Constellation

Peach Bottom Atomic Power Station

Document Number: 68

Annual Radioactive Effluent Release Report

Unit Numbers 2 and 3 Docket Numbers 50-277 and 50-278

Unit Number 1 Docket Number 50-171

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1.0 LIST OF ACRONYMS AND DEFINITIONS

1. Alpha Particle (α): A charged particle emitted from the nucleus of an atom having a mass and charge equal in magnitude of a helium nucleus.
2. AREOR: Annual Radiological Environmental Operating Report
3. ARERR: Annual Radioactive Effluent Release Report
4. Abnormal Release: is an unplanned or uncontrolled release of licensed radioactive material from the plant. Abnormal releases may be categorized as either batch or continuous depending on the circumstances.
5. Abnormal Discharge: is an unplanned or uncontrolled release of licensed radioactive material to the unrestricted area. Abnormal discharges may also be categorized as either batch or continuous depending on the circumstances.
6. BWR: Boiling Water Reactor
7. CDE: The committed effective dose equivalent (for internal exposures).
8. cfm: cubic feet per minute
9. Composite Sample: A series of single collected portions (aliquots) analyzed as one sample. The aliquots making up the sample are collected at time intervals that are very short compared to the composite period.
10. Control: A sampling station in a location not likely to be affected by plant effluents due to its distance and/or direction from the Plant.
11. Counting Error: An estimate of the two-sigma uncertainty associated with the sample results based on total counts accumulated.
12. Critical Receptor: Represents the MEMBER(S) of the Public in the Unrestricted Area who because of the combination of age group and existing local dose exposure pathways has the potential to receive the highest dose.
13. Curie (Ci): A measure of radioactivity; equal to 3.7×10^{10} disintegrations per second, or 2.22×10^{12} disintegrations per minute.
14. Direct Radiation Monitoring: The measurement of radiation dose at various distances from the plant is assessed using thermoluminescent dosimeters (TLDs), optically stimulated luminescent dosimeters (OSLDs), and/or pressurized ionization chambers.
15. Flux: The volumetric or mass discharge per unit cross sectional area of medium per unit of time (solids plus pores); called the Darcian flux when applied to water movement (ANSI/ANS 2.17-2010 (R2016)). [1] [2]
16. Grab Sample: A single discrete sample drawn at one point in time.
17. Ground Water: All water in the surface soil, the subsurface soil, or any other subsurface water. Ground water is simply water in the ground regardless of its quality, including saline, brackish, or fresh water. Ground water can be moisture in the ground that is above the regional water table in the unsaturated (or vadose) zone, or ground water can be at and below the water table in the saturated zone (RG 1.21). [3]
18. Indicator: A sampling location that is potentially affected by plant effluents due to its proximity and/or direction from the plant.

19. Ingestion Pathway: The ingestion pathway includes milk, fish, drinking water and garden produce. Also sampled (under special circumstances) are other media such as vegetation or animal products when additional information about radionuclides is needed.
20. ISFSI: Independent Spent Fuel Storage Installation
21. Lower Limit of Detection (LLD): The smallest concentration of radioactive material in a sample that will yield a net count (above system background) that will be detected with 95% probability with a 5% probability of a false conclusion that a blank observation represents "real" signal.
22. LUC: Land Use Census
23. m/s: Meters per second
24. MDA: Minimum Detectable Activity
25. MDC: Minimum Detectable Concentration. Essentially synonymous with MDA for the purposes of radiological monitoring.
26. Mean: The sum of all of the values in a distribution divided by the number of values in the distribution, synonymous with average.
27. Microcurie (µCi): 3.7 x 104 disintegrations per second, or 2.22 x106 disintegrations per minute.
28. millirem (mrem): 1/1000 rem; a unit of radiation dose equivalent in tissue.
29. Milliroentgen (mR): 1/1000 Roentgen; a unit of exposure to X- or gamma radiation.
30. MWe: Megawatts Electric
31. MWTh: Megawatts Thermal
32. N/A: Not Applicable
33. N/D: Not Detectable
34. NEI: Nuclear Energy Institute
35. Nonroutine, planned discharge—An effluent release from a release point that is not defined in the ODCM but that has been planned, monitored, and discharged in accordance with 10 CFR 20.2001.
36. NRC: Nuclear Regulatory Commission
37. ODCM: Offsite Dose Calculation Manual
38. OSLD: Optically Stimulated Luminescence Dosimeter
39. Protected Area: A 10 CFR 73 security term is an area encompassed by physical barriers and to which access is controlled for security purposes. The fenced area immediately surrounding the plant and around ISFSI are commonly classified by the licensee as “Protected areas.” Access to the protected area requires a security badge or escort.
40. PWR: Pressurized Water Reactor
41. RCA: Radiation Controlled Area
42. REC: Radiological Effluent Control
43. REMP: Radiological Environmental Monitoring Program

44. Restricted Area: A 10 CFR 20 defined term where access to which is limited by the licensee for the purpose of protecting individuals against undue risks from exposure to radiation and radioactive materials.
45. TEDE: Total Effective Dose Equivalent (TEDE) means the sum of the effective dose equivalent (for external exposures) and the committed effective dose equivalent (for internal exposures).
46. TLD: Thermoluminescent Dosimeter
47. TRM: Technical Requirements Manual
48. TS: Technical Specification
49. Unrestricted Area: An area, access to which is neither limited nor controlled by the licensee.
50. RHR: Residual Heat Removal
51. BHD: Bottom Head Drain
52. HPSW: High Pressure Service Water

2.0 EXECUTIVE SUMMARY

Peach Bottom Atomic Power Station (PBAPS) Radiological Effluent Control (REC) Program was established to limit the quantities of radioactive material that may be released based on calculated radiation doses or dose rates. Dose to Members of the Public due to radioactive materials released from the plant is limited by Technical Specifications,10 CFR 20, and by 40 CFR 190. Operational doses to the public during 2025 were calculated to be within the limits required by regulation and compared to other sources of radiation dose and pose no health hazard. These doses are summarized and compared to the regulatory limits in Section 2.1 Comparison to Regulatory Limits below.

The Annual Radioactive Effluent Release Report (ARERR) is published per REC requirements and provides data related to plant operation, including: quantities of radioactive materials released in liquid and gaseous effluents; radiation doses to members of the public; solid radioactive waste shipped offsite for processing or direct disposal; and other information as required by site licensing documents.

The gaseous effluent dose assessments for locations from the Land Use Census showed that the critical receptor for Peach Bottom Atomic Power Station, due to airborne releases was to the SW sector at 1500 meters. The maximum annual organ dose calculated for this receptor was 1.53E-03 mrem to the infant thyroid. This value represented 5.08E-03% of the 10 CFR 50, Appendix I dose limits of 30 mrem for two units.

The maximum total body and any organ (liver) doses calculated due to radioactive liquid effluents were 1.99E-04 mrem and 2.00E-04 mrem, respectively to the child.

Solid radioactive waste shipped offsite for processing or direct disposal included 3.82E+01 Curies and 7.02E+02 m^3, shipped in 36 shipments. There were 0 shipments of irradiated fuel from the site.

In addition to monitoring radioactive effluents, PBAPS has a Radiological Environmental Monitoring Program (REMP) that monitors for levels of radiation and radioactive materials in the local environment. Data from the REMP is published in the Annual Radiological Environmental Operating Report (AREOR).

2.1 Comparison to Regulatory Limits

During 2025, all liquid and gaseous radioactive effluents from Peach Bottom Atomic Power Station were well below regulatory limits, as summarized in Table 1 and Table 3.

Table 1, Peach Bottom Atomic Power Station Units 2 and 3 Dose Summary[1]

		Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
Liquid Effluents						
	Limit	**3 mrem**	**3 mrem**	**3 mrem**	**3 mrem**	**6 mrem**
	Total Body Dose[2]	4.17E-05	1.60E-06	9.60E-06	1.46E-04	1.99E-04
	% Of Limit	1.39E-03	5.34E-05	3.20E-04	4.85E-03	3.31E-03
	Limit	**10 mrem**	**10 mrem**	**10 mrem**	**10 mrem**	**20 mrem**
	Maximum Organ Dose[3]	4.22E-05	2.06E-06	1.02E-05	1.45E-04	2.00E-04
	% Of Limit	4.22E-04	2.06E-05	1.02E-04	1.45E-03	1.00E-03
Gaseous Effluents						
	Limit	**10 mrad**	**10 mrad**	**10 mrad**	**10 mrad**	**20 mrad**
	Gamma Air Dose[4]	7.19E-03	<LLD	<LLD	1.08E-02	1.80E-02
	% Of Limit	7.19E-02	N/A	N/A	1.08E-01	9.00E-02
	Limit	**20 mrad**	**20 mrad**	**20 mrad**	**20 mrad**	**40 mrad**
	Beta Air Dose[5]	4.87E-03	<LLD	<LLD	7.55E-03	1.24E-02
	% Of Limit	2.44E-02	N/A	N/A	3.78E-02	3.10E-02
	Limit	**5 mrem**	**5 mrem**	**5 mrem**	**5 mrem**	**10 mrem**
	NG Total Body Dose[6]	6.95E-03	<LLD	<LLD	1.05E-02	1.74E-02
	% Of Limit	1.39E-01	N/A	N/A	2.10E-01	1.74E-01
	Limit	**15 mrem**	**15 mrem**	**15 mrem**	**15 mrem**	**30 mrem**
	NG Skin Dose[7]	9.03E-03	<LLD	<LLD	1.39E-02	2.29E-02
	% Of Limit	6.02E-02	N/A	N/A	9.27E-02	7.63E-02
	Limit	**15 mrem**	**15 mrem**	**15 mrem**	**15 mrem**	**30 mrem**
	Maximum Organ Dose[8]	2.91E-04	2.13E-04	2.57E-04	7.65E-04	1.53E-03
	% Of Limit	1.94E-03	1.42E-03	1.71E-03	5.10E-03	5.08E-03

[1] Table 1 demonstrates compliance with 10 CFR Part 50, App. I Limits. C-14 dose is not included in this table but is included in Table 2 doses.
[2] Liquid/ Child in mrem
[3] Liquid Child Liver in mrem
[4] SW-1500m / All Age Groups in mrem
[5] SSE 1100m / All Age Groups in mrem
[6] SW 1500 / All Age Groups in mrem
[7] SSE 1100m / All Age Groups in mrem
[8] SW 1500m / Infant Thyroid in mrem

Table 2, Total Annual Offsite-Dose Comparison to 40 CFR 190 Limits for PBAPS[1]

	Whole Body	**Thyroid**	**Max Other Organ[4]**
Gaseous[2] (mrem)	1.82E-02	1.89E-02	2.37E-02
Carbon-14 (mrem)	1.75E-02	1.75E-02	8.21E-02
Liquid (mrem)	1.98E-04	1.98E-04	2.00E-04
Direct Shine (mrem)	0	0	0
Other Nearby Facilities[3] (mrem)	0	0	0
Total Site Dose (mrem)	**3.60E-02**	**3.66E-02**	**1.06E-01**
Limit (mrem)	**25**	**75**	**25**
% of Limit	1.44E-01	4.89E-02	4.24E-01

[1] Table 2 is a summation of Units to show compliance with 40 CFR Part 190 Limits.
[2] Gaseous dose values in this table include organ dose from Noble Gas, Iodine, Tritium, and Particulates.
[3] Other fuel cycle sources within 5 miles of the site are considered in this analysis.
[4] Max Other organ was Bone for C-14 and Liver for Liquid. Gaseous was the sum Iodine, Tritium, and Particulates Liver dose and Noble Gas Skin dose.

3.0 INTRODUCTION

3.1 About Nuclear Power

Commercial nuclear power plants are generally classified as either Boiling Water Reactors (BWRs) or Pressurized Water Reactors (PWRs), based on their design. A BWR includes a single coolant system where water used as reactor coolant boils as it passes through the core and the steam generated is used to turn the turbine generator for power production. A PWR, in contrast, includes two separate water systems: radioactive reactor coolant and a secondary system. Reactor coolant is maintained under high pressure, preventing boiling. The high-pressure coolant is passed through a heat exchanger called a steam generator where the secondary system water is boiled, and the steam is used to turn the turbine generator for power production.

