. FISSION & ACTIVATION PRODUCTS	Unit	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Est. Total Error %
1. Total Release (not including tritium, gases & alpha)	Ci	1.33E-01	1.11E-02	3.00E-02	8.04E-02	2.11E+01
2. Average diluted concentration during batch discharges for the period	µCi/mL	9.64E-11	5.03E-12	1.08E-11	3.41E-11	
4. Percent of ODCM limit - Whole Body	%	8.43E-02	8.53E-03	1.57E-02	3.45E-02	
- Organ		5.96E-02	3.16E-03	9.08E-03	2.54E-02	

B. TRITIUM						
1. Total Release	Ci	7.46E-01	3.24E-01	7.21E-01	1.01E+00	6.40E+00
2. Average diluted concentration during batch discharges for the period	µCi/mL	5.42E-10	1.46E-10	2.59E-10	4.29E-10	
4. Percent of 10 CFR 20 limit	%	5.42E-05	1.46E-05	2.59E-05	4.29E-05	

C. DISSOLVED & ENTRAINED GASES						
1. Total Release	Ci	3.46E-04	1.77E-04	2.06E-04	4.42E-04	2.11E+01
2. Average diluted concentration during batch discharges for the period	µCi/mL	2.51E-13	8.00E-14	7.40E-14	1.87E-13	
4. Percent of ODCM limit	%	1.26E-07	4.00E-08	3.70E-08	9.35E-08	

D. GROSS ALPHA ACTIVITY						
1. Total release	Ci	4.32E-05	3.12E-06	4.14E-06	6.89E-06	2.30E+01
E. VOLUME OF WASTE RELEASED (prior to dilution)	Liters	6.96E+07	9.35E+07	1.28E+08	9.94E+07	5.00E+00

F. VOLUME OF DILUTION WATER USED DURING BATCH DISCHARGES	Liters	1.38E+12	2.21E+12	2.79E+12	2.36E+12	2.22E+01

Facility: Peach Bottom Units 2 & 3

Licensee: Exelon Generation Company, LLC
PSEG Nuclear, LLC

Attachment 2

Liquid Effluents Release Point - Liquid Radwaste & RHR Leaks

Period: 2008

Unit: Peach Bottom Units 2 & 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
Y-92	Ci	<LLD	9.24E-05	2.83E-04	2.83E-04	<LLD	<LLD	<LLD	<LLD
Co-58	Ci	4.98E-03	3.79E-05	5.71E-05	7.89E-04	<LLD	<LLD	<LLD	<LLD
Co-60	Ci	5.86E-02	8.33E-03	2.50E-02	6.13E-02	4.02E-07	<LLD	<LLD	1.74E-07
Cr-51	Ci	2.12E-02	<LLD	<LLD	7.91E-03	<LLD	<LLD	<LLD	<LLD
Fe-55	Ci	6.46E-03	1.50E-04	2.28E-04	3.90E-04	<LLD	<LLD	<LLD	<LLD
Fe-59	Ci	5.15E-03	1.23E-05	1.25E-05	6.22E-04	<LLD	<LLD	<LLD	<LLD
I-131	Ci	<LLD	2.52E-06	7.73E-06	7.73E-06	<LLD	<LLD	<LLD	<LLD
Mn-54	Ci	2.80E-02	2.11E-03	3.46E-03	6.76E-03	<LLD	<LLD	<LLD	<LLD
Nb-95	Ci	4.51E-04	<LLD	<LLD	6.99E-05	<LLD	<LLD	<LLD	<LLD
Nb-97	Ci	<LLD	<LLD	<LLD	1.61E-05	<LLD	<LLD	<LLD	<LLD
Sr-89	Ci	3.92E-06	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Sr-90	Ci	3.15E-06	<LLD	<LLD	<LLD	<LLD	5.47E-07	<LLD	<LLD
Y-91m	Ci	<LLD	<LLD	<LLD	1.16E-05	<LLD	<LLD	<LLD	<LLD
Zn-65	Ci	6.96E-03	1.39E-04	5.43E-04	1.44E-03	<LLD	<LLD	<LLD	<LLD
Zr-95	Ci	<LLD	<LLD	<LLD	8.22E-05	<LLD	<LLD	<LLD	<LLD
Ba-139	Ci	<LLD	<LLD	<LLD	2.10E-05	<LLD	<LLD	<LLD	<LLD
Cs-134	Ci	<LLD	2.04E-05	3.08E-05	6.76E-05	3.72E-07	1.19E-06	2.27E-07	4.13E-07
Cs-137	Ci	4.57E-04	1.18E-04	1.68E-04	2.91E-04	1.82E-06	2.95E-06	1.01E-06	3.43E-06
Cs-138	Ci	4.47E-04	1.19E-04	1.81E-04	2.31E-04	<LLD	<LLD	<LLD	<LLD
Hf-181	Ci	<LLD	<LLD	<LLD	5.73E-05	<LLD	<LLD	<LLD	<LLD
La-142	Ci	<LLD	<LLD	2.72E-05	4.11E-05	<LLD	<LLD	<LLD	<LLD
Sb-124	Ci	<LLD	<LLD	<LLD	7.40E-05	<LLD	<LLD	<LLD	<LLD
Ag-110m	Ci	<LLD	<LLD	<LLD	1.23E-05	<LLD	<LLD	<LLD	<LLD
Tritium	Ci	7.46E-01	3.23E-01	7.21E-01	8.11E-01	<LLD	2.91E-04	7.16E-05	2.03E-01
Total for Period	Ci	8.79E-01	3.35E-01	7.51E-01	8.91E-01	2.59E-06	2.96E-04	7.28E-05	2.03E-01
Kr-87	Ci	1.87E-04	9.18E-05	1.07E-04	1.37E-04	<LLD	<LLD	<LLD	<LLD
Xe-133	Ci	<LLD	2.98E-05	3.47E-05	5.13E-05	<LLD	<LLD	<LLD	1.40E-05
Xe-135	Ci	<LLD	8.40E-06	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-131m	Ci	<LLD	<LLD	<LLD	1.57E-04	<LLD	<LLD	<LLD	<LLD
Xe-135m	Ci	1.60E-04	4.69E-05	6.44E-05	8.23E-05	<LLD	<LLD	<LLD	<LLD
Total for Period	Ci	3.46E-04	1.77E-04	2.06E-04	4.27E-04	<LLD	<LLD	<LLD	1.40E-05

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Attachment 3

Solid Waste and Irradiated Fuel Shipments

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Facility: Peach Bottom Units 2 & 3 Licensee: Exelon Generation Company, LLC
PSEG Nuclear, LLC

A. SOLID WASTE SHIPPED OF SITE FOR BURIAL OR DISPOSAL (Not irradiated fuel) 01-01-2008-12-31-2008

1. Type of Waste	units	2008	Est. error %
a: spent resin, filters, sludges, evaporator bottoms, etc	M3	9.20E+01	
	Ci	1.19E+03	25
b: dry compressible waste, contaminated equipment, etc.	M3	1.28E+03	
	Ci	4.66E+00	25
c: Irradiated components, control rods, etc.	M3	9.61E-01	
	Ci	1.78E+04	25
d: Other (describe) oil	M3	3.14E+01	
	Ci	1.63E-02	25

2. Estimate of major nuclide composition (by type of waste)

a: spent resin, filters, sludges, evaporator bottoms, etc

nuclide	abundance (no cutoff)	activity (Ci)
H-3	0.012%	1.43E-01
Cr-51	0.000%	3.29E-03
Mn-54	9.024%	1.07E+02
Fe-55	34.781%	4.14E+02
Fe-59	0.000%	3.84E-03
Co-58	0.002%	2.75E-02
Co-60	48.893%	5.82E+02
Ni-63	0.728%	8.67E+00
Zn-65	3.056%	3.64E+01
Nb-95	0.000%	9.02E-04
Cs-134	0.272%	3.23E+00
Cs-137	1.737%	2.07E+01
Ce-141	0.000%	3.01E-04
Ce-144	0.267%	3.18E+00
Pu-238	0.000%	3.80E-03
Pu-241	0.028%	3.36E-01
Cm-242	0.000%	8.25E-04
Cm-243	0.000%	3.75E-05
C-14	0.087%	1.03E+00
Sr-89	0.001%	8.35E-03
Sr-90	0.146%	1.74E+00
Nb-97	0.000%	2.46E-75
Tc-99	0.083%	9.92E-01
Ru-106	0.001%	1.50E-02
Ag-110m	0.879%	1.05E+01
Sb-122	0.000%	1.38E-45
Sb-124	0.000%	6.43E-04
Te-129m	0.000%	2.35E-03
I-131	0.000%	9.26E-10
Ba-140	0.000%	5.73E-07
La-140	0.000%	2.95E-38
Pr-144	0.000%	3.25E-87
Hf-175	0.000%	2.99E-06
Hf-181	0.000%	5.88E-07
Pt-191	0.000%	5.92E-24
Pu-239	0.000%	6.86E-04
Am-241	0.000%	3.27E-03
Cm-244	0.000%	3.61E-03
Totals	100.00%	1.19E+03

b: dry compressible waste, contaminated equipment, etc.

nuclide	abundance (no cutoff)	activity (Ci)
H-3	0.020%	9.37E-04
Cr-51	0.103%	4.80E-03
Mn-54	5.068%	2.37E-01
Fe-55	29.181%	1.36E+00
Fe-59	0.048%	2.23E-03
Co-58	0.125%	5.86E-03
Co-60	58.604%	2.73E+00
Ni-63	1.582%	7.38E-02
Zn-65	1.654%	7.72E-02
Nb-95	0.025%	1.17E-03
Cs-134	0.277%	1.29E-02
Cs-137	2.656%	1.24E-01
Ce-141	0.002%	8.36E-05
Ce-144	0.216%	1.01E-02
Pu-238	0.000%	8.59E-06
Pu-241	0.330%	1.54E-02
Cm-242	0.000%	6.10E-06
Cm-243	0.000%	1.31E-06
C-14	0.076%	3.57E-03
Sr-89	0.001%	5.61E-05
Sr-90	0.013%	5.97E-04
Tc-99	0.006%	2.79E-04
Ag-110m	0.010%	4.75E-04
Pu-239	0.001%	6.75E-05
Am-241	0.000%	2.40E-06
Cm-244	0.000%	8.13E-06
Totals	100.00%	4.66E+00

c: Irradiated components, control rods, etc.

nuclide	abundance (no cutoff)	activity (Ci)
H-3	0.003%	5.17E-01
Mn-54	1.393%	2.47E+02
Fe-55	52.742%	9.36E+03
Fe-59	0.000%	1.67E-09
Co-58	0.026%	4.60E+00
Co-60	40.399%	7.17E+03
Ni-63	5.376%	9.55E+02
Zn-65	0.001%	1.35E-01
Cs-137	0.000%	1.78E-03
Ce-144	0.000%	1.56E-02
Pu-238	0.000%	1.56E-02
Pu-241	0.000%	2.76E-03
Cm-242	0.000%	3.41E-05
C-14	0.009%	1.59E+00
Tc-99	0.000%	8.96E-03
Pu-239	0.000%	4.94E-04
Am-241	0.000%	1.26E-05
Cm-244	0.000%	8.35E-05
I-129	0.000%	9.63E-05
Ni-59	0.026%	4.59E+00
Nb-94	0.000%	1.95E-02
Ta-182	0.025%	4.38E+00
U-235	0.000%	5.47E-08
Totals	100.000%	1.78E+04

d: Other (describe) oil

nuclide	abundance (no cutoff)	activity (Ci)
H-3	95.049%	1.55E-02
Mn-54	0.001%	1.19E-07
Fe-55	1.364%	2.22E-04
Co-60	2.496%	4.07E-04
Ni-63	0.141%	2.31E-05
Zn-65	0.002%	3.24E-07
Cs-137	0.301%	4.90E-05
Ce-144	0.539%	8.79E-05
C-14	0.088%	1.44E-05
Sr-90	0.018%	2.97E-06
Tc-99	0.000%	7.34E-08
Totals	100.00%	1.63E-02

3. Solid Waste Disposition

Number of shipments	Mode of Transportation	Destination
6	highway	Barnwell Waste Mgmt. Facility
14	highway	Energy Solutions (Clive, UT)
28	highway	Energy Solutions (Oak Ridge, TN)
1	highway	Studsvik Processing Facility, LLC

B. IRRADIATED FUEL SHIPMENTS (Disposition)
No shipment of irradiated fuel were made during the reporting period of 2008.

C. Changes to Process Control Program (PCP)

There were changes made to RW-AA-100 "Process Control Program for Radioactive Waste" in 2008. All changes made were administrative and the changes did not reduce the overall conformance of solidified waste product to the existing criteria for solid wastes.

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Attachment 4

Radiological Impact on Man

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1. Radiological Impact on Man

The Annual Radiation Dose Assessment Report for January 1, 2008 to December 31, 2008 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, 2008 to December 31, 2008.

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	4.503E-02	All	1097	SSE	2.252E-01	20	mRad
Noble Gas	Beta – Air Dose	3.22E-02	All	1097	SSE	8.051E-02	40	mRad
Gaseous	Total Body	3.47E-01	Infant	396	E	3.47E+00	10	mrem
Gaseous	Skin	4.68E-01	All	396	E	1.56E+00	30	mrem
Iodine, Particulate & Tritium	Thyroid	1.366E+00	Infant	1097	SSE	4.55E+00	30	mrem
Direct Radiation	Total Body	<LLD	All	1150	SSE	<LLD	22	mrem
Liquid	Total Body	4.291E-03	Adult	Site Boundary		7.152E-02	6	mrem
Liquid	GI-LLI	9.724E-03	Adult	Site Boundary		4.862E-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.

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Attachment 5

Meteorological Data

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Attachment 5

Meteorological Data

The meteorological data can be found in the Annual Radiation Dose Assessment Report for January 1, 2008 through December 31, 2008.

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Peach Bottom Nuclear Station

Period of Record: January - March 2008
Stability Class - Extremely Unstable - 150Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	8	0	0	0	0	8
NNE	0	0	0	0	0	0	0
NE	3	1	0	0	0	0	4
ENE	12	2	0	0	0	0	14
E	10	14	0	0	0	0	24
ESE	2	9	0	0	0	0	11
SE	0	1	1	0	0	0	2
SSE	0	0	3	0	0	0	3
S	0	1	6	0	0	0	7
SSW	0	0	1	0	0	0	1
SW	0	0	0	0	0	0	0
WSW	0	1	0	0	0	0	1
W	0	1	0	0	0	0	1
WNW	0	1	1	0	0	0	2
NW	0	3	1	0	0	0	4
NNW	0	4	1	0	0	0	5
Variable	0	0	0	0	0	0	0
Total	27	46	14	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: 17

Peach Bottom Nuclear Station

Period of Record: January - March 2008
Stability Class - Moderately Unstable - 150Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	12	0	0	0	0	12
NNE	1	0	1	0	0	0	2
NE	1	0	0	0	0	0	1
ENE	2	0	0	0	0	0	2
E	3	1	0	0	0	0	4
ESE	2	0	0	0	0	0	2
SE	0	0	0	0	0	0	0
SSE	0	0	2	0	0	0	2
S	0	2	3	0	0	0	5
SSW	0	0	0	0	0	0	0
SW	0	0	3	0	0	0	3
WSW	0	2	2	0	0	0	4
W	0	4	6	0	0	0	10
WNW	0	1	9	2	0	0	12
NW	0	1	5	2	0	0	8
NNW	0	7	3	0	0	0	10
Variable	0	0	0	0	0	0	0
Total	9	30	34	4	0	0	77

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: 17

Peach Bottom Nuclear Station

Period of Record: January - March 2008
Stability Class - Slightly Unstable - 150Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	1	0	0	0	0	1
NNE	0	0	0	0	0	0	0
NE	3	0	0	0	0	0	3
ENE	2	0	0	0	0	0	2
E	2	1	0	0	0	0	3
ESE	0	2	0	0	0	0	2
SE	0	1	0	0	0	0	1
SSE	1	0	0	0	0	0	1
S	0	1	0	0	0	0	1
SSW	0	0	0	0	0	0	0
SW	0	2	0	0	0	0	2
WSW	0	1	2	0	0	0	3
W	0	5	4	2	0	0	11
WNW	0	2	12	1	0	0	15
NW	0	8	7	1	0	0	16
NNW	0	8	4	0	0	0	12
Variable	0	0	0	0	0	0	0
Total	8	32	29	4	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: 17

Peach Bottom Nuclear Station

Period of Record: January - March 2008
Stability Class - Neutral - 150Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	14	12	1	0	0	0	27
NNE	11	1	0	0	0	0	12
NE	13	1	0	0	0	0	14
ENE	22	0	0	0	0	0	22
E	21	0	0	0	0	0	21
ESE	7	5	0	0	0	0	12
SE	5	20	8	0	0	0	33
SSE	1	15	11	0	0	0	27
S	1	9	5	0	0	0	15
SSW	0	4	5	0	0	0	9
SW	1	10	1	1	0	0	13
WSW	1	9	9	4	0	0	23
W	1	19	27	11	1	0	59
WNW	2	22	52	14	0	0	90
NW	9	42	84	20	0	0	155
NNW	7	41	32	5	0	0	85
Variable	0	0	0	0	0	0	0
Total	116	210	235	55	1	0	617