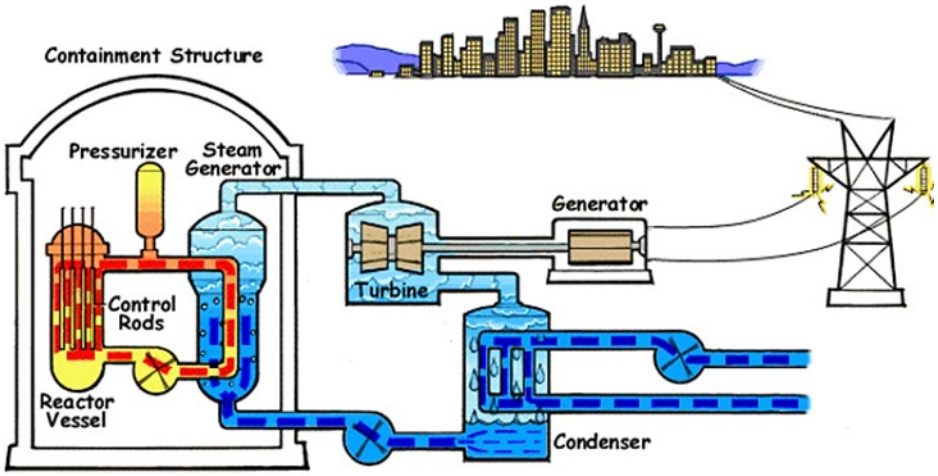

Figure 1, Pressurized Water Reactor (PWR) **[4]**

3.1 (Continued)

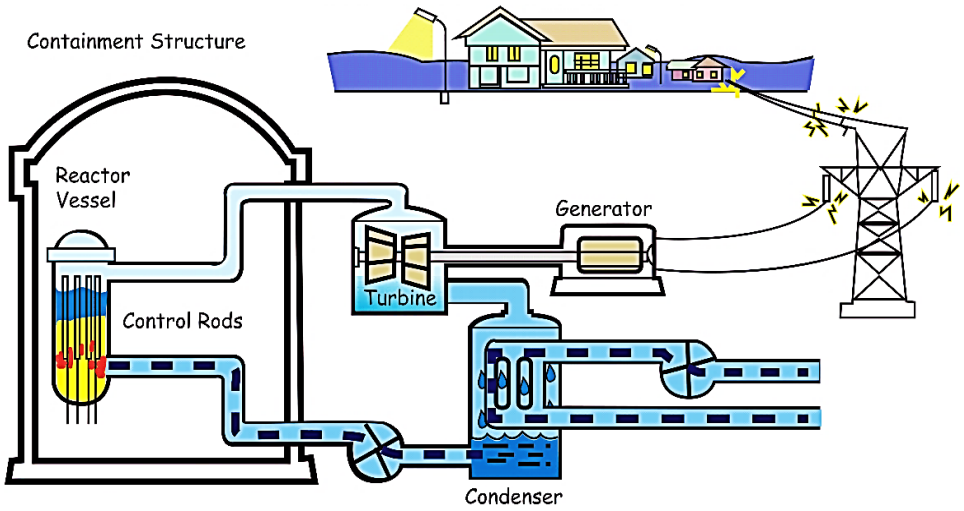

Figure 2, Boiling Water Reactor (BWR) **[5]**

Electricity is generated by a nuclear power plant similarly to the way that electricity is generated at other conventional types of power plants, such as those powered by coal or natural gas. Water is boiled to generate steam; the steam spins a turbine that is attached to a generator and the steam is condensed back into water to be returned to the boiler. What makes nuclear power different from these other types of power plants is that the heat is generated by fission and decay reactions occurring within and around the core containing fissionable uranium.

Nuclear fission occurs when certain nuclides (primarily U-233, U-235, or Pu-239) absorb a neutron and break into several smaller nuclides (called fission products) as well as producing some additional neutrons.

Fission results in production of radioactive materials including gases and solids that must be contained to prevent release or treated prior to release. These effluents are generally treated by filtration and/or hold-up prior to release. Releases are generally monitored by sampling and by continuously indicating radiation monitors. The effluent release data is used to calculate doses to ensure that doses to the public due to plant operation remains within required limits.

3.2 About Radiation Dose

Ionizing radiation, including alpha, beta, and gamma radiation from radioactive decay, has enough energy to break chemical bonds in tissues and damages tissue or genetic material. The amount of ionization that will be generated by a given exposure to ionizing radiation is quantified as dose. Radiation dose is generally reported in units of millirem (mrem) in the US.

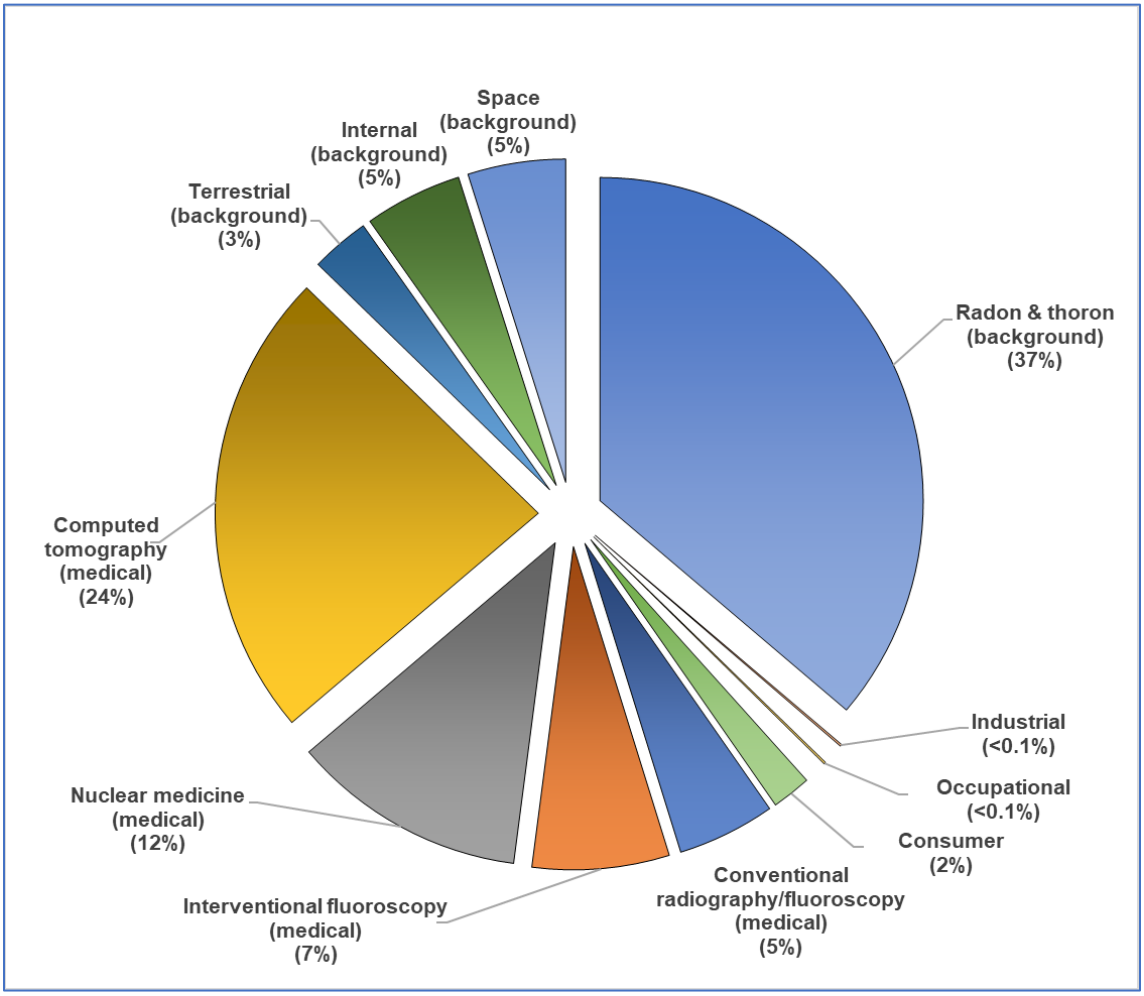

Figure 3, Sources of Radiation Exposure (NCRP Report No. 160) **[6]**

3.2 (Continued)

The National Council on Radiation Protection (NCRP) has evaluated the population dose for the US and determined that the average individual is exposed to approximately 620 mrem per year [6]. There are many sources for radiation dose, ranging from natural background sources to medical procedures, air travel, and industrial processes. Approximately half (310 mrem) of the average exposure is due to natural sources of radiation including exposure to radon, cosmic radiation, and internal radiation and terrestrial due to naturally occurring radionuclides. The remaining 310 mrem of exposure is due to man-made sources of exposure, with the most significant contributors being medical (48% of total mrem per year) due to radiation used in various types of medical scans and treatments. Of the remaining 2% of dose, most is due to consumer activities such as air travel, smoking cigarettes, and building materials. A small fraction of this 2% is due to industrial activities including the generation of nuclear power.

Readers that are curious about common sources and effects of radiation dose that they may encounter can find excellent sources of information from the Health Physics Society, including the Radiation Fact Sheets [7], and from the US Nuclear Regulatory Commission website [8].

3.3 About Dose Calculation

Concentrations of radioactive material in the environment resulting from plant operations are very small and it is not possible to determine doses directly using measured activities of environmental samples. To overcome this, dose calculations based on measured activities of effluent streams are used to model the dose impact for Members of the Public due to plant operation and effluents. There are several mechanisms that can result in dose to a Member of the Public, including: Ingestion of radionuclides in food or water; Inhalation of radionuclides in air; Immersion in a plume of noble gases; and Direct Radiation from the ground, the plant or from an elevated plume.

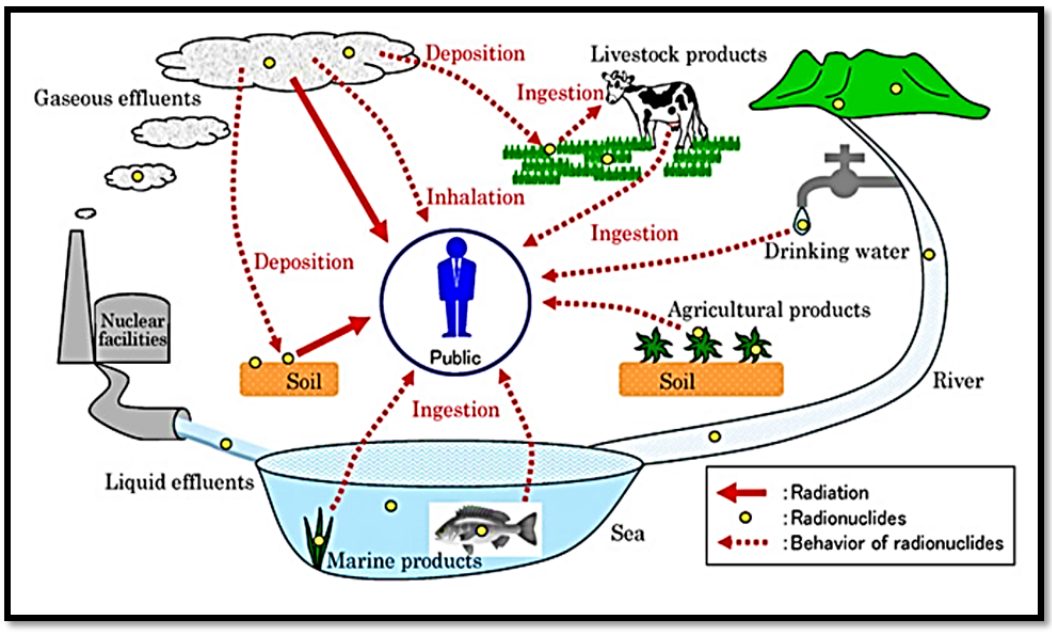

Figure 4, Potential exposure pathways to Members of the Public due to Plant Operations **[9]**

Each plant has an Offsite Dose Calculation Manual (ODCM) that specifies the methodology used to obtain the doses in the Dose Assessment section of this report. The dose assessment methodology in the ODCM is based on NRC Regulatory Guide 1.109 [10] and NUREG-0133 [11]. Doses are calculated by determining what the nuclide concentration will be in air, water, on the ground, or in food products based on plant effluent releases. Release points are continuously monitored to quantify what concentrations of nuclides are being released. For gaseous releases meteorological data is used to determine how much of the released activity will be present at a given location outside of the plant either deposited onto the ground or in gaseous form. Intake patterns and nuclide bio-concentration factors are used to determine how much activity will be transferred into animal milk or meat. Finally, human ingestion factors and dose factors are used to determine how much activity will be consumed and how much dose the consumer will receive. Inhalation dose is calculated by determining the concentration of nuclides and how much air is breathed by the individual.

3.3 (Continued)

For liquid releases, dilution and mixing factors are used to model the environmental concentrations in water. Drinking water pathways are modeled by determining the concentration of nuclides in the water at the point where the drinking water is sourced (e.g., taken from wells, rivers, or lakes). Fish and invertebrate pathways are determined by using concentration at the release point, bioaccumulation factors for the fish or invertebrate and an estimate of the quantity of fish consumed.

Each year a Land Use Census is performed to determine what potential dose pathways currently exist within a five-mile radius around the plant, the area most affected by plant operations. The Annual Land Use Census identifies the locations of vegetable gardens, nearest residences, milk animals and meat animals. The data from the census is used to determine who is likely to be most exposed to radiation dose due to plant operation.

There is significant uncertainty in dose calculation results, due to modeling dispersion of material released and bioaccumulation factors, as well as assumptions associated with consumption and land-use patterns. Even with these sources of uncertainty, the calculations do provide a reasonable estimate of the order of magnitude of the exposure. Conservative assumptions are made in the calculation inputs such as the number of various foods and water consumed, the amount of air inhaled, and the amount of direct radiation exposure from the ground or plume, such that the actual dose received are likely lower than the calculated dose. Even with the built-in conservatism, doses calculated for the maximum exposed individual due to plant operation are a very small fraction of the annual dose that is received due to other sources. The calculated doses due to plant effluents, along with REMP results, serve to provide assurance that radioactive effluents releases are not exceeding safety standards for the environment or people living near the plant.

4.0 DOSE ASSESSMENT FOR PLANT OPERATIONS

4.1 Regulatory Limits

Regulatory limits are detailed in station licensing documents such as the plant Technical Specifications, Offsite Dose Calculation Manual (ODCM), the Final Safety Analysis Report, and Plant Operating procedures. These documents contain the limits to which PBAPS must adhere. PBAPS drives to maintain the philosophy to keep dose "as low as is reasonably achievable" (ALARA) and actions are taken to reduce the amount of radiation released to the environment. Liquid and gaseous release data show that the dose from PBAPS is well below the ODCM limits. The instantaneous concentration of liquid radioactive material released shall be limited to ten times the concentration specified in 10 CFR 20, Appendix B, Table 2, Column 2, for radionuclides other than dissolved or entrained noble gases. For dissolved or entrained noble gases, the total concentration released shall be limited to 2.0×10^{-4} microcuries/ml.

The annual whole body, skin and organ dose was computed using the 2025 source term using the dose calculation methodology provided in the ODCM. The calculated doses due to gaseous effluents are used to demonstrate compliance with offsite dose limits are presented in Table 1, Peach Bottom Atomic Power Station Units 2 and 3 Dose Summary and Table 2, Total Annual Offsite-Dose Comparison to 40 CFR 190 Limits for PBAPS.