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: 17

Peach Bottom Nuclear Station

Period of Record: January - March 2008
Stability Class - Slightly Stable - 150Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	20	14	0	0	0	0	34
NNE	32	4	0	0	0	0	36
NE	42	0	0	0	0	0	42
ENE	40	0	0	0	0	0	40
E	46	3	0	0	0	0	49
ESE	38	8	0	0	0	0	46
SE	32	42	10	1	0	0	85
SSE	15	32	16	0	0	0	63
S	20	35	20	2	0	0	77
SSW	14	10	5	1	0	0	30
SW	9	6	4	1	0	0	20
WSW	15	24	3	2	0	0	44
W	19	77	19	1	0	0	116
WNW	25	101	37	0	0	0	163
NW	26	68	29	2	0	0	125
NNW	25	30	10	0	0	0	65
Variable	0	0	0	0	0	0	0
Total	418	454	153	10	0	0	1035

Hours of calm in this stability class: 11
Hours of missing wind measurements in this stability class: 3
Hours of missing stability measurements in all stability classes: 17

Peach Bottom Nuclear Station

Period of Record: January - March 2008
Stability Class - Moderately Stable - 150Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	9	0	0	0	0	0	9
NNE	1	0	0	0	0	0	1
NE	4	0	0	0	0	0	4
ENE	13	0	0	0	0	0	13
E	15	0	0	0	0	0	15
ESE	19	1	0	0	0	0	20
SE	9	1	0	0	0	0	10
SSE	2	0	0	0	0	0	2
S	8	1	0	0	0	0	9
SSW	6	0	0	0	0	0	6
SW	12	5	0	0	0	0	17
WSW	27	12	0	0	0	0	39
W	17	4	0	0	0	0	21
WNW	15	2	0	0	0	0	17
NW	16	0	0	0	0	0	16
NNW	7	0	0	0	0	0	7
Variable	0	0	0	0	0	0	0
Total	180	26	0	0	0	0	206

Hours of calm in this stability class: 6
Hours of missing wind measurements in this stability class: 1
Hours of missing stability measurements in all stability classes: 17

Peach Bottom Nuclear Station

Period of Record: January - March 2008
Stability Class - Extremely Stable - 150Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	1	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	5	0	0	0	0	0	5
ESE	8	0	0	0	0	0	8
SE	2	0	0	0	0	0	2
SSE	2	0	0	0	0	0	2
S	0	0	0	0	0	0	0
SSW	1	0	0	0	0	0	1
SW	1	1	0	0	0	0	2
WSW	9	2	0	0	0	0	11
W	8	0	0	0	0	0	8
WNW	5	0	0	0	0	0	5
NW	3	0	0	0	0	0	3
NNW	2	0	0	0	0	0	2
Variable	0	0	0	0	0	0	0
Total	47	3	0	0	0	0	50

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: 17

Peach Bottom Nuclear Station

Period of Record: January - March 2008
Stability Class - Extremely Unstable - 316Ft-33Ft Delta-T (F)
Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	2	3	0	0	0	5
ESE	0	1	11	2	0	0	14
SE	0	0	2	6	0	0	8
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	3	16	8	0	0	27

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: 17

Peach Bottom Nuclear Station

Period of Record: January - March 2008
Stability Class - Moderately Unstable - 316Ft-33Ft Delta-T (F)
Winds Measured at 320 Feet

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

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: 17

Peach Bottom Nuclear Station

Period of Record: January - March 2008
Stability Class - Slightly Unstable - 316Ft-33Ft Delta-T (F)
Winds Measured at 320 Feet

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

Peach Bottom Nuclear Station

Period of Record: January - March 2008
Stability Class - Neutral - 316Ft-33Ft Delta-T (F)
Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	2	20	24	9	1	0	56
NNE	4	10	15	2	0	0	31
NE	4	12	3	0	0	0	19
ENE	5	7	4	0	0	0	16
E	4	7	9	1	0	0	21
ESE	0	13	27	8	0	0	48
SE	2	8	31	29	1	0	71
SSE	0	4	12	12	0	0	28
S	0	3	13	15	7	2	40
SSW	0	1	7	11	2	0	21
SW	0	2	12	3	3	3	23
WSW	0	1	9	9	2	5	26
W	1	3	16	22	33	23	98
WNW	0	4	16	50	62	18	150
NW	0	6	23	59	52	23	163
NNW	0	28	56	51	46	15	196
Variable	0	0	0	0	0	0	0
Total	22	129	277	281	209	89	1007

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: 17

Peach Bottom Nuclear Station

Period of Record: January - March 2008
Stability Class - Slightly Stable - 316Ft-33Ft Delta-T (F)
Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	3	20	18	5	0	0	46
NNE	2	12	11	2	0	0	27
NE	4	11	4	2	0	0	21
ENE	3	16	6	0	0	0	25
E	9	10	22	9	1	0	51
ESE	1	16	32	6	4	0	59
SE	1	14	21	4	1	1	42
SSE	7	14	23	14	5	1	64
S	5	16	17	41	19	6	104
SSW	4	8	31	9	16	2	70
SW	3	11	12	6	0	0	32
WSW	1	7	11	12	3	3	37
W	4	1	14	35	9	0	63
WNW	2	3	24	52	10	0	91
NW	1	7	34	45	7	2	96
NNW	1	11	28	18	2	0	60
Variable	0	0	0	0	0	0	0
Total	51	177	308	260	77	15	888

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: 17

Peach Bottom Nuclear Station

Period of Record: January - March 2008
Stability Class - Moderately Stable - 316Ft-33Ft Delta-T (F)
Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	2	0	0	0	0	0	2
NNE	0	6	5	0	0	0	11
NE	2	4	2	0	0	0	8
ENE	2	8	5	0	0	0	15
E	0	1	0	0	0	0	1
ESE	1	4	3	0	0	0	8
SE	1	8	2	0	0	0	11
SSE	2	4	11	5	0	0	22
S	2	8	12	2	0	0	24
SSW	1	3	7	1	0	0	12
SW	1	2	8	0	0	0	11
WSW	2	3	0	3	0	0	8
W	1	1	3	3	0	0	8
WNW	0	4	2	1	0	0	7
NW	0	4	3	0	0	0	7
NNW	1	2	3	0	0	0	6
Variable	0	0	0	0	0	0	0
Total	18	62	66	15	0	0	161

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

Peach Bottom Nuclear Station

Period of Record: January - March 2008
Stability Class - Extremely Stable - 316Ft-33Ft Delta-T (F)
Winds Measured at 320 Feet

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

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: 17

Peach Bottom Nuclear Station

Period of Record: April - June 2008
Stability Class - Extremely Unstable - 150Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	4	19	1	0	0	0	24
NNE	13	2	0	0	0	0	15
NE	10	4	0	0	0	0	14
ENE	26	2	0	0	0	0	28
E	22	7	0	0	0	0	29
ESE	10	12	0	0	0	0	22
SE	2	11	2	0	0	0	15
SSE	1	3	1	0	0	0	5
S	0	12	5	0	0	0	17
SSW	0	1	0	0	0	0	1
SW	0	1	0	0	0	0	1
WSW	0	0	0	0	0	0	0
W	0	2	0	0	0	0	2
WNW	0	1	1	0	0	0	2
NW	0	8	3	0	0	0	11
NNW	0	26	4	0	0	0	30
Variable	0	0	0	0	0	0	0
Total	88	111	17	0	0	0	216

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 18
Hours of missing stability measurements in all stability classes: 20

Peach Bottom Nuclear Station

Period of Record: April - June 2008
Stability Class - Moderately Unstable - 150Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	3	10	2	0	0	0	15
NNE	3	2	0	0	0	0	5
NE	8	2	0	0	0	0	10
ENE	6	0	0	0	0	0	6
E	6	1	0	0	0	0	7
ESE	2	3	1	0	0	0	6
SE	0	6	1	0	0	0	7
SSE	0	6	1	0	0	0	7
S	0	7	3	0	0	0	10
SSW	1	1	0	1	0	0	3
SW	0	2	0	0	0	0	2
WSW	0	2	1	0	0	0	3
W	0	4	1	0	0	0	5
WNW	1	6	2	0	0	0	9
NW	1	9	6	4	0	0	20
NNW	1	21	2	0	0	0	24
Variable	0	0	0	0	0	0	0
Total	32	82	20	5	0	0	139

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: 20

Peach Bottom Nuclear Station

Period of Record: April - June 2008
Stability Class - Slightly Unstable - 150Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	3	2	1	0	0	0	6
NNE	3	2	0	0	0	0	5
NE	3	0	0	0	0	0	3
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	0	2	0	0	0	0	2
SSE	0	3	1	0	0	0	4
S	0	3	0	0	0	0	3
SSW	0	0	1	0	0	0	1
SW	0	3	0	0	0	0	3
WSW	1	6	0	0	0	0	7
W	0	4	1	0	0	0	5
WNW	1	3	2	0	0	0	6
NW	0	8	3	0	0	0	11
NNW	3	5	0	0	0	0	8
Variable	0	0	0	0	0	0	0
Total	17	41	9	0	0	0	67

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: 20

Peach Bottom Nuclear Station

Period of Record: April - June 2008
Stability Class - Neutral - 150Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	20	13	7	0	0	0	40
NNE	18	1	0	0	0	0	19
NE	15	0	0	0	0	0	15
ENE	10	2	0	0	0	0	12
E	14	0	0	0	0	0	14
ESE	11	5	0	0	0	0	16
SE	0	18	4	0	0	0	22
SSE	8	28	5	0	0	0	41
S	3	15	8	0	0	0	26
SSW	2	10	4	0	0	0	16
SW	4	11	11	0	0	0	26
WSW	3	19	6	0	0	0	28
W	8	29	6	0	0	0	43
WNW	6	19	10	2	0	0	37
NW	3	40	17	1	0	0	61
NNW	15	18	5	0	0	0	38
Variable	0	0	0	0	0	0	0
Total	140	228	83	3	0	0	454

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: 20

Peach Bottom Nuclear Station

Period of Record: April - June 2008
Stability Class - Slightly Stable - 150Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	24	20	21	0	0	0	65
NNE	20	1	6	0	0	0	27
NE	28	0	0	0	0	0	28
ENE	23	0	0	0	0	0	23
E	31	3	0	0	0	0	34
ESE	27	5	0	0	0	0	32
SE	35	21	0	0	0	0	56
SSE	39	29	4	0	0	0	72
S	36	19	8	0	0	0	63
SSW	21	20	3	0	0	0	44
SW	19	28	6	0	0	0	53
WSW	18	33	0	0	0	0	51
W	22	36	2	0	0	0	60
WNW	19	44	2	0	0	0	65
NW	16	52	12	0	0	0	80
NNW	15	32	5	0	0	0	52
Variable	0	0	0	0	0	0	0
Total	393	343	69	0	0	0	805

Hours of calm in this stability class: 5
Hours of missing wind measurements in this stability class: 29
Hours of missing stability measurements in all stability classes: 20

Peach Bottom Nuclear Station

Period of Record: April - June 2008
Stability Class - Moderately Stable - 150Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	2	0	0	0	0	0	2
NNE	2	0	0	0	0	0	2
NE	2	0	0	0	0	0	2
ENE	5	0	0	0	0	0	5
E	5	0	0	0	0	0	5
ESE	6	0	0	0	0	0	6
SE	6	0	0	0	0	0	6
SSE	4	1	0	0	0	0	5
S	4	3	0	0	0	0	7
SSW	12	0	0	0	0	0	12
SW	25	16	0	0	0	0	41
WSW	30	29	0	0	0	0	59
W	39	24	0	0	0	0	63
WNW	17	5	0	0	0	0	22
NW	9	3	0	0	0	0	12
NNW	7	3	0	0	0	0	10
Variable	0	0	0	0	0	0	0
Total	175	84	0	0	0	0	259

Hours of calm in this stability class: 6
Hours of missing wind measurements in this stability class: 5
Hours of missing stability measurements in all stability classes: 20

Peach Bottom Nuclear Station

Period of Record: April - June 2008
Stability Class - Extremely Stable - 150Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	1	0	0	0	0	0	1
NNE	0	0	0	0	0	0	0
NE	3	0	0	0	0	0	3
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	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	3	0	0	0	0	0	3
SSW	6	0	0	0	0	0	6
SW	32	4	0	0	0	0	36
WSW	42	6	0	0	0	0	48
W	19	1	0	0	0	0	20
WNW	8	0	0	0	0	0	8
NW	3	0	0	0	0	0	3
NNW	2	0	0	0	0	0	2
Variable	0	0	0	0	0	0	0
Total	122	11	0	0	0	0	133

Hours of calm in this stability class: 1
Hours of missing wind measurements in this stability class: 10
Hours of missing stability measurements in all stability classes: 20

Peach Bottom Nuclear Station

Period of Record: April - June 2008
Stability Class - Extremely Unstable - 316Ft-33Ft Delta-T (F)
Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	0	0	0	0	0	0
NNE	0	0	1	1	0	0	2
NE	0	0	0	0	0	0	0
ENE	0	3	1	3	0	0	7
E	0	7	4	4	1	0	16
ESE	0	6	7	6	0	0	19
SE	0	0	4	3	1	0	8
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	2	0	0	0	2
Variable	0	0	0	0	0	0	0
Total	0	16	19	17	2	0	54

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: 20

Peach Bottom Nuclear Station

Period of Record: April - June 2008
Stability Class - Moderately Unstable - 316Ft-33Ft Delta-T (F)
Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	1	6	0	0	0	7
NNE	0	1	0	0	0	0	1
NE	0	2	0	0	0	0	2
ENE	0	4	0	1	0	0	5
E	0	4	5	1	0	1	11
ESE	0	5	4	1	0	1	11
SE	0	1	2	2	1	0	6
SSE	0	0	2	0	0	0	2
S	0	0	2	4	1	0	7
SSW	0	0	3	0	0	0	3
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	2	0	0	2
NNW	0	0	2	3	2	0	7
Variable	0	0	0	0	0	0	0
Total	0	18	26	14	4	2	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: 20

Peach Bottom Nuclear Station

Period of Record: April - June 2008
Stability Class - Slightly Unstable - 316Ft-33Ft Delta-T (F)
Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	2	14	0	0	0	16
NNE	0	2	1	2	1	0	6
NE	1	3	0	0	0	0	4
ENE	1	6	2	1	0	0	10
E	0	7	2	0	0	0	9
ESE	0	4	4	1	0	1	10
SE	0	5	6	0	1	0	12
SSE	0	0	1	2	0	0	3
S	0	0	5	6	2	0	13
SSW	0	0	3	0	0	0	3
SW	0	0	3	0	0	0	3
WSW	0	0	1	2	0	0	3
W	0	0	1	0	0	0	1
WNW	0	0	1	5	0	0	6
NW	0	0	4	1	3	1	9
NNW	0	2	19	8	2	1	32
Variable	0	0	0	0	0	0	0
Total	2	31	67	28	9	3	140

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 20

Peach Bottom Nuclear Station

Period of Record: April - June 2008
Stability Class - Neutral - 316Ft-33Ft Delta-T (F)
Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	14	15	19	7	0	55
NNE	2	17	11	10	8	2	50
NE	3	8	11	1	1	0	24
ENE	3	19	14	9	1	0	46
E	5	18	30	7	6	0	66
ESE	1	12	15	14	3	7	52
SE	0	8	26	11	2	1	48
SSE	0	5	29	8	0	0	42
S	0	12	13	21	6	0	52
SSW	1	4	13	9	4	0	31
SW	1	5	9	13	6	0	34
WSW	0	8	7	28	9	1	53
W	1	9	20	18	3	3	54
WNW	0	9	23	27	7	2	68
NW	0	8	22	30	13	2	75
NNW	0	16	46	27	9	2	100
Variable	0	0	0	0	0	0	0
Total	17	172	304	252	85	20	850

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 20

Peach Bottom Nuclear Station

Period of Record: April - June 2008
Stability Class - Slightly Stable - 316Ft-33Ft Delta-T (F)
Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	0	9	10	4	0	23
NNE	2	2	12	1	1	0	18
NE	0	2	9	0	0	13	24
ENE	1	5	10	10	1	0	27
E	0	10	14	2	2	0	28
ESE	0	14	17	13	1	0	45
SE	2	3	15	3	0	0	23
SSE	1	13	14	4	1	0	33
S	5	12	37	18	13	0	85
SSW	2	15	30	17	3	0	67
SW	3	20	28	14	3	0	68
WSW	2	8	20	23	4	0	57
W	1	7	22	23	3	0	56
WNW	3	6	15	29	4	0	57
NW	4	8	23	40	10	0	85
NNW	5	5	14	22	5	0	51
Variable	0	0	0	0	0	0	0
Total	31	130	289	229	55	13	747