4.2 Regulatory Limits for Gaseous Effluent Doses:

1. Fission and activation gases:

    a. Noble gases dose rate due to radioactive materials released in gaseous effluents from the site to areas at and beyond the site boundary shall be limited to the following:

        1) Less than or equal to 500 mrem/year to the total body

        2) Less than or equal to 3000 mrem/year to the skin

    b. Noble gas air dose due to noble gases released in gaseous effluents from each reactor unit to areas at and beyond the site boundary shall be limited to the following:

        1) Quarterly

            a) Less than or equal to 5 mrads gamma

            b) Less than or equal to 10 mrads beta

        2) Yearly

            a) Less than or equal to 10 mrads gamma

            b) Less than or equal to 20 mrads beta

4.2 (Continued)

2. Iodine, tritium, and all radionuclides in particulate form with half-lives greater than 8 days.

   a. The dose rate for iodine-131, iodine-133, tritium, and all radionuclides in particulate form with half-lives greater than 8 days in gaseous effluents released from the site to areas at and beyond the site boundary shall be limited to the following:

      1) Less than or equal to 1500 mrem/yr to any organ

   b. The dose to a MEMBER OF THE PUBLIC from iodine-131, iodine-133, tritium, and all radionuclides in particulate form with half-lives greater than 8 DAYS in gaseous effluents released from each reactor unit to areas at and beyond the site boundary shall be limited to the following:

      1) Quarterly

         a) Less than or equal to 7.5 mrem to any organ

      2) Yearly

         a) Less than or equal to 15 mrem to any organ

4.3 <u>Regulatory Limits for Liquid Effluent Doses</u>

1. The dose or dose commitment to a MEMBER OF THE PUBLIC from radioactive materials in liquid effluents released from each reactor unit to unrestricted areas shall be limited to the following:

   a. Quarterly

      1) Less than or equal to 1.5 mrem total body

      2) Less than or equal to 5 mrem critical organ

   b. Yearly

      1) Less than or equal to 3 mrem total body

      2) Less than or equal to 10 mrem critical organ

4.4 40 CFR 190 Regulatory Dose Limits for a Member of the Public

1. Total Dose (40 CFR 190)

   a. The annual (calendar year) dose or dose commitment to any MEMBER OF THE PUBLIC in the unrestricted area due to releases of radioactivity and to radiation from uranium fuel cycle sources shall be limited to the following:

      1) Less than or equal to 25 mrem, Total Body or any Organ except Thyroid.

      2) Less than or equal to 75 mrem, Thyroid.

4.5 Onsite Doses (Within Site Boundary)

A dose assessment was performed for members of the public due to their activities inside the site boundary, per ODCMS 3.10.2.f. The locations where a member of the public would spend a significant amount of time inside the site boundary are two vehicle checkpoints, approximately 780 feet ENE (Emergency Response Location) and 910 feet NNE (Warehouse Checkpoint) of the PBAPS Unit 2 and Unit 3 reactor building exhaust vents. Assuming continuous occupancy, the calculated total body and skin doses were 1.18E-01 mrem and 1.53E-01 mrem for the Emergency Response Location and 1.60E-02 mrem and 2.08E-02 mrem for the Warehouse Checkpoint, respectively. The noble gas limiting air doses were 1.22E-01 mrad (gamma) and 8.25E-02 mrad (beta) for the Emergency Response Location and 1.67E-02 mrad (gamma) and 1.12E-02 mrad (beta) for the Warehouse Checkpoint. These doses are conservative, as typically vehicles and their drivers are not at the checkpoints 24/7.

The organ dose from the inhalation pathway, not including C-14, is 4.73E-03 mrem for the Emergency Response Location and 6.44E-04 mrem for the Warehouse Checkpoint, both to the infant thyroid.

5.0 SUPPLEMENTAL INFORMATION

5.1 Gaseous Batch Releases

5.1.1 PBAPS Units 2 and 3

	Units	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
1. Number of Batch Releases		0	0	0	0	0
2. Total duration of batch releases	minutes	0	0	0	0	0
3. Maximum batch release duration	minutes	0	0	0	0	0
4. Average batch release duration	minutes	0	0	0	0	0
5. Minimum batch release duration	minutes	0	0	0	0	0

5.2 Liquid Batch Releases

5.2.1 PBAPS Units 2 and 3

	Units	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual
1. Number of Batch Releases		3	2	4	14	23
2. Total duration of batch releases	minutes	3.13E+02	2.40E+02	4.55E+02	1.83E+03	2.84E+03
3. Maximum batch release duration	minutes	2.00E+02	1.70E+02	2.25E+02	1.56E+02	2.25E+02
4. Average batch release duration	minutes	1.04E+02	1.20E+02	1.14E+02	1.31E+02	1.23E+02
5. Minimum batch release duration	minutes	4.30E+01	7.00E+01	5.50E+01	1.14E+02	4.30E+01
6. Avg stream flow during periods of release of liquid effluent into a flowing stream	Ft^3/sec	*	*	*	*	*

*The river flow is not used for dose calculations. The actual flow rate of Circulation Water (the water that is circulated within the plant for cooling) is determined for each liquid effluent release because this Circulation Water provides dilution and therefore reduces the projected dose.

5.3 Abnormal Releases

5.3.1 Gaseous Abnormal Releases

There were no gaseous abnormal releases in 2025.

5.3.2 Liquid Abnormal Releases

Number of Releases	2
Total Activity Released	2.08E-09 Ci

During a routine run of 2B RHR in 2024, very low activity levels of H-3, Co-60, and Cs-137 were identified in one sample from the BHD of the heat exchanger on the HPSW side. The activity was documented in a liquid release permit for U2 Torus and a WO was created to increase sampling. No active leak is suspected, but release permits were captured to be conservative when activity was detected in the 2B RHR BHD sample. During 2025, H-3 was found in the 2B RHR BHD samples in January and October. The activity was captured in release permits L-20250101-550-C and L-20251001-526-C. The total activity released is captured in the table above.

5.4 Land Use Census Changes

There were no changes that impacted the Radioactive Effluent Release Program. Results of the Land Use Census are reported in the AREOR.

5.5 Meteorological Data

The PBAPS Meteorological Program achieved a 99.2% Joint Frequency Distribution (JFD) for 2025. The quarterly and annual JFDs are included in Attachment 3, Meteorological Data.

5.6 Effluent Radiation Monitors Out of Service Greater Than 30 Days

Effluent monitor for Unit 2 B Vent Stack Radiation Monitor was out of service for greater than 30 days during 2025. No compensatory measures were required as the Unit 2 A Vent Stack Radiation Monitor remained in service during this time. The Unit 2 B Vent Stack Radiation Monitor was not returned to service prior to 30 days because the repair required a new CPU that could not be received and installed within 30 days.

5.7 Offsite Dose Calculation Manual (ODCM) Changes

There were no ODCM changes during 2025.

5.8 Process Control Program (PCP) Changes

There were no Process Control Program (PCP) changes during changes during 2025.

5.9 Radioactive Waste Treatment System Changes

There were no Radioactive Waste Treatment System changes during 2025.

5.10 Carbon-14

Carbon-14 (C-14) is a naturally occurring radionuclide with a 5,730-year half-life. Nuclear weapons testing in the 1950s and 1960s significantly increased the amount of C-14 in the atmosphere. Nuclear power plants also produce C-14, but the amount is infinitesimal compared to what has been distributed in the environment due to weapons testing and what is produced by natural cosmic ray interactions.

In accordance with Regulatory Guide 1.21, “Measuring, Evaluating, and Reporting Radioactive Material in Liquid and Gaseous Effluents and Solid Waste,” the NRC recommended re-evaluating “principal radionuclides” and reporting C-14 as appropriate. Carbon-14 production and release estimates were calculated using active core coolant mass, average neutron flux by energy and reactor coolant nitrogen concentrations to determine Carbon-14 generation based upon an effective full power year. The estimated generation for Peach Bottom Atomic Power Station during 2025 was 38.8 Curies.

Public dose estimates were performed using methodology from the ODCM which is based on Regulatory Guide 1.109 methodology. C-14 dose is included in dose calculation results in Table 2.

5.11 Errata/Corrections to Previous ARERRs

There are no corrections to previous ARERRs included in this report.

5.12 Independent Spent Fuel Storage Installation (ISFSI) Monitoring Program

A separate report is issued covering radioactive releases from the Independent Spent Fuel Storage Installation, NRC Docket No. 72-29 (ISFSI).

5.13 Other Supplemental Information

An external vendor performs particulate Gross Beta measurements for Peach Bottom and participates in a quarterly crosscheck program. In the 4th quarter of 2025, there was a disagreement that was discovered between the results obtained by vendor and the reference value for Gross Beta and Ni-63. The cross-check sample consisted of a particulate filter sample that arrived in a stack of three filters – blank, spiked, blank. The vendor ran the stack of filters together which originally provided erroneous results due to the attenuation of beta emissions from the spiked filter, preventing the detector from measuring the full activity. Following the discrepancy investigation, the vendor separated the filters and re-ran each of the three filters individually, with the middle (spiked) filter yielding an expected activity consistent with reference value. As a corrective action, TBE included a note to the project to visually inspect Gross Beta crosscheck filters for potential stacking or atypical configurations prior to analysis.

5.13.1 Temporary Outside Tanks

There were no outside Temporary Tanks that exceeded any limits.

6.0 NEI 07-07 ONSITE RADIOLOGICAL GROUNDWATER MONITORING PROGRAM

Peach Bottom Atomic Power Station has developed a Groundwater Protection Initiative (GPI) program in accordance with NEI 07-07, Industry Ground Water Protection Initiative – Final Guidance Document [12]. The purpose of the GPI is to ensure timely detection and an effective response to situations involving inadvertent radiological releases to groundwater to prevent migration of licensed radioactive material off-site and to quantify impacts on decommissioning. During 2025, PBAPS collected and analyzed groundwater samples in accordance with the requirements of Site Procedures. The groundwater tritium mass flux entering the unrestricted boundary was calculated as 5.87 curies. Results from groundwater sampling and analysis are reported in the Annual Radiological Environmental Operating Report (AREOR).

6.1 Voluntary Notification

During 2025, Peach Bottom Atomic Power Station did not make a voluntary NEI 07-07 notification to State/Local officials, NRC, and to other stakeholders required by site procedures.

7.0 BIBLIOGRAPHY

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[16] "40 CFR 141 - National Primary Drinking Water Regulations," US Environmental Protection Agency, Washington, DC..

[17] "NUREG-0324 - XOQDOQ, Program for the Meteorological Evaluation of Routine Effluent Releases at Nuclear Power Stations," Nuclear Regulatory Commission, September, 1977.

[18] "NUREG-1301 - Offsite Dose Calculation Manual Guidance: Standard Radiological Effluent Controls for Pressurized Water Reactors," Nuclear Regulatory Commission, April 1991.

[19] "NUREG-1302 - Offsite Dose Calculation Manual Guidance: Standard Radiological Effluent Controls for Boiling Water Reactors," Nuclear Regulatory Commission, April 1991.

[20] "USNRC Regulatory Guide 4.13 - Performance, Testing, and Procedural Specifications for Thermoluminescence Dosimetry: Environmental Applications, Revision 2," Nuclear Regulatory Commision, June, 2019.

[21] "USNRC Regulatory Guide 4.15 - Quality Assurance for Radiological Monitoring Programs (Inception through Normal Operations to License Termination) -- Effluent Streams and the Environment," Nuclear Regulatory Commission, July, 2007.

Attachment 1, ARERR Release Summary Tables (RG-1.21 Tables)

1.0 GASEOUS EFFLUENTS

Table 3, Gaseous Effluents Summation of All Releases Units 2 and 3[1]

A. Fission & Activation Gases	Unit	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Annual	Est. Total Error %
1. Total Release	Ci	1.33E+01	<LLD	<LLD	2.98E+01	4.31E+01	4.00E+01
2. Average release rate for the period	μCi/sec	1.71E+00	<LLD	<LLD	3.75E+00	1.37E+00	
B. Iodine-131							
1. Total Release	Ci	5.82E-06	2.12E-05	2.82E-05	3.93E-05	9.45E-05	1.90E+01
2. Average release rate for the period	μCi/sec	7.48E-07	3.46E-06	5.70E-06	1.22E-05	5.14E-06	
C. Particulates							
1. Total Release	Ci	3.00E-05	3.57E-05	4.91E-05	5.19E-05	1.67E-04	2.80E+01
2. Average release rate for the period	μCi/sec	3.86E-06	4.54E-06	6.18E-06	6.52E-06	5.29E-06	
D. Tritium							
1. Total Release	Ci	1.10E+01	7.42E+00	1.34E+01	9.02E+00	4.09E+01	1.30E+01
2. Average release rate for the period	μCi/sec	1.42E+00	9.43E-01	1.68E+00	1.14E+00	1.30E+00	
E. Gross Alpha							
1. Total Release	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	4.00E+02
2. Average release rate for the period	μCi/sec	N/A	N/A	N/A	N/A	N/A	
F. Carbon-14							
1. Total Release	Ci	9.55E+00	9.45E+00	9.52E+00	9.06E+00	3.76E+01	
2. Average release rate for the period	μCi/sec	1.23E+00	1.20E+00	1.20E+00	1.14E+00	1.19E+00	

[1] Percent of limit is on Table 1, Peach Bottom Atomic Power Station Units 2 and 3 Dose Summary. C-14 is not part of the Appendix I dose limits and therefore, not included in Table 1. However, C-14 is reported in Table 2, Total Annual Offsite-Dose Comparison to 40 CFR 190 Limits for PBAPS.

Attachment 1, ARERR Release Summary Tables (RG-1.21 Tables)

Table 4, Gaseous Effluents – Ground Level Release Batch Mode Units 2 and 3

Radionuclide Released	Units	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total for year
Fission Gases						
None	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
	Ci					
	Ci					
Total for Period	**Ci**	<LLD	<LLD	<LLD	<LLD	<LLD
Iodines						
None	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
	Ci					
	Ci					
	Ci					
Total for Period	**Ci**	<LLD	<LLD	<LLD	<LLD	<LLD
Particulates						
None	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
	Ci					
	Ci					
	Ci					
	Ci					
	Ci					
Total for Period	**Ci**	<LLD	<LLD	<LLD	<LLD	<LLD
Tritium						
H-3	**Ci**	**<LLD**	**<LLD**	**<LLD**	**<LLD**	**<LLD**
Gross Alpha						
Alpha	**Ci**	**<LLD**	**<LLD**	**<LLD**	**<LLD**	**<LLD**
Carbon-14						
C-14	**Ci**	**<LLD**	**<LLD**	**<LLD**	**<LLD**	**<LLD**

Attachment 1, ARERR Release Summary Tables (RG-1.21 Tables)

Table 5, Gaseous Effluents – Ground Level Release Continuous Mode Units 2 and 3

Radionuclide Released	Units	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total for year
Fission Gases						
Unidentified	Ci	1.33E+01	<LLD	<LLD	1.98E+01	3.31E+01
	Ci					
Total for Period	**Ci**	**1.33E+01**	**<LLD**	**<LLD**	**1.98E+01**	**3.31E+01**
Iodines						
I-131	Ci	<LLD	<LLD	<LLD	6.15E-05	6.15E-05
I-133	Ci	<LLD	2.75E-05	7.00E-05	6.76E-05	1.65E-04
	Ci					
	Ci					
Total for Period	**Ci**	**<LLD**	**2.75E-05**	**7.00E-05**	**1.29E-04**	**2.27E-04**
Particulates						
Co-60	Ci	<LLD	<LLD	6.84E-06	1.33E-05	2.01E-05
	Ci					
	Ci					
	Ci					
Total for Period	**Ci**	**<LLD**	**<LLD**	**6.84E-06**	**1.33E-05**	**2.01E-05**
Tritium						
H-3	**Ci**	**1.01E+01**	**5.96E+00**	**6.54E+00**	**6.43E+00**	**2.90E+01**
Gross Alpha						
Alpha	**Ci**	**<LLD**	**<LLD**	**<LLD**	**<LLD**	**<LLD**
Carbon-14						
C-14	**Ci**	**2.87E-01**	**2.85E-01**	**2.85E-01**	**2.71E-01**	**1.13E+00**

Attachment 1, ARERR Release Summary Tables (RG-1.21 Tables)

Table 6, Gaseous Effluents – Elevated Level Release Batch Mode Units 2 and 3

Radionuclide Released	Units	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total for year
Fission Gases						
None	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
	Ci					
	Ci					
Total for Period	**Ci**	**<LLD**	**<LLD**	**<LLD**	**<LLD**	**<LLD**
Iodines						
None	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
	Ci					
	Ci					
	Ci					
Total for Period	**Ci**	**<LLD**	**<LLD**	**<LLD**	**<LLD**	**<LLD**
Particulates						
None	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
	Ci					
	Ci					
	Ci					
	Ci					
	Ci					
Total for Period	**Ci**	**<LLD**	**<LLD**	**<LLD**	**<LLD**	**<LLD**
Tritium						
H-3	**Ci**	**<LLD**	**<LLD**	**<LLD**	**<LLD**	**<LLD**
Gross Alpha						
Alpha	**Ci**	**<LLD**	**<LLD**	**<LLD**	**<LLD**	**<LLD**
Carbon-14						
C-14	**Ci**	**<LLD**	**<LLD**	**<LLD**	**<LLD**	**<LLD**

Attachment 1, ARERR Release Summary Tables (RG-1.21 Tables)

Table 7, Gaseous Effluents – Elevated Level Release Continuous Mode Units 2 and 3

Radionuclide Released	Units	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total for year
Fission Gases						
Unidentified	Ci	<LLD	<LLD	<LLD	1.00E+01	1.00E+01
Ar-41	Ci	<LLD	<LLD	<LLD	1.80E-02	1.80E-02
Total for Period	**Ci**	**<LLD**	**<LLD**	**<LLD**	**1.00E+01**	**1.00E+01**
Iodines						
I-131	Ci	5.82E-06	2.12E-05	2.82E-05	3.93E-05	9.45E-05
I-133	Ci	1.15E-05	7.59E-05	8.63E-05	4.84E-05	2.22E-04
Total for Period	**Ci**	**1.73E-05**	**9.71E-05**	**1.15E-04**	**8.77E-05**	**3.17E-04**
Particulates						
Mn-54	Ci	6.36E-07	4.12E-07	<LLD	2.01E-06	3.06E-06
Co-58	Ci	5.09E-07	3.78E-07	<LLD	2.30E-06	3.19E-06
Co-60	Ci	6.05E-06	4.30E-06	1.56E-06	9.80E-06	2.17E-05
Sr-89	Ci	2.18E-05	2.95E-05	4.07E-05	2.45E-05	1.16E-04
Cs-137	Ci	1.07E-06	<LLD	<LLD	<LLD	1.07E-06
Ba-140	Ci	<LLD	1.10E-06	<LLD	<LLD	1.10E-06
Total for Period	**Ci**	**3.00E-05**	**3.57E-05**	**4.23E-05**	**3.86E-05**	**1.47E-04**
Tritium						
H-3	Ci	9.39E-01	1.46E+00	6.85E+00	2.59E+00	1.18E+01
Gross Alpha						
Alpha	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Carbon-14						
C-14	Ci	9.27E+00	9.17E+00	9.23E+00	8.79E+00	3.65E+01

Attachment 1, ARERR Release Summary Tables (RG-1.21 Tables)

2.0 LIQUID EFFLUENTS

Table 8, Liquid Effluents – Summation of All Releases Units 2 and 3

A. Fission & Activation Products	**Units**	**Quarter 1**	**Quarter 2**	**Quarter 3**	**Quarter 4**	**Annual**	**Est. Total Error %**
1. Total Release	Ci	7.08E-07	7.33E-07	1.00E-06	6.84E-05	7.08E-05	1.60E+01
2. Average diluted concentration	μCi/mL	1.21E-15	1.10E-15	1.47E-15	1.31E-13	2.88E-14	
B. Tritium							
1. Total Release	Ci	3.88E+00	1.72E-01	1.07E+00	6.50E+00	1.16E+01	6.40E+00
2. Average diluted concentration	μCi/mL	6.63E-09	2.56E-10	1.58E-09	1.24E-08	4.74E-09	
C. Dissolved & Entrained Gases							
1. Total Release	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	2.80E+01
2. Average diluted concentration	μCi/mL	<LLD	<LLD	<LLD	<LLD	<LLD	
D. Gross Alpha Activity							
1. Total Release	Ci	<LLD	<LLD	<LLD	<LLD	<LLD	2.30E+01
2. Average diluted concentration	μCi/mL	<LLD	<LLD	<LLD	<LLD	<LLD	
E. Volume of Waste Released (prior to dilution)	Liters	1.69E+08	1.71E+08	1.73E+08	1.17E+08	6.29E+08	
F. Volume of Dilution Water Used During Period	Liters	5.85E+11	6.69E+11	6.79E+11	5.23E+11	2.46E+12	

Attachment 1, ARERR Release Summary Tables (RG-1.21 Tables)

Table 9, Batch Mode Liquid Effluents Units 2 and 3

Radionuclide Released	Unit	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total for year
Fission and Activation Products						
Co-58	Ci	<LLD	<LLD	<LLD	1.85E-05	1.85E-05
Co-60	Ci	4.79E-07	5.25E-07	6.76E-07	3.04E-05	3.21E-05
Ag-110m	Ci	<LLD	<LLD	<LLD	1.36E-05	1.36E-05
Sb-125	Ci	<LLD	<LLD	<LLD	5.95E-06	5.95E-06
Cs-137	Ci	2.29E-07	2.09E-07	3.24E-07	<LLD	7.61E-07
Total for Period	**Ci**	**7.08E-07**	**7.33E-07**	**1.00E-06**	**6.84E-05**	**7.08E-05**
Tritium						
H-3	Ci	5.36E-01	1.53E-03	4.53E-03	5.47E+00	6.01E+00
Gross Alpha						
Alpha	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Entrained Gases						
None	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total for Period	**Ci**	**<LLD**	**<LLD**	**<LLD**	**<LLD**	**<LLD**

Attachment 1, ARERR Release Summary Tables (RG-1.21 Tables)

Table 10, Continuous Mode Liquid Effluents Units 2 and 3

Radionuclide Released	Unit	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total for year
Fission and Activation Products						
None	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Total for Period	**Ci**	**<LLD**	**<LLD**	**<LLD**	**<LLD**	**<LLD**
Tritium						
H-3	Ci	3.34E+00	1.70E-01	1.07E+00	1.04E+00	5.62E+00
Gross Alpha						
Alpha	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Entrained Gases						
None	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
	Ci					
Total for Period	**Ci**	**<LLD**	**<LLD**	**<LLD**	**<LLD**	**<LLD**

Attachment 2, Solid Waste Information

Table 11, Resins, Filters, and Evaporator Bottoms Summary for Units 2 and 3

Waste Class	Volume ft^3	Volume m^3	Curies Shipped
A	3.05E+03	8.63E+01	3.79E+01
B	0.00E+00	0.00E+00	0.00E+00
C	0.00E+00	0.00E+00	0.00E+00
Unclassified	0.00E+00	0.00E+00	0.00E+00
All	3.05E+03	8.63E+01	3.79E+01

Major Nuclides for Above Table: H-3, C-14, Mn-54, Fe-55, Co-60, Ni-63, Zn-65, Sr-90, Tc-99, Ag-110m, I-129, Cs-137, Pu-238, Pu-239, Pu-241, Am-241, Cm-244

Waste Class A		**Percent Abundance > 1.0%**
Nuclide Name	Percent Abundance	Curies
H-3	3.13%	1.18E+00
C-14	2.65%	1.01E+00
Mn-54	3.36%	1.27E+00
Fe-55	5.98%	2.27E+00
Co-60	50.32%	1.81E+01
Ni-63	1.23%	4.66E-01
Zn-65	3.71%	1.41E+00
Cs-137	27.99%	1.06E+01

Total Combined		**Percent Abundance > 1.0%**
Nuclide Name	Percent Abundance	Curies
H-3	3.13%	1.18E+00
C-14	2.65%	1.01E+00
Mn-54	3.36%	1.27E+00
Fe-55	5.98%	2.27E+00
Co-60	50.32%	1.81E+01
Ni-63	1.23%	4.66E-01
Zn-65	3.71%	1.41E+00
Cs-137	27.99%	1.06E+01

Attachment 2, Solid Waste Information

Table 12, Dry Active Waste (DAW) Summary for Units 2 and 3

Waste Class	**Volume** ft^3	m^3	**Curies Shipped**
A	1.91E+04	5.42E+02	2.73E-01
B	0.00E+00	0.00E+00	0.00E+00
C	0.00E+00	0.00E+00	0.00E+00
Unclassified	0.00E+00	0.00E+00	0.00E+00
All	1.91E+04	5.42E+02	2.73E-01

Major Nuclides for Above Table: H-3, C-14, Mn-54, Fe-55, Co-60, Ni-63, Zn-65, Sr-90, Tc-99, I-129, Cs-137

Waste Class A		**Percent Abundance > 1.0%**
Nuclide Name	Percent Abundance	Curies
Mn-54	4.93%	1.34E-02
Fe-55	29.46%	8.04E-02
Co-60	56.85%	1.55E-01
Ni-63	1.49%	4.06E-03
Zn-65	2.33%	6.35E-03
Cs-137	3.63%	9.91E-03

Total Combined		**Percent Abundance > 1.0%**
Nuclide Name	Percent Abundance	Curies
Mn-54	4.93%	1.34E-02
Fe-55	29.46%	8.04E-02
Co-60	56.85%	1.55E-01
Ni-63	1.49%	4.06E-03
Zn-65	2.33%	6.35E-03
Cs-137	3.63%	9.91E-03

Attachment 2, Solid Waste Information

Table 13, Irradiated Components Summary for Units 2 and 3

Waste Class	**Volume** ft^3	m^3	**Curies Shipped**
A	0.00E+00	0.00E+00	0.00E+00
B	0.00E+00	0.00E+00	0.00E+00
C	0.00E+00	0.00E+00	0.00E+00
Unclassified	0.00E+00	0.00E+00	0.00E+00
All	0.00E+00	0.00E+00	0.00E+00

Major Nuclides for Above Table: None

Waste Class A		**Percent Abundance > 1.0%**
Nuclide Name	Percent Abundance	Curies
None	N/A	N/A

Total Combined		**Percent Abundance > 1.0%**
Nuclide Name	Percent Abundance	Curies
None	NA	N/A

Attachment 2, Solid Waste Information

Table 14, Other Wastes Summary for Units 2 and 3

Waste Class	**Volume** ft^3	m^3	**Curies Shipped**
A	2.59E+03	7.33E+01	1.59E-02
B	0.00E+00	0.00E+00	0.00E+00
C	0.00E+00	0.00E+00	0.00E+00
Unclassified	0.00E+00	0.00E+00	0.00E+00
All	2.59E+03	7.33E+01	1.59E-02

Major Nuclides for Above Table: H-3, C-14, Mn-54, Fe-55, Co-60, Ni-63, Zn-65, Tc-99, I-129, Cs-137

Waste Class A		**Percent Abundance > 1.0%**
Nuclide Name	Percent Abundance	Curies
Mn-54	5.16%	8.20E-04
Fe-55	38.88%	6.18E-03
Co-60	48.62%	7.72E-03
Ni-63	1.74%	2.77E-04
Zn-65	2.67%	4.24E-04
Cs-137	1.84%	2.92E-04

Total Combined		**Percent Abundance > 1.0%**
Nuclide Name	Percent Abundance	Curies
Mn-54	5.16%	8.20E-04
Fe-55	38.88%	6.18E-03
Co-60	48.62%	7.72E-03
Ni-63	1.74%	2.77E-04
Zn-65	2.67%	4.24E-04
Cs-137	1.84%	2.92E-04