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: 20

Peach Bottom Nuclear Station

Period of Record: April - June 2008
Stability Class - Moderately Stable - 316Ft-33Ft Delta-T (F)
Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	1	1	1	1	0	4
NNE	0	2	2	0	0	0	4
NE	2	1	1	0	0	0	4
ENE	1	1	1	0	0	0	3
E	1	1	1	0	0	0	3
ESE	0	2	0	0	0	0	2
SE	2	4	1	0	0	0	7
SSE	0	5	3	0	0	0	8
S	1	4	0	0	0	0	5
SSW	2	4	1	4	0	0	11
SW	2	9	12	3	0	0	26
WSW	3	8	16	10	1	0	38
W	1	6	14	20	0	0	41
WNW	0	12	3	13	2	0	30
NW	1	3	10	8	0	0	22
NNW	0	2	5	3	0	0	10
Variable	0	0	0	0	0	0	0
Total	16	65	71	62	4	0	218

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: 20

Peach Bottom Nuclear Station

Period of Record: April - June 2008
Stability Class - Extremely Stable - 316Ft-33Ft Delta-T (F)
Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	1	3	1	0	0	0	5
NNE	1	3	2	0	0	0	6
NE	0	2	1	0	0	0	3
ENE	0	1	0	0	0	0	1
E	0	1	0	0	0	0	1
ESE	0	0	0	0	0	0	0
SE	1	1	1	0	0	0	3
SSE	1	0	0	0	0	0	1
S	0	0	4	0	0	0	4
SSW	0	3	2	1	0	0	6
SW	0	0	1	0	0	0	1
WSW	0	1	3	2	0	0	6
W	0	1	10	6	0	0	17
WNW	1	5	4	0	0	0	10
NW	1	6	8	1	0	0	16
NNW	0	4	5	1	0	0	10
Variable	0	0	0	0	0	0	0
Total	6	31	42	11	0	0	90

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: 20

Peach Bottom Nuclear Station

Period of Record: July - September 2008
Stability Class - Extremely Unstable - 150Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	5	6	0	0	0	0	11
NNE	4	0	0	0	0	0	4
NE	4	1	0	0	0	0	5
ENE	9	0	0	0	0	0	9
E	9	1	0	0	0	0	10
ESE	7	2	0	0	0	0	9
SE	7	16	0	0	0	0	23
SSE	2	22	3	0	0	0	27
S	0	4	1	0	0	0	5
SSW	0	2	0	0	0	0	2
SW	0	3	3	0	0	0	6
WSW	0	3	0	0	0	0	3
W	0	0	0	0	0	0	0
WNW	0	1	0	0	0	0	1
NW	1	0	0	0	0	0	1
NNW	5	8	0	0	0	0	13
Variable	0	0	0	0	0	0	0
Total	53	69	7	0	0	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: 11

Peach Bottom Nuclear Station

Period of Record: July - September 2008
Stability Class - Moderately Unstable - 150Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	4	16	0	0	0	0	20
NNE	5	3	0	0	0	0	8
NE	3	0	0	0	0	0	3
ENE	9	0	0	0	0	0	9
E	6	0	0	0	0	0	6
ESE	4	0	0	0	0	0	4
SE	0	3	0	0	0	0	3
SSE	2	16	1	0	0	0	19
S	0	8	0	0	0	0	8
SSW	1	5	0	0	0	0	6
SW	1	4	1	0	0	0	6
WSW	2	4	0	0	0	0	6
W	0	1	0	0	0	0	1
WNW	1	1	0	0	0	0	2
NW	2	11	0	0	0	0	13
NNW	1	23	1	0	0	0	25
Variable	0	0	0	0	0	0	0
Total	41	95	3	0	0	0	139

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: 11

Peach Bottom Nuclear Station

Period of Record: July - September 2008
Stability Class - Slightly Unstable - 150Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	1	6	0	0	0	0	7
NNE	4	0	0	0	0	0	4
NE	4	0	0	0	0	0	4
ENE	0	0	0	0	0	0	0
E	2	0	0	0	0	0	2
ESE	3	0	0	0	0	0	3
SE	1	2	0	0	0	0	3
SSE	0	4	1	0	0	0	5
S	1	3	0	0	0	0	4
SSW	0	4	0	0	0	0	4
SW	2	5	1	0	0	0	8
WSW	1	4	0	0	0	0	5
W	1	1	0	0	0	0	2
WNW	0	1	0	0	0	0	1
NW	3	8	0	0	0	0	11
NNW	1	9	2	0	0	0	12
Variable	0	0	0	0	0	0	0
Total	24	47	4	0	0	0	75

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: 11

Peach Bottom Nuclear Station

Period of Record: July - September 2008
Stability Class - Neutral - 150Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	33	41	1	0	0	0	75
NNE	12	2	0	0	0	0	14
NE	15	0	0	0	0	0	15
ENE	9	0	0	0	0	0	9
E	10	0	0	0	0	0	10
ESE	5	1	0	0	0	0	6
SE	7	9	0	0	0	0	16
SSE	18	28	3	0	0	0	49
S	16	9	0	0	0	0	25
SSW	9	5	0	0	0	0	14
SW	8	19	1	0	0	0	28
WSW	11	12	0	0	0	0	23
W	6	14	0	0	0	0	20
WNW	14	15	2	0	0	0	31
NW	18	34	0	0	0	0	52
NNW	22	36	2	0	0	0	60
Variable	0	0	0	0	0	0	0
Total	213	225	9	0	0	0	447

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

Peach Bottom Nuclear Station

Period of Record: July - September 2008
Stability Class - Slightly Stable - 150Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	38	55	6	1	0	0	100
NNE	11	3	0	0	0	0	14
NE	7	0	0	0	0	0	7
ENE	10	0	0	0	0	0	10
E	5	0	0	0	0	0	5
ESE	18	0	0	0	0	0	18
SE	48	30	0	0	0	0	78
SSE	57	49	1	0	0	0	107
S	46	19	1	0	0	0	66
SSW	33	10	0	0	0	0	43
SW	42	25	1	0	0	0	68
WSW	33	15	0	0	0	0	48
W	32	33	0	0	0	0	65
WNW	35	31	0	0	0	0	66
NW	34	41	3	0	0	0	78
NNW	29	21	3	1	0	0	54
Variable	0	0	0	0	0	0	0
Total	478	332	15	2	0	0	827

Hours of calm in this stability class: 8
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 11

Peach Bottom Nuclear Station

Period of Record: July - September 2008
Stability Class - Moderately Stable - 150Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	0	0	0	0	0	0
NNE	2	0	0	0	0	0	2
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	4	0	0	0	0	0	4
SSE	12	5	0	0	0	0	17
S	17	1	0	0	0	0	18
SSW	17	6	0	0	0	0	23
SW	46	1	0	0	0	0	47
WSW	47	17	0	0	0	0	64
W	36	21	0	0	0	0	57
WNW	26	6	0	0	0	0	32
NW	19	3	0	0	0	0	22
NNW	3	3	0	0	0	0	6
Variable	0	0	0	0	0	0	0
Total	230	63	0	0	0	0	293

Hours of calm in this stability class: 5
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 11

Peach Bottom Nuclear Station

Period of Record: July - September 2008
Stability Class - Extremely Stable - 150Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	8	1	0	0	0	0	9
SW	99	31	0	0	0	0	130
WSW	85	8	0	0	0	0	93
W	18	13	0	0	0	0	31
WNW	4	2	0	0	0	0	6
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	215	55	0	0	0	0	270

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: 11

Peach Bottom Nuclear Station

Period of Record: July - September 2008
Stability Class - Extremely Unstable - 316Ft-33Ft Delta-T (F)
Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	1	4	0	0	0	5
ENE	0	3	5	0	0	0	8
E	0	5	4	0	0	0	9
ESE	0	3	10	2	0	0	15
SE	0	1	3	0	0	0	4
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	13	27	2	0	0	42

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: 11

Peach Bottom Nuclear Station

Period of Record: July - September 2008
Stability Class - Moderately Unstable - 316Ft-33Ft Delta-T (F)
Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	1	6	1	0	0	8
ENE	0	5	0	0	0	0	5
E	0	4	1	0	0	0	5
ESE	0	5	2	0	0	0	7
SE	0	0	3	0	0	0	3
SSE	0	0	2	1	0	0	3
S	0	0	2	1	0	0	3
SSW	0	0	0	1	0	0	1
SW	0	0	0	2	0	0	2
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	1	0	0	0	0	1
Variable	0	0	0	0	0	0	0
Total	0	16	16	7	0	0	39