Attachment 2, Solid Waste Information

Table 15, Sum of All Low-Level Waste Shipped from Units 2 and 3

Waste Class	**Volume** ft^3	m^3	**Curies Shipped**
A	2.48E+04	7.02E+02	3.82E+01
B	0.00E+00	0.00E+00	0.00E+00
C	0.00E+00	0.00E+00	0.00E+00
Unclassified	0.00E+00	0.00E+00	0.00E+00
All	2.48E+04	7.02E+02	3.82E+01

Major Nuclides for Above Table: H-3, C-14, Mn-54, Fe-55, Co-60, Ni-63, Zn-65, Sr-90, Tc-99, Ag-110m, I-129, Cs-137, Pu-238, Pu-239, Pu-241, Am-241, Cm-244

Waste Class A		**Percent Abundance > 1.0%**
Nuclide Name	Percent Abundance	Curies
H-3	3.1%	1.18E+00
C-14	2.63%	1.01E+00
Mn-54	3.37%	1.29E+00
Fe-55	6.16%	2.35E+00
Co-60	50.37%	1.92E+01
Ni-63	1.23%	4.70E-01
Zn-65	3.7%	1.41E+00
Cs-137	27.81%	1.06E+01

Total Combined		**Percent Abundance > 1.0%**
Nuclide Name	Percent Abundance	Curies
H-3	3.1%	1.18E+00
C-14	2.63%	1.01E+00
Mn-54	3.37%	1.29E+00
Fe-55	6.16%	2.35E+00
Co-60	50.37%	1.92E+01
Ni-63	1.23%	4.70E-01
Zn-65	3.7%	1.41E+00
Cs-137	27.81%	1.06E+01

Attachment 2, Solid Waste Information

3.0 SOLID WASTE DISPOSITION

Table 16, Solid Waste Shipped from the Peach Bottom Atomic Power Station

Number of Shipments	Mode of Transportation	Destination
3	Hittman Transport Services	Energy Solutions – Memphis 1790 Dock Street
13	Hittman Transport Services	Energy Solutions Services. (CVRF - BCO) Bear Creek Operations
3	Hittman Transport Services	Energy Solutions – BWF Clive Disposal Site - Bulk Waste Facility
16	Hittman Transport Services	Energy Solutions LLC Clive Disposal Site - Containerized Waste Facility
1	Specialty Transport, Inc. d.b.a A.J Metler Hauling	Energy Solutions Services. (CVRF - BCO) Bear Creek Operations
36	Total	

4.0 IRRADIATED FUEL DISPOSITION

Table 17, Irradiated Fuel Shipments Disposition Peach Bottom Atomic Power Station

Number of Shipments	Mode of Transportation	Destination
0		
0		
Total 0		

Attachment 3, Meteorological Data

1.0 METEOROLOGICAL DATA SUMMARY

1.1 Stability class

Table 18, 2025 Classification of Atmospheric Stability

Stability Condition	Pasquill Categories	Percentage
Extremely Unstable	A	11.81
Moderately Stable	B	10.46
Slightly Unstable	C	5.69
Neutral	D	35.03
Slightly Stable	E	25.02
Moderately Stable	F	7.92
Extremely Stable	G	4.08
	Total	100.01

1.2 Data Recovery

Table 19, 2025 Meteorological Sensor Data Recovery

Measurement	Elevation	Recovered Hours	Recovered Percent	Lost Hours
Wind Speed	33 ft.	8694	99.2	66
Wind Speed	75 ft.	8696	99.3	64
Wind Speed	320 ft.	8686	99.2	74
Wind Direction	33 ft.	8702	99.3	58
Wind Direction	75 ft.	8655	98.8	105
Wind Direction	320 ft.	8702	99.3	58
Ambient Temperature	33 ft.	8702	99.3	58
Differential Temperature	150-33 ft.	8702	99.3	58
Differential Temperature	316-33 ft.	8702	99.3	58
Dew Point	33 ft.	8702	99.3	58
Precipitation	8 ft.	8702	99.3	58
Average*	-	-	99.2	-

*Average of priority parameters (all except precipitation and dew point)			
	Valid Hours	Recovered Percent	Lost Hours
Lower-Level Joint Frequency %	8694	99.2	66
Middle-Level Joint Frequency %	8649	98.7	111
Upper-Level Joint Frequency %	8686	99.2	74

1.3 Joint Frequency Distributions

1. Period of Record: 2025
2. Stability Class: All
    a. Periods of calm 33 foot (percent): 0.00%
    b. Periods of calm 320 foot (percent): 0.00%
    c. Hours of missing data: 251 hours
    d. Meteorological data are reported in percentage of total hours for all stability classes.
3. Elevation: 320 ft

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: January - March 2025
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	2	4	0	0	0	0	6
NNE	2	3	0	0	0	0	5
NE	0	2	0	0	0	0	2
ENE	16	4	0	0	0	0	20
E	15	12	0	0	0	0	27
ESE	2	13	3	0	0	0	18
SE	1	16	9	2	0	0	28
SSE	2	9	3	1	0	0	15
S	0	0	12	0	0	0	12
SSW	0	2	2	1	0	0	5
SW	4	3	0	2	0	0	9
WSW	1	4	4	2	0	0	11
W	2	1	2	5	1	0	11
WNW	1	2	4	5	1	0	13
NW	1	1	4	5	0	0	11
NNW	1	1	3	0	0	0	5
Variable	0	0	0	0	0	0	0
Total	50	77	46	23	2	0	198

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: 1

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: January - March 2025
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	7	0	0	0	0	7
NNE	5	2	0	0	0	0	7
NE	5	0	0	0	0	0	5
ENE	8	0	0	0	0	0	8
E	9	1	0	0	0	0	10
ESE	2	6	1	0	0	0	9
SE	0	9	2	0	0	0	11
SSE	0	1	2	0	0	0	3
S	0	4	5	1	0	0	10
SSW	0	2	2	1	0	0	5
SW	0	1	6	1	0	0	8
WSW	0	1	5	5	0	0	11
W	0	6	14	3	1	0	24
WNW	1	3	22	10	0	0	36
NW	0	0	22	17	2	0	41
NNW	0	9	6	9	0	0	24
Variable	0	0	0	0	0	0	0
Total	30	52	87	47	3	0	219

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: 1

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: January - March 2025
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	0	0	0	0	0	1
NNE	1	0	0	0	0	0	1
NE	3	0	0	0	0	0	3
ENE	4	0	0	0	0	0	4
E	5	1	0	0	0	0	6
ESE	0	1	0	0	0	0	1
SE	0	4	0	0	0	0	4
SSE	0	3	2	0	0	0	5
S	1	5	6	0	0	0	12
SSW	0	0	0	0	0	0	0
SW	0	1	3	0	0	0	4
WSW	1	1	1	0	0	0	3
W	0	7	6	5	0	0	18
WNW	1	5	13	10	0	0	29
NW	0	5	20	13	1	0	39
NNW	1	6	11	6	0	0	24
Variable	0	0	0	0	0	0	0
Total	18	39	62	34	1	0	154

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: 1

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: January - March 2025
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	3	12	5	0	0	0	20
NNE	5	8	1	0	0	0	14
NE	10	4	0	0	0	0	14
ENE	21	3	0	0	0	0	24
E	8	15	0	0	0	0	23
ESE	5	21	0	0	0	0	26
SE	11	42	23	1	0	0	77
SSE	11	24	13	4	2	0	54
S	4	23	20	5	4	0	56
SSW	3	6	2	0	0	0	11
SW	2	4	11	0	0	0	17
WSW	8	14	8	0	0	0	30
W	9	34	52	15	0	0	110
WNW	13	49	123	38	0	0	223
NW	2	26	93	57	1	0	179
NNW	2	37	32	21	0	0	92
Variable	0	0	0	0	0	0	0
Total	117	322	383	141	7	0	970

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: 1

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: January - March 2025
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	9	2	0	0	0	0	11
NNE	2	0	0	0	0	0	2
NE	10	0	0	0	0	0	10
ENE	12	0	0	0	0	0	12
E	8	2	0	0	0	0	10
ESE	25	7	0	0	0	0	32
SE	18	11	0	0	0	0	29
SSE	12	14	2	0	0	0	28
S	13	17	1	0	0	0	31
SSW	10	12	0	0	0	0	22
SW	9	7	2	0	0	0	18
WSW	6	46	10	0	0	0	62
W	8	45	8	0	0	0	61
WNW	21	16	1	0	0	0	38
NW	10	20	0	0	0	0	30
NNW	9	16	0	0	0	0	25
Variable	0	0	0	0	0	0	0
Total	182	215	24	0	0	0	421

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: 1

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: January - March 2025
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	5	0	0	0	0	0	5
NNE	3	0	0	0	0	0	3
NE	6	0	0	0	0	0	6
ENE	9	0	0	0	0	0	9
E	12	1	0	0	0	0	13
ESE	7	0	0	0	0	0	7
SE	6	0	0	0	0	0	6
SSE	2	0	0	0	0	0	2
S	6	0	0	0	0	0	6
SSW	4	2	0	0	0	0	6
SW	4	3	0	0	0	0	7
WSW	12	16	1	0	0	0	29
W	10	4	0	0	0	0	14
WNW	5	1	0	0	0	0	6
NW	4	1	0	0	0	0	5
NNW	1	1	0	0	0	0	2
Variable	0	0	0	0	0	0	0
Total	96	29	1	0	0	0	126

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: 1

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: January - March 2025
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	5	0	0	0	0	0	5
E	5	0	0	0	0	0	5
ESE	3	0	0	0	0	0	3
SE	1	0	0	0	0	0	1
SSE	1	0	0	0	0	0	1
S	1	1	0	0	0	0	2
SSW	6	0	0	0	0	0	6
SW	0	0	0	0	0	0	0
WSW	11	2	0	0	0	0	13
W	8	0	0	0	0	0	8
WNW	0	0	0	0	0	0	0
NW	2	0	0	0	0	0	2
NNW	1	1	0	0	0	0	2
Variable	0	0	0	0	0	0	0
Total	48	4	0	0	0	0	52

Hours of calm in this stability class: 6
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 1

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: January - March 2025
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	1	0	0	0	0	1
NNE	0	0	0	0	0	0	0
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	1	0	0	0	0	1
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	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	0	0	0	0	3

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: 1

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: January - March 2025
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	0	0	0	0	0
ENE	0	4	0	0	0	0	4
E	0	1	0	0	0	0	1
ESE	0	0	2	0	0	0	2
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	1	0	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	5	2	1	0	0	8

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

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: January - March 2025
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	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	3	0	0	0	0	3
ESE	0	3	0	1	0	0	4
SE	0	0	2	3	0	0	5
SSE	0	0	1	0	0	0	1
S	0	0	3	5	0	0	8
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	1	0	1
WSW	0	0	0	3	4	0	7
W	0	0	0	1	8	4	13
WNW	0	0	0	1	8	1	10
NW	0	0	0	0	1	0	1
NNW	0	1	0	0	0	0	1
Variable	0	0	0	0	0	0	0
Total	0	9	6	14	22	5	56

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: 1

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: January - March 2025
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	1	7	12	8	0	0	28
NNE	1	14	8	0	0	0	23
NE	5	8	4	0	0	0	17
ENE	4	18	3	0	0	0	25
E	3	5	15	3	0	0	26
ESE	2	14	19	11	0	0	46
SE	1	13	54	30	7	0	105
SSE	3	13	28	9	7	4	64
S	0	16	27	24	11	7	85
SSW	0	5	0	3	1	1	10
SW	0	4	10	18	4	0	36
WSW	2	7	10	17	7	1	44
W	0	6	41	78	17	28	170
WNW	0	13	39	135	119	53	359
NW	2	7	39	54	69	19	190
NNW	5	10	29	18	19	1	82
Variable	0	0	0	0	0	0	0
Total	29	160	338	408	261	114	1310

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: 1

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: January - March 2025
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	5	2	1	0	0	8
NNE	1	0	0	0	0	0	1
NE	1	2	0	0	0	0	3
ENE	4	3	0	0	0	0	7
E	1	13	10	2	0	0	26
ESE	1	8	14	4	0	0	27
SE	0	13	14	6	3	2	38
SSE	2	12	23	22	0	0	59
S	5	8	40	11	5	0	69
SSW	2	14	16	18	1	0	51
SW	0	12	18	6	4	0	40
WSW	1	6	23	24	4	0	58
W	1	6	27	36	3	1	74
WNW	0	8	25	35	4	0	72
NW	1	6	33	19	1	0	60
NNW	0	8	15	7	0	0	30
Variable	0	0	0	0	0	0	0
Total	20	124	260	191	25	3	623

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

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: January - March 2025
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	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	3	2	0	0	0	5
S	0	5	6	0	0	0	11
SSW	1	4	4	2	0	0	11
SW	1	6	7	9	3	0	26
WSW	0	4	13	4	2	0	23
W	3	4	10	4	2	0	23
WNW	0	1	2	0	0	0	3
NW	1	0	2	2	1	0	6
NNW	1	2	0	1	0	0	4
Variable	0	0	0	0	0	0	0
Total	7	29	46	22	8	0	112

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: 1

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: January - March 2025
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	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	3	1	0	0	0	4
S	1	4	2	0	0	0	7
SSW	0	3	1	1	0	0	5
SW	1	1	3	4	1	0	10
WSW	0	1	5	0	0	0	6
W	0	2	2	3	0	0	7
WNW	0	1	2	3	0	0	6
NW	0	1	0	1	0	0	2
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	2	16	16	12	1	0	47

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: 1

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: April - June 2025
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	20	20	9	0	0	0	49
NNE	27	16	1	0	0	0	44
NE	36	6	0	0	0	0	42
ENE	27	2	0	0	0	0	29
E	14	10	0	0	0	0	24
ESE	7	25	6	0	0	0	38
SE	11	18	2	0	0	0	31
SSE	2	6	8	0	0	0	16
S	2	8	9	2	0	0	21
SSW	1	0	1	0	0	0	2
SW	1	3	1	0	0	0	5
WSW	1	5	2	0	0	0	8
W	3	5	7	1	0	0	16
WNW	2	2	4	10	0	0	18
NW	2	13	13	8	0	0	36
NNW	8	19	19	4	0	0	50
Variable	0	0	0	0	0	0	0
Total	164	158	82	25	0	0	429

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: 52

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: April - June 2025
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	11	15	2	0	0	0	28
NNE	11	6	0	0	0	0	17
NE	13	0	0	0	0	0	13
ENE	18	0	0	0	0	0	18
E	12	5	0	0	0	0	17
ESE	4	4	5	0	0	0	13
SE	5	7	0	0	0	0	12
SSE	4	14	5	0	0	0	23
S	4	2	12	2	0	0	20
SSW	2	0	3	2	0	0	7
SW	0	3	10	0	0	0	13
WSW	0	4	8	0	0	0	12
W	0	1	13	2	0	0	16
WNW	0	7	11	4	0	0	22
NW	2	18	8	5	0	0	33
NNW	7	15	10	5	0	0	37
Variable	0	0	0	0	0	0	0
Total	93	101	87	20	0	0	301

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: 52

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: April - June 2025
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	1	1	0	0	0	5
NNE	7	0	0	0	0	0	7
NE	8	0	0	0	0	0	8
ENE	3	0	0	0	0	0	3
E	3	0	0	0	0	0	3
ESE	4	1	0	0	0	0	5
SE	2	11	2	0	0	0	15
SSE	1	5	1	0	0	0	7
S	1	0	1	0	0	0	2
SSW	0	2	1	0	0	0	3
SW	0	1	4	0	0	0	5
WSW	0	2	4	0	0	0	6
W	1	0	7	0	1	0	9
WNW	0	1	3	0	0	0	4
NW	2	5	3	1	0	0	11
NNW	3	7	5	1	0	0	16
Variable	0	0	0	0	0	0	0
Total	38	36	32	2	1	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: 52

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: April - June 2025
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	16	10	0	0	0	0	26
NNE	21	6	0	0	0	0	27
NE	17	2	0	0	0	0	19
ENE	29	0	0	0	0	0	29
E	19	21	1	0	0	0	41
ESE	11	22	7	0	0	0	40
SE	4	33	9	0	0	0	46
SSE	6	22	12	0	0	0	40
S	3	19	19	1	0	0	42
SSW	2	3	11	0	0	0	16
SW	0	7	8	0	0	0	15
WSW	3	5	12	1	0	0	21
W	4	16	21	2	0	0	43
WNW	8	32	28	3	0	0	71
NW	12	19	35	4	0	0	70
NNW	14	23	9	4	0	0	50
Variable	0	0	0	0	0	0	0
Total	169	240	172	15	0	0	596

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: 52

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: April - June 2025
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	1	0	0	0	0	11
NNE	21	2	0	0	0	0	23
NE	18	0	0	0	0	0	18
ENE	15	1	0	0	0	0	16
E	21	1	0	0	0	0	22
ESE	17	1	0	0	0	0	18
SE	22	5	0	0	0	0	27
SSE	26	20	2	0	0	0	48
S	17	18	1	0	0	0	36
SSW	12	5	3	0	0	0	20
SW	21	19	3	0	0	0	43
WSW	11	31	6	0	0	0	48
W	17	30	1	0	0	0	48
WNW	7	22	1	0	0	0	30
NW	7	19	0	0	0	0	26
NNW	6	7	1	0	0	0	14
Variable	0	0	0	0	0	0	0
Total	248	182	18	0	0	0	448

Hours of calm in this stability class: 3
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 52

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: April - June 2025
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	6	0	0	0	0	0	6
NE	7	0	0	0	0	0	7
ENE	4	0	0	0	0	0	4
E	5	1	0	0	0	0	6
ESE	7	0	0	0	0	0	7
SE	8	1	0	0	0	0	9
SSE	3	0	0	0	0	0	3
S	7	0	0	0	0	0	7
SSW	12	1	0	0	0	0	13
SW	11	0	0	0	0	0	11
WSW	14	12	0	0	0	0	26
W	16	8	0	0	0	0	24
WNW	13	0	0	0	0	0	13
NW	4	2	0	0	0	0	6
NNW	7	1	0	0	0	0	8
Variable	0	0	0	0	0	0	0
Total	133	26	0	0	0	0	159

Hours of calm in this stability class: 6
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 52

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: April - June 2025
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	2	0	0	0	0	0	2
NE	4	0	0	0	0	0	4
ENE	4	0	0	0	0	0	4
E	4	0	0	0	0	0	4
ESE	4	0	0	0	0	0	4
SE	2	0	0	0	0	0	2
SSE	1	0	0	0	0	0	1
S	3	0	0	0	0	0	3
SSW	1	0	0	0	0	0	1
SW	13	1	0	0	0	0	14
WSW	16	3	0	0	0	0	19
W	2	1	0	0	0	0	3
WNW	4	0	0	0	0	0	4
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	65	5	0	0	0	0	70

Hours of calm in this stability class: 3
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 52

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: April - June 2025
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	4	0	0	0	0	4
E	0	1	6	0	0	0	7
ESE	0	0	2	0	0	0	2
SE	0	0	2	1	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	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	6	10	1	0	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: 52

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: April - June 2025
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	1	0	0	0	1
NNE	0	1	1	0	0	0	2
NE	0	0	0	0	0	0	0
ENE	0	4	0	0	0	0	4
E	0	2	0	1	0	0	3
ESE	0	2	4	3	0	0	9
SE	0	0	4	2	1	0	7
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	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	9	10	6	2	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: 52

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: April - June 2025
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	1	4	0	0	0	0	5
NNE	0	2	1	0	0	0	3
NE	2	2	0	0	0	0	4
ENE	0	2	0	0	0	0	2
E	0	3	2	1	0	0	6
ESE	0	2	1	1	0	0	4
SE	0	1	4	2	1	0	8
SSE	0	0	0	5	0	0	5
S	0	0	2	4	2	0	8
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	2	1	0	0	3
W	0	0	1	3	3	2	9
WNW	0	0	1	3	5	4	13
NW	0	1	3	5	3	1	13
NNW	0	1	6	2	0	0	9
Variable	0	0	0	0	0	0	0
Total	3	18	23	27	14	7	92

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: 52

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: April - June 2025
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	1	16	15	19	1	0	52
NNE	8	9	7	3	1	0	28
NE	6	7	10	3	0	0	26
ENE	7	27	36	0	0	0	70
E	4	12	36	19	5	0	76
ESE	1	19	31	46	17	0	114
SE	1	13	38	19	5	0	76
SSE	1	1	32	11	2	0	47
S	0	7	23	28	9	0	67
SSW	0	1	13	19	5	0	38
SW	0	2	11	15	2	0	30
WSW	0	3	17	17	5	1	43
W	2	6	13	29	32	5	87
WNW	1	6	12	25	34	5	83
NW	2	30	43	46	34	2	157
NNW	2	35	28	9	0	2	76
Variable	0	0	0	0	0	0	0
Total	36	194	365	308	152	15	1070

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: 52

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: April - June 2025
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	1	4	13	1	0	0	19
NNE	1	4	6	0	0	0	11
NE	2	18	9	0	0	0	29
ENE	4	27	18	1	0	0	50
E	2	21	41	10	8	0	82
ESE	1	13	19	5	9	2	49
SE	1	14	11	0	0	0	26
SSE	1	13	19	1	0	0	34
S	2	33	43	22	3	0	103
SSW	2	13	18	7	3	0	43
SW	1	10	20	10	2	0	43
WSW	1	8	13	21	5	0	48
W	1	5	9	13	4	0	32
WNW	3	7	8	34	6	0	58
NW	2	6	19	25	3	0	55
NNW	3	5	14	6	0	0	28
Variable	0	0	0	0	0	0	0
Total	28	201	280	156	43	2	710

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: 52

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: April - June 2025
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	1	4	0	0	0	6
NNE	0	1	0	0	0	0	1
NE	3	1	0	0	0	0	4
ENE	1	5	1	0	0	0	7
E	2	2	4	0	0	0	8
ESE	1	0	0	0	0	0	1
SE	2	3	2	0	0	0	7
SSE	2	5	5	1	0	0	13
S	2	3	8	0	0	0	13
SSW	0	7	5	0	0	0	12
SW	0	14	16	2	0	0	32
WSW	1	8	18	5	0	0	32
W	0	3	6	1	0	0	10
WNW	1	2	5	9	0	0	17
NW	1	2	10	12	0	0	25
NNW	0	1	3	1	0	0	5
Variable	0	0	0	0	0	0	0
Total	17	58	87	31	0	0	193

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: 52

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: April - June 2025
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	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	1	0	0	0	1
SSW	0	2	1	0	0	0	3
SW	1	0	1	0	0	0	2
WSW	0	1	1	2	0	0	4
W	0	1	0	0	0	0	1
WNW	0	0	1	0	0	0	1
NW	1	0	7	0	0	0	8
NNW	1	0	1	0	0	0	2
Variable	0	0	0	0	0	0	0
Total	3	4	13	2	0	0	22

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: 52

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: July - September 2025
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	17	31	0	0	0	0	48
NNE	27	8	0	0	0	0	35
NE	33	1	0	0	0	0	34
ENE	25	1	0	0	0	0	26
E	14	0	0	0	0	0	14
ESE	2	2	0	0	0	0	4
SE	5	14	2	0	0	0	21
SSE	4	22	13	0	0	0	39
S	0	7	16	0	0	0	23
SSW	4	4	0	0	0	0	8
SW	2	6	0	0	0	0	8
WSW	1	0	1	0	0	0	2
W	3	4	1	0	0	0	8
WNW	0	0	0	0	0	0	0
NW	1	4	1	0	0	0	6
NNW	1	11	2	0	0	0	14
Variable	0	0	0	0	0	0	0
Total	139	115	36	0	0	0	290

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

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: July - September 2025
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	12	19	1	0	0	0	32
NNE	14	1	0	0	0	0	15
NE	9	0	0	0	0	0	9
ENE	10	0	0	0	0	0	10
E	3	0	0	0	0	0	3
ESE	3	1	0	0	0	0	4
SE	3	4	0	0	0	0	7
SSE	0	25	11	1	0	0	37
S	0	17	3	0	0	0	20
SSW	0	1	1	0	0	0	2
SW	0	6	1	0	0	0	7
WSW	0	6	1	0	0	0	7
W	0	4	1	0	0	0	5
WNW	0	8	0	0	0	0	8
NW	1	7	0	0	0	0	8
NNW	5	37	6	0	0	0	48
Variable	0	0	0	0	0	0	0
Total	60	136	25	1	0	0	222

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

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: July - September 2025
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	10	5	0	0	0	0	15
NNE	6	4	0	0	0	0	10
NE	3	0	0	0	0	0	3
ENE	4	0	0	0	0	0	4
E	1	1	0	0	0	0	2
ESE	3	0	0	0	0	0	3
SE	1	3	1	0	0	0	5
SSE	1	12	0	0	0	0	13
S	0	6	2	0	0	0	8
SSW	0	1	1	0	0	0	2
SW	0	2	3	0	0	0	5
WSW	1	1	1	0	0	0	3
W	0	1	0	0	0	0	1
WNW	3	3	0	0	0	0	6
NW	2	8	0	0	0	0	10
NNW	1	18	2	0	0	0	21
Variable	0	0	0	0	0	0	0
Total	36	65	10	0	0	0	111

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

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: July - September 2025
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	43	39	3	0	0	0	85
NNE	30	19	0	0	0	0	49
NE	12	1	0	0	0	0	13
ENE	11	1	0	0	0	0	12
E	9	0	0	0	0	0	9
ESE	6	3	0	0	0	0	9
SE	10	28	3	0	0	0	41
SSE	22	74	7	0	0	0	103
S	19	22	3	0	0	0	44
SSW	6	9	0	0	0	0	15
SW	9	9	6	0	0	0	24
WSW	1	3	1	0	0	0	5
W	5	4	1	0	0	0	10
WNW	12	10	0	0	0	0	22
NW	18	19	1	0	0	0	38
NNW	22	26	4	0	0	0	52
Variable	0	0	0	0	0	0	0
Total	235	267	29	0	0	0	531

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

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: July - September 2025
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	37	10	2	0	0	0	49
NNE	30	18	0	0	0	0	48
NE	10	1	0	0	0	0	11
ENE	9	0	0	0	0	0	9
E	3	1	0	0	0	0	4
ESE	11	1	0	0	0	0	12
SE	30	16	0	0	0	0	46
SSE	43	44	0	0	0	0	87
S	38	33	0	0	0	0	71
SSW	30	10	1	0	0	0	41
SW	29	4	0	0	0	0	33
WSW	24	14	0	0	0	0	38
W	34	15	0	0	0	0	49
WNW	46	21	0	0	0	0	67
NW	39	33	2	0	0	0	74
NNW	24	18	1	0	0	0	43
Variable	0	0	0	0	0	0	0
Total	437	239	6	0	0	0	682

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

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: July - September 2025
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	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	0	0	0	0	0
ESE	2	0	0	0	0	0	2
SE	2	0	0	0	0	0	2
SSE	4	1	0	0	0	0	5
S	5	2	0	0	0	0	7
SSW	13	3	0	0	0	0	16
SW	25	4	0	0	0	0	29
WSW	37	7	0	0	0	0	44
W	33	16	0	0	0	0	49
WNW	25	7	0	0	0	0	32
NW	11	8	0	0	0	0	19
NNW	1	1	1	0	0	0	3
Variable	0	0	0	0	0	0	0
Total	158	50	1	0	0	0	209