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: 11

Peach Bottom Nuclear Station

Period of Record: July - September 2008
Stability Class - Slightly Unstable - 316Ft-33Ft Delta-T (F)
Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	0	2	0	0	0	2
NNE	0	1	2	2	0	0	5
NE	0	6	3	1	0	0	10
ENE	1	2	0	1	0	0	4
E	1	5	1	0	0	0	7
ESE	0	3	1	1	0	0	5
SE	0	2	1	3	0	0	6
SSE	0	2	4	3	0	0	9
S	0	1	14	1	2	0	18
SSW	0	2	2	1	0	0	5
SW	0	0	4	2	0	0	6
WSW	0	0	7	0	0	0	7
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	1	1	2	0	0	4
NNW	0	0	8	1	0	0	9
Variable	0	0	0	0	0	0	0
Total	2	25	50	18	2	0	97

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: 11

Peach Bottom Nuclear Station

Period of Record: July - September 2008
Stability Class - Neutral - 316Ft-33Ft Delta-T (F)
Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	9	24	16	6	0	0	55
NNE	9	15	22	23	1	0	70
NE	6	12	7	10	5	0	40
ENE	4	10	5	0	0	0	19
E	12	18	10	2	0	0	42
ESE	7	4	12	16	1	0	40
SE	5	8	11	10	0	0	34
SSE	5	5	15	5	0	0	30
S	4	10	17	25	1	0	57
SSW	1	10	7	3	0	0	21
SW	1	27	19	8	0	0	55
WSW	2	17	17	4	1	0	41
W	2	6	20	2	0	0	30
WNW	2	14	20	9	2	0	47
NW	3	19	27	24	0	0	73
NNW	6	36	57	24	1	1	125
Variable	0	0	0	0	0	0	0
Total	78	235	282	171	12	1	779

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: 11

Peach Bottom Nuclear Station

Period of Record: July - September 2008
Stability Class - Slightly Stable - 316Ft-33Ft Delta-T (F)
Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	13	15	10	0	4	42
NNE	3	14	20	7	10	0	54
NE	5	9	15	4	0	0	33
ENE	4	17	13	3	0	1	38
E	4	19	20	2	0	0	45
ESE	5	12	17	5	0	0	39
SE	5	12	14	3	0	0	34
SSE	5	14	25	14	1	0	59
S	5	26	34	32	3	0	100
SSW	3	15	42	13	1	0	74
SW	4	16	27	13	0	0	60
WSW	1	9	20	12	0	0	42
W	1	6	13	11	0	0	31
WNW	4	5	11	28	4	0	52
NW	2	8	15	38	7	0	70
NNW	2	10	14	14	3	0	43
Variable	0	0	0	0	0	0	0
Total	53	205	315	209	29	5	816

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: 11

Peach Bottom Nuclear Station

Period of Record: July - September 2008
Stability Class - Moderately Stable - 316Ft-33Ft Delta-T (F)
Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	1	11	8	2	0	0	22
NNE	3	1	3	0	0	0	7
NE	2	4	0	0	0	0	6
ENE	1	2	0	0	0	0	3
E	1	1	0	0	0	0	2
ESE	2	1	0	0	0	0	3
SE	0	1	1	0	0	0	2
SSE	2	4	3	0	0	0	9
S	2	4	1	5	0	0	12
SSW	1	13	3	5	1	0	23
SW	3	10	8	3	0	0	24
WSW	3	10	16	7	0	0	36
W	0	8	11	7	0	0	26
WNW	2	5	8	14	5	0	34
NW	1	6	10	16	2	0	35
NNW	4	7	16	6	0	0	33
Variable	0	0	0	0	0	0	0
Total	28	88	88	65	8	0	277

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

Peach Bottom Nuclear Station

Period of Record: July - September 2008
Stability Class - Extremely Stable - 316Ft-33Ft Delta-T (F)
Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	1	9	8	0	0	0	18
NNE	0	3	3	0	0	0	6
NE	0	2	1	0	0	0	3
ENE	0	0	1	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	1	0	0	0	0	0	1
SSW	3	0	0	0	0	0	3
SW	1	1	1	0	0	0	3
WSW	0	3	5	2	1	0	11
W	6	4	3	1	0	0	14
WNW	2	7	2	5	1	0	17
NW	5	5	13	2	0	0	25
NNW	2	14	19	6	0	0	41
Variable	0	0	0	0	0	0	0
Total	22	48	56	16	2	0	144

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: 11

Peach Bottom Nuclear Station

Period of Record: October - December2008
Stability Class - Extremely Unstable - 150Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	4	8	0	0	0	0	12
NNE	6	3	0	0	0	0	9
NE	4	0	0	0	0	0	4
ENE	4	0	0	0	0	0	4
E	6	0	0	0	0	0	6
ESE	0	2	0	0	0	0	2
SE	0	1	0	0	0	0	1
SSE	0	3	3	0	0	0	6
S	0	0	3	0	0	0	3
SSW	0	0	0	0	0	0	0
SW	0	5	0	0	0	0	5
WSW	1	2	2	0	0	0	5
W	0	1	4	0	0	0	5
WNW	0	2	2	0	0	0	4
NW	0	4	1	0	0	0	5
NNW	0	6	5	0	0	0	11
Variable	0	0	0	0	0	0	0
Total	25	37	20	0	0	0	82

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

Peach Bottom Nuclear Station

Period of Record: October - December2008
Stability Class - Moderately Unstable - 150Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	5	9	3	0	0	0	17
NNE	4	3	0	0	0	0	7
NE	6	0	0	0	0	0	6
ENE	6	0	0	0	0	0	6
E	7	0	0	0	0	0	7
ESE	1	0	0	0	0	0	1
SE	0	4	0	0	0	0	4
SSE	0	4	3	0	0	0	7
S	0	2	1	0	0	0	3
SSW	1	3	0	0	0	0	4
SW	0	4	0	0	0	0	4
WSW	0	3	4	0	0	0	7
W	0	2	4	1	0	0	7
WNW	0	5	12	1	0	0	18
NW	3	8	10	0	0	0	21
NNW	0	7	5	0	0	0	12
Variable	0	0	0	0	0	0	0
Total	33	54	42	2	0	0	131

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

Peach Bottom Nuclear Station

Period of Record: October - December2008
Stability Class - Slightly Unstable - 150Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	6	9	2	0	0	0	17
NNE	1	0	0	0	0	0	1
NE	4	0	0	0	0	0	4
ENE	2	0	0	0	0	0	2
E	0	0	0	0	0	0	0
ESE	3	0	0	0	0	0	3
SE	1	1	1	0	0	0	3
SSE	1	2	0	0	0	0	3
S	1	1	1	0	0	0	3
SSW	0	3	1	0	0	0	4
SW	1	0	0	0	0	0	1
WSW	0	2	1	0	0	0	3
W	0	7	7	1	0	0	15
WNW	0	3	11	1	0	0	15
NW	1	2	11	1	2	0	17
NNW	3	3	4	0	0	0	10
Variable	0	0	0	0	0	0	0
Total	24	33	39	3	2	0	101

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

Peach Bottom Nuclear Station

Period of Record: October - December2008
Stability Class - Neutral - 150Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	18	56	23	0	0	0	97
NNE	21	8	0	0	0	0	29
NE	15	0	0	0	0	0	15
ENE	10	0	0	0	0	0	10
E	14	1	0	0	0	0	15
ESE	7	3	0	0	0	0	10
SE	13	22	8	0	0	0	43
SSE	6	47	8	5	0	0	66
S	2	23	23	0	0	0	48
SSW	5	6	5	2	0	0	18
SW	7	7	5	1	0	0	20
WSW	2	14	7	0	0	0	23
W	3	24	50	2	0	0	79
WNW	6	37	51	15	0	0	109
NW	10	43	53	13	1	0	120
NNW	13	29	26	0	0	0	68
Variable	0	0	0	0	0	0	0
Total	152	320	259	38	1	0	770

Hours of calm in this stability class: 5
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 10

Peach Bottom Nuclear Station

Period of Record: October - December2008
Stability Class - Slightly Stable - 150Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	10	27	8	0	0	0	45
NNE	17	3	1	0	0	0	21
NE	14	0	0	0	0	0	14
ENE	20	0	0	0	0	0	20
E	24	0	0	0	0	0	24
ESE	15	3	0	0	0	0	18
SE	37	16	8	0	0	0	61
SSE	22	25	1	0	0	0	48
S	22	26	16	1	0	0	65
SSW	9	12	2	0	0	0	23
SW	21	44	2	0	0	0	67
WSW	16	68	0	0	0	0	84
W	25	69	12	0	0	0	106
WNW	22	58	15	0	0	0	95
NW	14	32	4	0	0	0	50
NNW	18	26	1	0	0	0	45
Variable	0	0	0	0	0	0	0
Total	306	409	70	1	0	0	786

Hours of calm in this stability class: 5
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 10

Peach Bottom Nuclear Station

Period of Record: October - December2008
Stability Class - Moderately Stable - 150Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	2	0	0	0	0	0	2
NNE	2	0	0	0	0	0	2
NE	2	0	0	0	0	0	2
ENE	7	0	0	0	0	0	7
E	7	0	0	0	0	0	7
ESE	5	0	0	0	0	0	5
SE	8	0	0	0	0	0	8
SSE	3	0	0	0	0	0	3
S	4	0	0	0	0	0	4
SSW	10	1	0	0	0	0	11
SW	19	6	0	0	0	0	25
WSW	30	16	0	0	0	0	46
W	19	16	0	0	0	0	35
WNW	12	4	0	0	0	0	16
NW	15	2	0	0	0	0	17
NNW	4	0	0	0	0	0	4
Variable	0	0	0	0	0	0	0
Total	149	45	0	0	0	0	194

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

Peach Bottom Nuclear Station

Period of Record: October - December2008
Stability Class - Extremely Stable - 150Ft-33Ft Delta-T (F)
Winds Measured at 33 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	3	0	0	0	0	0	3
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	4	0	0	0	0	0	4
SSW	3	0	0	0	0	0	3
SW	31	17	0	0	0	0	48
WSW	31	5	0	0	0	0	36
W	19	0	0	0	0	0	19
WNW	8	0	0	0	0	0	8
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	101	22	0	0	0	0	123

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

Peach Bottom Nuclear Station

Period of Record: October - December2008
Stability Class - Extremely Unstable - 316Ft-33Ft Delta-T (F)
Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	1	0	0	0	0	1
ENE	0	3	0	0	0	0	3
E	0	0	1	0	0	0	1
ESE	0	1	4	0	0	0	5
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	5	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: 10

Peach Bottom Nuclear Station

Period of Record: October - December2008
Stability Class - Moderately Unstable - 316Ft-33Ft Delta-T (F)
Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	1	0	0	0	1
ENE	0	0	0	0	0	0	0
E	0	2	0	0	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	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	1	0	0	0	1
Variable	0	0	0	0	0	0	0
Total	0	3	3	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: 10

Peach Bottom Nuclear Station

Period of Record: October - December2008
Stability Class - Slightly Unstable - 316Ft-33Ft Delta-T (F)
Winds Measured at 320 Feet

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

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

Peach Bottom Nuclear Station

Period of Record: October - December2008
Stability Class - Neutral - 316Ft-33Ft Delta-T (F)
Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	5	20	30	50	19	0	124
NNE	2	11	24	16	1	0	54
NE	4	10	8	2	0	0	24
ENE	3	15	10	0	0	0	28
E	9	13	10	3	1	0	36
ESE	5	8	8	5	1	0	27
SE	1	7	19	3	5	1	36
SSE	2	9	24	20	2	2	59
S	0	11	28	22	15	1	77
SSW	0	6	11	5	8	2	32
SW	1	8	13	5	5	1	33
WSW	1	5	14	9	7	0	36
W	0	1	17	33	51	20	122
WNW	2	4	37	47	40	26	156
NW	2	13	33	52	38	17	155
NNW	1	20	18	27	9	0	75
Variable	0	0	0	0	0	0	0
Total	38	161	304	299	202	70	1074

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

Peach Bottom Nuclear Station

Period of Record: October - December2008
Stability Class - Slightly Stable - 316Ft-33Ft Delta-T (F)
Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	3	7	23	8	2	0	43
NNE	6	11	16	8	3	0	44
NE	2	7	6	0	0	0	15
ENE	4	6	5	0	0	0	15
E	4	8	9	3	0	0	24
ESE	6	8	8	5	1	0	28
SE	2	15	14	2	5	0	38
SSE	1	12	32	9	1	1	56
S	1	12	39	25	11	3	91
SSW	3	14	12	9	5	0	43
SW	2	7	15	20	6	1	51
WSW	2	9	18	31	3	0	63
W	1	4	20	77	16	1	119
WNW	1	5	24	24	8	1	63
NW	3	14	24	28	4	0	73
NNW	2	7	17	14	2	0	42
Variable	0	0	0	0	0	0	0
Total	43	146	282	263	67	7	808

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: 10

Peach Bottom Nuclear Station

Period of Record: October - December2008
Stability Class - Moderately Stable - 316Ft-33Ft Delta-T (F)
Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	7	3	0	0	0	10
NNE	0	1	5	0	0	0	6
NE	1	4	1	0	0	0	6
ENE	0	4	0	0	0	0	4
E	0	4	1	0	0	0	5
ESE	0	3	3	1	0	0	7
SE	0	4	1	1	0	0	6
SSE	0	4	9	0	0	0	13
S	0	2	3	0	0	0	5
SSW	0	4	6	2	0	0	12
SW	1	6	5	6	4	0	22
WSW	0	6	12	7	0	0	25
W	1	1	1	3	2	0	8
WNW	0	3	4	9	1	0	17
NW	1	1	8	1	0	0	11
NNW	0	1	8	3	0	0	12
Variable	0	0	0	0	0	0	0
Total	4	55	70	33	7	0	169

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

Peach Bottom Nuclear Station

Period of Record: October - December2008
Stability Class - Extremely Stable - 316Ft-33Ft Delta-T (F)
Winds Measured at 320 Feet

Wind Direction	Wind Speed (in mph) 1-3	4-7	8-12	13-18	19-24	> 24	Total
N	2	7	0	0	0	0	9
NNE	0	1	5	0	0	0	6
NE	1	0	0	0	0	0	1
ENE	1	0	0	0	0	0	1
E	1	1	0	0	0	0	2
ESE	0	0	0	0	0	0	0
SE	1	2	0	0	0	0	3
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	1	0	0	0	0	0	1
SW	0	4	3	1	0	0	8
WSW	0	2	9	1	0	0	12
W	2	3	4	2	0	0	11
WNW	1	1	6	1	0	0	9
NW	0	1	4	0	0	0	5
NNW	0	2	5	0	0	0	7
Variable	0	0	0	0	0	0	0
Total	10	24	36	5	0	0	75

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

Appendix A- ERRATA Data Section

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Facility: Peach Bottom Units 2 & 3

Licensee: Exelon Generation Company, LLC
PSEG Nuclear, LLC

ERRATA DATA Section

The following list contains errors that were previously submitted in the 2007 Radiation Dose Assessment Report No.23 and the 2007 Radioactive Effluent Report No.50 , also attached are the revised pages

Radioactive Effluent Report		
Page # in original report	**Section**	**Error**
12	9.A Liquid	Last sentence omitted, all LLD's were satisfied for 2007
17	Attachment 2	Quarter Gamma Beta Dose, Iodine 131&133, Tritium & particulate Dose Included
18	Attachment 2	Iodine's reported in Particulates section as well as the Iodine's section, however, the total remains correct, iodine's were already subtracted out in the original submission

Dose Assessment Report		
Page # in original report	**Section**	**Error**
1	1.Executive Summary	Maximum Dose for Liquids was changed from 1.89E-02 to 2.59 E-02 (0.43%); Total quantity of Radioactive Material was changed from 1.72E-01 to 7.75E-01 (7.75%)
6	B. Gaseous Pathway model	The year in paragraph 3 was changed to 2007

8. Changes to the ODCM:

   There were no changes to the ODCM for the 2007 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.

   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.