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

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: July - September 2025
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	0	1	0	0	0	0	1
SW	39	44	0	0	0	0	83
WSW	47	10	0	0	0	0	57
W	7	5	0	0	0	0	12
WNW	2	0	0	0	0	0	2
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	96	60	0	0	0	0	156

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

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: July - September 2025
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	1	1	2	0	0	0	4
ENE	0	7	12	2	0	0	21
E	0	9	4	0	0	0	13
ESE	0	0	2	0	0	0	2
SE	0	1	0	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	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	1	18	20	2	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: 0

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: July - September 2025
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	2	0	1	0	0	3
NNE	0	1	3	0	0	0	4
NE	0	4	2	0	0	0	6
ENE	0	5	2	0	0	0	7
E	0	9	3	1	0	0	13
ESE	0	1	2	0	0	0	3
SE	0	0	2	0	0	0	2
SSE	0	0	0	2	0	0	2
S	0	0	1	2	0	0	3
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	22	15	6	0	0	43

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

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: July - September 2025
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	7	4	0	0	0	11
NNE	2	6	4	1	0	0	13
NE	1	3	1	0	0	0	5
ENE	2	6	2	0	0	0	10
E	2	11	3	0	0	0	16
ESE	0	5	3	0	0	0	8
SE	0	3	5	0	0	0	8
SSE	0	1	2	5	0	0	8
S	0	2	12	2	0	0	16
SSW	0	0	1	0	0	0	1
SW	0	0	2	0	0	0	2
WSW	0	1	0	0	0	0	1
W	0	0	0	1	0	0	1
WNW	0	0	0	0	0	0	0
NW	0	0	1	1	0	0	2
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	7	45	40	10	0	0	102

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

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: July - September 2025
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	13	21	24	13	0	0	71
NNE	9	18	24	20	2	0	73
NE	9	15	23	7	0	0	54
ENE	18	19	13	1	0	0	51
E	8	31	27	0	0	0	66
ESE	6	20	16	10	0	0	52
SE	4	22	41	14	0	0	81
SSE	2	14	56	7	1	0	80
S	0	19	30	11	0	0	60
SSW	1	4	11	1	0	0	17
SW	1	11	9	8	0	0	29
WSW	4	5	8	5	0	0	22
W	2	6	12	5	0	0	25
WNW	3	5	8	0	0	0	16
NW	2	30	46	5	0	0	83
NNW	9	47	25	2	0	0	83
Variable	0	0	0	0	0	0	0
Total	91	287	373	109	3	0	863

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

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: July - September 2025
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	6	23	23	2	1	0	55
NNE	5	16	20	16	4	0	61
NE	9	20	16	1	0	0	46
ENE	10	23	10	0	0	0	43
E	7	16	16	4	0	0	43
ESE	2	22	14	2	0	0	40
SE	5	19	35	6	0	0	65
SSE	6	27	54	14	0	0	101
S	3	28	53	20	3	0	107
SSW	2	25	21	1	1	0	50
SW	4	14	8	2	0	0	28
WSW	5	8	7	3	0	0	23
W	4	7	5	3	0	0	19
WNW	3	12	11	5	0	0	31
NW	3	18	28	24	2	0	75
NNW	2	17	33	18	0	0	70
Variable	0	0	0	0	0	0	0
Total	76	295	354	121	11	0	857

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

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: July - September 2025
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	11	2	0	0	0	15
NNE	3	10	4	1	0	0	18
NE	2	8	0	0	0	0	10
ENE	1	2	0	0	0	0	3
E	2	2	0	0	0	0	4
ESE	1	1	0	0	0	0	2
SE	3	6	3	0	0	0	12
SSE	3	6	1	0	0	0	10
S	3	9	4	3	0	0	19
SSW	3	6	5	0	0	0	14
SW	1	10	5	1	0	0	17
WSW	3	2	6	1	0	0	12
W	4	4	8	1	1	0	18
WNW	3	4	5	1	0	0	13
NW	3	10	13	10	0	0	36
NNW	2	8	5	2	0	0	17
Variable	0	0	0	0	0	0	0
Total	39	99	61	20	1	0	220

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

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: July - September 2025
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	3	6	4	0	0	0	13
NNE	1	5	3	0	0	0	9
NE	1	1	0	0	0	0	2
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
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	2	0	0	0	0	0	2
SSW	7	1	0	0	0	0	8
SW	2	0	0	0	0	0	2
WSW	0	5	1	1	0	0	7
W	2	6	2	0	0	0	10
WNW	5	3	0	0	0	0	8
NW	1	6	1	0	0	0	8
NNW	2	4	3	0	0	0	9
Variable	0	0	0	0	0	0	0
Total	29	37	14	1	0	0	81

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: 0

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: October - December2025
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	7	0	0	0	0	7
NNE	7	10	1	0	0	0	18
NE	8	2	0	0	0	0	10
ENE	9	0	0	0	0	0	9
E	8	3	0	0	0	0	11
ESE	2	5	0	0	0	0	7
SE	0	7	0	1	0	0	8
SSE	0	1	3	1	0	0	5
S	0	2	3	0	0	0	5
SSW	0	2	1	0	0	0	3
SW	0	1	0	0	0	0	1
WSW	0	0	0	1	0	0	1
W	0	1	2	0	0	0	3
WNW	0	1	4	0	0	0	5
NW	0	0	1	0	0	0	1
NNW	0	0	3	0	0	0	3
Variable	0	0	0	0	0	0	0
Total	34	42	18	3	0	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: 5

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: October - December2025
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	2	5	1	0	0	0	8
NNE	5	6	2	0	0	0	13
NE	3	0	0	0	0	0	3
ENE	2	0	0	0	0	0	2
E	3	0	0	0	0	0	3
ESE	1	0	0	0	0	0	1
SE	0	5	0	0	0	0	5
SSE	0	3	7	5	0	0	15
S	0	5	3	1	0	0	9
SSW	0	2	3	0	0	0	5
SW	0	0	1	0	0	0	1
WSW	0	0	3	1	0	0	4
W	0	2	10	9	0	0	21
WNW	0	4	17	8	0	0	29
NW	0	3	14	4	0	0	21
NNW	0	6	8	2	0	0	16
Variable	0	0	0	0	0	0	0
Total	16	41	69	30	0	0	156

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: 5

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: October - December2025
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	3	3	0	0	0	7
NNE	0	6	0	0	0	0	6
NE	3	0	0	0	0	0	3
ENE	3	0	0	0	0	0	3
E	2	0	0	0	0	0	2
ESE	1	0	0	0	0	0	1
SE	1	4	0	0	0	0	5
SSE	0	2	0	1	0	0	3
S	0	2	5	0	0	0	7
SSW	0	2	0	0	0	0	2
SW	0	0	0	0	0	0	0
WSW	0	0	1	0	0	0	1
W	0	4	8	6	0	0	18
WNW	0	2	8	7	0	0	17
NW	0	5	13	5	0	0	23
NNW	0	8	6	3	0	0	17
Variable	0	0	0	0	0	0	0
Total	11	38	44	22	0	0	115

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: 5

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: October - December2025
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	15	31	26	0	0	0	72
NNE	10	31	4	0	0	0	45
NE	26	8	0	0	0	0	34
ENE	17	0	0	0	0	0	17
E	18	4	0	0	0	0	22
ESE	9	10	1	0	0	0	20
SE	7	22	6	0	0	0	35
SSE	9	55	12	2	0	0	78
S	8	34	15	0	0	0	57
SSW	7	15	4	0	0	0	26
SW	2	12	7	0	0	0	21
WSW	4	15	20	0	1	0	40
W	3	28	68	21	2	0	122
WNW	5	23	64	25	0	0	117
NW	10	41	50	17	0	0	118
NNW	4	26	54	3	0	0	87
Variable	0	0	0	0	0	0	0
Total	154	355	331	68	3	0	911

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

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: October - December2025
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	15	4	0	0	0	0	19
NNE	12	8	0	0	0	0	20
NE	15	5	0	0	0	0	20
ENE	11	1	0	0	0	0	12
E	37	1	0	0	0	0	38
ESE	27	3	0	0	0	0	30
SE	25	12	1	0	0	0	38
SSE	18	14	1	0	0	0	33
S	20	17	0	0	0	0	37
SSW	8	11	0	0	0	0	19
SW	19	21	8	0	0	0	48
WSW	16	55	19	0	0	0	90
W	19	51	14	0	0	0	84
WNW	15	34	3	0	0	0	52
NW	14	21	3	0	0	0	38
NNW	8	6	6	0	0	0	20
Variable	0	0	0	0	0	0	0
Total	279	264	55	0	0	0	598

Hours of calm in this stability class: 31
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 5

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: October - December2025
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	1	0	0	0	0	0	1
NNE	1	0	0	0	0	0	1
NE	3	0	0	0	0	0	3
ENE	5	0	0	0	0	0	5
E	8	0	0	0	0	0	8
ESE	5	0	0	0	0	0	5
SE	3	1	0	0	0	0	4
SSE	3	0	0	0	0	0	3
S	3	0	0	0	0	0	3
SSW	4	1	0	0	0	0	5
SW	32	3	0	0	0	0	35
WSW	31	18	2	0	0	0	51
W	27	9	0	0	0	0	36
WNW	14	1	0	0	0	0	15
NW	5	1	0	0	0	0	6
NNW	4	1	0	0	0	0	5
Variable	0	0	0	0	0	0	0
Total	149	35	2	0	0	0	186

Hours of calm in this stability class: 25
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 5

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: October - December2025
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	2	0	0	0	0	0	2
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	1	0	0	0	0	0	1
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	1	0	0	0	0	0	1
SW	15	2	0	0	0	0	17
WSW	25	9	0	0	0	0	34
W	5	1	0	0	0	0	6
WNW	2	0	0	0	0	0	2
NW	0	0	0	0	0	0	0
NNW	4	0	0	0	0	0	4
Variable	0	0	0	0	0	0	0
Total	60	12	0	0	0	0	72

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: 5

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: October - December2025
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	1	0	0	1
NE	0	0	0	0	2	0	2
ENE	0	1	3	0	1	0	5
E	0	2	2	0	0	0	4
ESE	0	1	4	0	0	0	5
SE	0	0	0	1	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	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	4	9	2	3	0	18

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: 5

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: October - December2025
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	1	0	0	0	1
NNE	0	0	1	1	0	0	2
NE	0	2	0	0	0	0	2
ENE	0	1	1	1	0	0	3
E	0	0	0	0	0	0	0
ESE	0	1	0	0	0	0	1
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	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	3	2	0	0	9

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: 5

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: October - December2025
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	6	0	0	0	7
NNE	0	1	2	0	0	0	3
NE	0	1	0	0	0	0	1
ENE	0	2	1	0	1	0	4
E	1	2	0	0	0	0	3
ESE	0	1	1	0	0	0	2
SE	0	0	1	0	0	0	1
SSE	0	0	2	0	0	0	2
S	0	1	2	3	0	0	6
SSW	0	0	2	0	0	0	2
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	2	0	2
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	1	0	1
Variable	0	0	0	0	0	0	0
Total	1	9	17	4	4	0	35

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

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: October - December2025
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	7	26	28	15	0	81
NNE	1	11	17	14	8	1	52
NE	4	4	9	15	8	0	40
ENE	6	10	5	3	0	0	24
E	8	9	4	2	0	0	23
ESE	4	14	4	0	0	0	22
SE	1	10	19	4	0	0	34
SSE	4	8	39	14	4	0	69
S	1	10	40	30	10	0	91
SSW	1	11	14	8	1	0	35
SW	1	4	10	10	0	0	25
WSW	0	1	6	14	2	0	23
W	2	3	20	48	41	30	144
WNW	1	4	16	74	49	39	183
NW	5	9	25	56	42	17	154
NNW	3	17	23	28	24	0	95
Variable	0	0	0	0	0	0	0
Total	47	132	277	348	204	87	1095

Hours of calm in this stability class: 1
Hours of missing wind measurements in this stability class: 16
Hours of missing stability measurements in all stability classes: 5

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: October - December2025
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	1	3	8	6	1	0	19
NNE	0	10	5	5	0	0	20
NE	0	7	7	7	0	0	21
ENE	3	18	5	1	0	0	27
E	2	6	1	2	2	0	13
ESE	1	14	17	0	2	2	36
SE	5	12	20	3	1	0	41
SSE	3	10	27	6	2	1	49
S	3	12	43	15	1	0	74
SSW	2	8	30	10	0	0	50
SW	8	18	17	6	3	0	52
WSW	3	8	13	31	9	0	64
W	2	9	23	53	21	0	108
WNW	0	3	9	34	13	0	59
NW	2	7	21	28	7	1	66
NNW	1	6	18	19	2	0	46
Variable	0	0	0	0	0	0	0
Total	36	151	264	226	64	4	745

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: 5

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: October - December2025
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	3	3	0	0	0	0	6
NNE	1	5	1	0	0	0	7
NE	1	6	1	0	0	0	8
ENE	1	1	1	0	0	0	3
E	4	2	0	0	0	0	6
ESE	1	3	3	0	0	0	7
SE	1	4	3	0	1	0	9
SSE	3	16	11	2	0	0	32
S	0	11	11	1	0	0	23
SSW	2	2	6	0	0	0	10
SW	2	7	5	2	0	0	16
WSW	4	1	13	4	0	0	22
W	1	1	6	21	0	0	29
WNW	2	4	6	12	1	0	25
NW	2	3	3	4	0	0	12
NNW	1	1	3	0	0	0	5
Variable	0	0	0	0	0	0	0
Total	29	70	73	46	2	0	220

Hours of calm in this stability class: 3
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 5

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station

Period of Record: October - December2025
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	4	1	0	0	0	5
NNE	1	2	0	0	0	0	3
NE	0	0	0	0	0	0	0
ENE	1	2	0	0	0	0	3
E	2	0	1	0	0	0	3
ESE	1	1	2	0	0	0	4
SE	0	0	1	0	0	0	1
SSE	0	1	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	2	0	0	5
W	0	0	3	4	0	0	7
WNW	1	2	3	1	0	0	7
NW	0	4	0	0	0	0	4
NNW	3	6	1	0	0	0	10
Variable	0	0	0	0	0	0	0
Total	9	26	14	7	0	0	56