Facility: Peach Bottom Units 2 & 3

Licensee: Exelon Generation Company, LLC
PSEG Nuclear, LLC

Attachment 2

Gaseous Effluents - Summation Of All Releases

Period: 2007

Unit: Peach Bottom Units 2 & 3

A. Fission & Activation Gases	Unit	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Est. Total Error %
1. Total Release	Ci	8.10E+01	1.52E+02	1.89E+02	1.16E+02	3.51E+01
2. Average release rate for the period	µCi/sec	1.03E+01	1.93E+01	2.40E+01	1.47E+01	
3. Percent of ODCM limit - Gamma	%	3.27E-02	1.41E-01	7.49E-02	7.36E-02	
- Beta		1.30E-02	5.02E-02	2.92E-02	2.67E-02	
4. Quarterly Gamma Dose	mrad	3.27E-03	1.41E-02	7.49E-03	7.36E-03	
5. Quarterly Beta Dose	mrad	2.59E-03	1.00E-02	5.84E-03	5.33E-03	

B. Iodine						
1. Total iodine - 131	Ci	1.666E-03	1.950E-03	3.469E-03	1.253E-03	1.76E+01
2. Average release rate for period	µCi/sec	2.113E-04	2.474E-04	4.400E-04	1.590E-04	
3. Percent of ODCM limit	%	*	*	*	*	

C. Particulates						
1. Particulates with half-lives > 8 days	Ci	9.690E-03	1.129E-02	1.508E-02	4.84E-03	1.94E+01
2. Average release rate for the period	µCi/sec	1.229E-03	1.431E-03	1.913E-03	6.14E-04	
3. Percent of ODCM limit	%	*	*	*	*	
3. Gross alpha radioactivity	Ci	<LLD	<LLD	<LLD	<LLD	
D. Tritium						
1. Total release	Ci	8.461E+00	5.844E+00	2.329E+01	1.552E+01	1.11E+01
2. Average release rate for the period	µCi/sec	1.073E+00	7.412E-01	2.955E+00	1.97E+00	
3. Percent of ODCM limit	%	*	*	*	*	

E. Iodine 131 & 133,Tritium & Particulate					
1. Percent of ODCM limit	%	5.403E-03	1.679E+00	7.319E+00	2.834E+00
2. Quarterly Dose	mrem	8.105E-04	2.519E-01	1.098E+00	4.250E-01

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

Facility: Peach Bottom Units 2 & 3

Licensee: Exelon Generation Company, LLC
PSEG Nuclear, LLC

Attachment 2

Gaseous Effluents for Elevated Release Point - Main Stack

Period: 2007

Unit: Peach Bottom Units 2 & 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	1.23E+01	1.70E+01	2.45E+01	1.93E+01	<LLD	<LLD	<LLD	<LLD
Kr-87	Ci	1.12E+00	4.78E-01	1.16E+00	1.48E-01	<LLD	<LLD	<LLD	<LLD
Kr-88	Ci	6.79E+00	1.08E+01	1.49E+01	1.27E+01	<LLD	<LLD	<LLD	<LLD
Xe-133	Ci	1.98E+01	3.16E+01	7.01E+01	3.81E+01	<LLD	<LLD	<LLD	<LLD
Xe-135	Ci	2.46E+00	3.92E+00	3.62E+00	2.20E+00	<LLD	<LLD	<LLD	<LLD
Xe-135m	Ci	2.26E+00	2.35E+00	3.42E+00	1.51E+00	<LLD	<LLD	<LLD	<LLD
Xe-138	Ci	2.43E+01	3.13E+01	4.42E+01	1.47E+01	<LLD	<LLD	<LLD	<LLD
Ar-41	Ci	2.45E-01	7.61E-01	<LLD	2.81E-01	<LLD	<LLD	<LLD	<LLD
Xe-133m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Unidentified	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Total for Period	Ci	6.93E+01	9.83E+01	1.62E+02	8.88E+01	<LLD	<LLD	<LLD	<LLD
2. Iodines									
I-131	Ci	3.25E-04	4.89E-04	6.52E-04	3.16E-04	<LLD	<LLD	<LLD	<LLD
I-133	Ci	7.51E-04	1.20E-03	1.35E-03	4.13E-04	<LLD	<LLD	<LLD	<LLD
I-135	Ci	2.35E-04	6.87E-04	8.88E-04	7.51E-05	<LLD	<LLD	<LLD	<LLD
Total for Period	Ci	1.31E-03	2.38E-03	2.89E-03	8.04E-04	<LLD	<LLD	<LLD	<LLD
3. Particulates									
Mn-54	Ci	<LLD	<LLD	9.80E-06	7.50E-06	<LLD	<LLD	<LLD	<LLD
Co-58	Ci	<LLD	<LLD	1.25E-06	1.36E-06	<LLD	<LLD	<LLD	<LLD
Co-60	Ci	<LLD	5.02E-06	2.90E-05	2.13E-05	<LLD	<LLD	<LLD	<LLD
Zn-65	Ci	<LLD	<LLD	3.21E-06	5.61E-06	<LLD	<LLD	<LLD	<LLD
Sr-89	Ci	6.20E-04	7.58E-04	5.47E-04	1.73E-04	<LLD	<LLD	<LLD	<LLD
Sr-90	Ci	2.13E-06	2.45E-06	1.96E-06	5.50E-07	<LLD	<LLD	<LLD	<LLD
Sb-125	Ci	<LLD	1.54E-06	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Cs-137	Ci	8.93E-06	6.33E-06	4.01E-06	6.29E-06	<LLD	<LLD	<LLD	<LLD
Ba-140	Ci	8.99E-04	6.85E-04	4.11E-04	6.97E-04	<LLD	<LLD	<LLD	<LLD
Ce-141	Ci	<LLD	<LLD	4.29E-07	<LLD	<LLD	<LLD	<LLD	<LLD
La-140	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Cs-134	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD
Total for Period	Ci	1.53E-03	1.46E-03	1.01E-03	9.12E-04	<LLD	<LLD	<LLD	<LLD

EXECUTIVE SUMMARY

In accordance with the reporting requirements of Peach Bottom Offsite Dose Calculation Manual Specifications (ODCMS) Sections 3.8.E.2 and 3.10.3, this report summarizes the radiation doses due to the radioactive effluent releases from Peach Bottom Atomic Power Station Units 2 and 3 for the period January 1, 2007 through December 31, 2007.

The 2007 calculated doses were compared to the appropriate ODCMS and Appendix I Design Objective limits (Table I-1). The maximum offsite total body dose, due to liquid releases was **2.59 E-02 mrem.** The maximum offsite total body dose, due to gaseous releases was **2.06E-01 mrem**.

TABLE I-1 COMPARISON OF THE 2007 CALCULATED DOSES RESULTING FROM PBAPS EFFLUENT RELEASES TO ODCMS LIMITS

CATEGORY		DOSE PATHWAY	MAXIMUM DOSE FROM PBAPS	% of A	ODCMS AND APPENDIX I DESIGN OBJECTIVE ANNUAL LIMITS A
I.		**Liquid Effluents**			
	a.	Dose to total body from all pathways	**2.59E-02**	**0.43%**	6 mrem
	b.	Dose to any organ from all pathways	**2.44E-02**	**0.12%**	20 mrem
	c.	Total quantity of radioactive material, except tritium and dissolved gases	**7.75E-01**	**7.75%**	10 Ci
II.		**Gaseous Effluents ***			
	a.	Gamma air dose	**2.91E-01**	**1.46%**	20 mrad
	b.	Beta air dose	**5.61E-02**	**0.14%**	40 mrad
	c.	Dose to total body of an individual	**2.06E-01**	**2.06%**	10 mrem
	d.	Dose to skin of an individual	**2.73E-01**	**0.91%**	30 mrem
	e.	Dose to any organ (thyroid) from all pathways	**5.48E+00**	**18.27%**	30 mrem
	f.	Total quantity of iodine-131	**8.34E-03**	**0.42%**	2 Ci

* 10CFR50 Appendix I specifies dose from noble gases only for Category II (a, b, c and d). PBAPS doses presented for Category II (c and d) items include noble gas and particulate components.

The annual average X/Q, depleted X/Q and D/Q values were computed for gaseous radioactive effluents from the Unit 2 and Unit 3 off-gas stack and roof vents, using the dispersion methodologies of USNRC Regulatory Guide 1.111 (Ref. 7).

Using GASPAR, two bounding dose calculations were performed for the receptor locations with the highest X/Q from the Unit 2 and Unit 3 roof vents (I54A, 1,300 feet E) and from the Unit 2 and Unit 3 off-gas stack (2068A, 14,520 feet N) (Figures VI-1 and VI-2, respectively). Gaseous release pathways considered included external radiation from the air and ground, inhalation and ingestion of vegetation, meat, and cow's milk. The inhalation and ingestion pathways were evaluated for the adult, teenager, child, and infant age groups. To assure that this analysis was conservative, it was assumed that all pathways existed at these two locations.

In addition to the bounding dose analysis calculation, an analysis for determining the doses from gaseous radioactive effluents to members of the public due to their activities inside the site boundary during 2007 was completed to comply with ODCMS Section 3.10.3. For purposes of this report, the security checkpoint (I14A) located 1,300 feet N of the PBAPS Unit 2 and Unit 3 roof vents was chosen (Figure VI-1). This on-site location was used for measuring inhalation, plume and ground shine doses to the National Guardsmen and State Police. Continuous occupancy was assumed.

Approximately 127 Ci of unidentified gaseous radioactive effluent activity released from PBAPS in 2007 were assigned to Kr-88 for calculating the Gamma Air, Beta Air and Plume doses. Kr-88 has the highest dose factor for gamma air dose, which is normally limiting, therefore the analysis remains conservative.

Appendix B- Revised Copy of the ODCM

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