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: 5

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station
33 ft. Wind Speed and Direction

January-December, 2025
150Ft-33Ft Delta-T (F)

Number of Observations = 8588
Values are Percent Occurrence

SPEED	WIND DIRECTION CLASSES																	STABILITY CLASSES							
CLASS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	EU	MU	SU	N	SS	MS	ES	TOTAL
EU	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00							
MU	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00						
C SU	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00					
A N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				0.00				
L SS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					0.00			
M MS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00		
ES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00	
																									0.00
EU	0.45	0.73	0.90	0.90	0.59	0.15	0.20	0.09	0.02	0.06	0.08	0.03	0.09	0.03	0.05	0.12	4.51	4.51							
MU	0.29	0.41	0.35	0.44	0.31	0.12	0.09	0.05	0.05	0.02	0.00	0.00	0.00	0.01	0.03	0.14	2.32		2.32						
1 SU	0.17	0.16	0.20	0.16	0.13	0.09	0.05	0.02	0.02	0.00	0.00	0.02	0.01	0.05	0.05	0.06	1.20			1.20					
- N	0.90	0.77	0.76	0.91	0.63	0.36	0.37	0.56	0.40	0.21	0.15	0.19	0.24	0.44	0.49	0.49	7.86				7.86				
3 SS	0.83	0.76	0.62	0.55	0.80	0.93	1.11	1.15	1.02	0.70	0.91	0.66	0.91	1.04	0.82	0.55	13.34					13.34			
MS	0.17	0.12	0.19	0.21	0.29	0.24	0.22	0.14	0.24	0.38	0.84	1.09	1.00	0.66	0.28	0.15	6.24						6.24		
ES	0.05	0.02	0.08	0.10	0.10	0.09	0.03	0.03	0.09	0.09	0.78	1.15	0.26	0.09	0.07	0.07	3.13							3.13	
																									38.60
EU	0.72	0.43	0.13	0.08	0.29	0.52	0.64	0.44	0.20	0.09	0.15	0.10	0.13	0.06	0.21	0.36	4.56	4.56							
MU	0.54	0.17	0.00	0.00	0.07	0.13	0.29	0.50	0.33	0.06	0.12	0.13	0.15	0.26	0.33	0.78	3.84		3.84						
4 SU	0.10	0.12	0.00	0.00	0.02	0.02	0.26	0.26	0.15	0.06	0.05	0.05	0.14	0.13	0.27	0.45	2.07			2.07					
- N	1.07	0.75	0.17	0.05	0.47	0.65	1.46	2.04	1.14	0.38	0.37	0.43	0.95	1.33	1.22	1.30	13.79				13.79				
7 SS	0.20	0.33	0.07	0.02	0.06	0.14	0.51	1.07	0.99	0.44	0.59	1.70	1.64	1.08	1.08	0.55	10.48					10.48			
MS	0.01	0.00	0.00	0.00	0.02	0.00	0.02	0.01	0.02	0.08	0.12	0.62	0.43	0.10	0.14	0.05	1.63						1.63		
ES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.55	0.28	0.08	0.00	0.00	0.01	0.94							0.94	
																									37.32
EU	0.10	0.02	0.00	0.00	0.00	0.10	0.15	0.31	0.47	0.05	0.01	0.08	0.14	0.14	0.22	0.31	2.12	2.12							
MU	0.05	0.02	0.00	0.00	0.00	0.07	0.02	0.29	0.27	0.10	0.21	0.20	0.44	0.58	0.51	0.35	3.12		3.12						
8 SU	0.05	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.16	0.02	0.12	0.08	0.24	0.28	0.42	0.28	1.72			1.72					
- N	0.40	0.06	0.00	0.00	0.01	0.09	0.48	0.51	0.66	0.20	0.37	0.48	1.65	2.50	2.08	1.15	10.65				10.65				
1 SS	0.02	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.02	0.05	0.15	0.41	0.27	0.06	0.06	0.09	1.20					1.20			
2 MS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.01	0.05						0.05		
ES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00	
																									18.86
EU	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.02	0.02	0.01	0.02	0.03	0.07	0.17	0.15	0.05	0.59	0.59							
1 MU	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.05	0.03	0.01	0.07	0.16	0.26	0.30	0.19	1.14		1.14						
3 SU	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.13	0.20	0.22	0.12	0.68			0.68					
- N	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.07	0.07	0.00	0.00	0.01	0.44	0.77	0.91	0.33	2.61				2.61				
1 SS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					0.00			
8 MS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00		
ES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00	
																									5.02

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station
33 ft. Wind Speed and Direction

January-December, 2025
150Ft-33Ft Delta-T (F)

SPEED	WIND DIRECTION CLASSES																	STABILITY CLASSES							
CLASS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	EU	MU	SU	N	SS	MS	ES	TOTAL
EU	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.02	0.02							
1 MU	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.02	0.00	0.03		0.03						
9 SU	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.02			0.02					
- N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.05	0.00	0.00	0.01	0.02	0.00	0.01	0.00	0.12				0.12				
2 SS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					0.00			
4 MS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00		
ES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00	
																									0.20
EU	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00							
G MU	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00						
T SU	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00					
N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				0.00				
2 SS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					0.00			
4 MS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00		
ES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00	
																									0.00
TOT	6.12	4.87	3.46	3.42	3.81	3.73	6.00	7.78	6.46	3.06	5.60	7.87	9.65	10.26	9.96	7.95	100.00	11.81	10.46	5.69	35.03	25.02	7.92	4.08	100.00

Wind Direction by Stability

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	-STABILITY CLASSES-
1.28	1.19	1.02	0.98	0.88	0.78	1.02	0.87	0.71	0.21	0.27	0.26	0.44	0.42	0.63	0.84	11.81	Extremely Unstable
0.87	0.61	0.35	0.44	0.38	0.31	0.41	0.91	0.69	0.22	0.34	0.40	0.77	1.11	1.20	1.46	10.46	Moderately Unstable
0.33	0.28	0.20	0.16	0.15	0.12	0.34	0.33	0.34	0.08	0.16	0.15	0.54	0.65	0.97	0.91	5.69	Slightly Unstable
2.36	1.57	0.93	0.95	1.11	1.11	2.32	3.20	2.32	0.79	0.90	1.12	3.32	5.04	4.72	3.27	35.03	Neutral
1.05	1.08	0.69	0.57	0.86	1.07	1.63	2.28	2.04	1.19	1.65	2.77	2.82	2.18	1.96	1.19	25.02	Slightly Stable
0.19	0.12	0.19	0.21	0.31	0.24	0.24	0.15	0.27	0.47	0.95	1.75	1.43	0.77	0.42	0.21	7.92	Moderately Stable
0.05	0.02	0.08	0.10	0.10	0.09	0.03	0.03	0.10	0.10	1.33	1.43	0.34	0.09	0.07	0.08	4.08	Extremely Stable

Wind Direction by Wind Speed

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	-WIND SPEED CLASSES-
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	C A L M
2.86	2.97	3.09	3.27	2.86	1.99	2.07	2.05	1.85	1.47	2.76	3.16	2.52	2.33	1.78	1.57	38.60	< 3.5 mph
2.64	1.79	0.37	0.15	0.93	1.47	3.18	4.32	2.84	1.13	1.94	3.31	3.53	2.96	3.25	3.50	37.32	3.6 - 7.5 mph
0.62	0.10	0.00	0.00	0.01	0.27	0.70	1.21	1.58	0.42	0.86	1.28	2.75	3.56	3.30	2.20	18.86	7.6 - 12.5 mph
0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.17	0.14	0.05	0.03	0.12	0.80	1.40	1.58	0.68	5.02	12.6 - 18.5 mph
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.05	0.00	0.00	0.01	0.06	0.01	0.05	0.00	0.20	18.6 - 24.5 mph
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	> 24.5 mph

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Attachment 3, Meteorological Data

Peach Bottom Nuclear Station
320 ft. Wind Speed and Direction

January-December, 2025
316Ft-33Ft Delta-T (F)

Number of Observations = 8675
Values are Percent Occurrence

SPEED CLASS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	STABILITY CLASSES EU	MU	SU	N	SS	MS	ES	TOTAL
EU	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00							
MU	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00						
C SU	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00					
A N	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				0.00				
L SS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					0.00			
M MS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00		
ES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00	
																									0.00
EU	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01							
MU	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00						
1 SU	0.01	0.02	0.03	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13			0.13					
- N	0.23	0.22	0.28	0.40	0.27	0.15	0.08	0.12	0.01	0.02	0.02	0.07	0.07	0.06	0.13	0.22	2.34				2.34				
3 SS	0.09	0.08	0.14	0.24	0.14	0.06	0.13	0.14	0.15	0.09	0.15	0.12	0.09	0.07	0.09	0.07	1.84					1.84			
MS	0.07	0.05	0.07	0.03	0.09	0.03	0.07	0.09	0.06	0.07	0.05	0.09	0.09	0.07	0.08	0.05	1.06						1.06		
ES	0.03	0.02	0.01	0.01	0.02	0.02	0.01	0.01	0.03	0.08	0.05	0.00	0.02	0.07	0.02	0.07	0.50							0.50	
																									5.88
EU	0.01	0.00	0.02	0.15	0.14	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.36							
MU	0.02	0.02	0.07	0.16	0.14	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46		0.46						
4 SU	0.14	0.12	0.07	0.13	0.22	0.13	0.05	0.01	0.03	0.00	0.00	0.01	0.00	0.00	0.01	0.02	0.93			0.93					
- N	0.59	0.60	0.39	0.85	0.66	0.77	0.67	0.41	0.60	0.24	0.24	0.18	0.24	0.32	0.88	1.26	8.91				8.91				
7 SS	0.40	0.35	0.54	0.82	0.65	0.66	0.67	0.71	0.93	0.69	0.62	0.35	0.31	0.35	0.43	0.41	8.89					8.89			
MS	0.17	0.18	0.17	0.09	0.07	0.05	0.15	0.35	0.32	0.22	0.43	0.17	0.14	0.13	0.17	0.14	2.95						2.95		
ES	0.12	0.08	0.01	0.02	0.00	0.01	0.00	0.05	0.06	0.07	0.03	0.09	0.10	0.07	0.13	0.12	0.96							0.96	
																									23.46
EU	0.00	0.00	0.02	0.17	0.14	0.09	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.45							
MU	0.02	0.06	0.02	0.03	0.03	0.09	0.07	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35		0.35						
8 SU	0.12	0.08	0.01	0.03	0.06	0.06	0.14	0.06	0.22	0.03	0.02	0.02	0.01	0.01	0.05	0.07	0.99			0.99					
- N	0.89	0.65	0.53	0.66	0.95	0.81	1.75	1.79	1.38	0.44	0.46	0.47	0.99	0.86	1.76	1.21	15.60				15.60				
1 SS	0.53	0.36	0.37	0.38	0.78	0.74	0.92	1.42	2.06	0.98	0.73	0.65	0.74	0.61	1.16	0.92	13.35					13.35			
2 MS	0.07	0.06	0.01	0.02	0.05	0.03	0.09	0.22	0.33	0.23	0.38	0.58	0.35	0.21	0.32	0.13	3.08						3.08		
ES	0.06	0.03	0.00	0.00	0.01	0.02	0.01	0.01	0.03	0.02	0.05	0.10	0.08	0.07	0.09	0.06	0.66							0.66	
																									34.47
EU	0.00	0.01	0.00	0.02	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.06							
1 MU	0.01	0.01	0.00	0.01	0.02	0.03	0.02	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17		0.17						
3 SU	0.00	0.01	0.00	0.00	0.01	0.02	0.06	0.12	0.16	0.00	0.00	0.05	0.07	0.05	0.07	0.02	0.63			0.63					
- N	0.78	0.43	0.29	0.05	0.28	0.77	0.77	0.47	1.07	0.36	0.59	0.61	1.84	2.70	1.86	0.66	13.52				13.52				
1 SS	0.12	0.24	0.09	0.02	0.21	0.13	0.17	0.50	0.78	0.41	0.28	0.91	1.21	1.24	1.11	0.58	8.00					8.00			
8 MS	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.03	0.05	0.02	0.16	0.16	0.31	0.25	0.32	0.05	1.37						1.37		
ES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.06	0.08	0.05	0.01	0.00	0.25							0.25	
																									24.01

Attachment 3, Meteorological Data

Peach Bottom Nuclear Station
320 ft. Wind Speed and Direction

January-December, 2025
316Ft-33Ft Delta-T (F)

SPEED	WIND DIRECTION CLASSES																	STABILITY CLASSES							
CLASS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	EU	MU	SU	N	SS	MS	ES	TOTAL
EU	0.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03							
1 MU	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.02		0.02						
9 SU	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.02	0.00	0.01	0.05	0.13	0.17	0.05	0.01	0.46			0.46					
- N	0.18	0.13	0.09	0.00	0.06	0.20	0.14	0.16	0.35	0.08	0.07	0.16	1.04	2.33	1.67	0.50	7.15				7.15				
2 SS	0.02	0.05	0.00	0.00	0.12	0.13	0.05	0.02	0.14	0.06	0.10	0.21	0.32	0.27	0.15	0.02	1.65					1.65			
4 MS	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.03	0.02	0.03	0.01	0.01	0.00	0.13						0.13		
ES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01							0.01	
																									9.45
EU	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00							
G MU	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00						
T SU	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.06	0.01	0.00	0.14			0.14					
N	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.05	0.08	0.01	0.00	0.02	0.73	1.12	0.44	0.03	2.49				2.49				
2 SS	0.00	0.00	0.00	0.00	0.00	0.05	0.02	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.10					0.10			
4 MS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00		
ES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00	
																									2.73
TOT	4.69	3.87	3.29	4.37	5.13	5.12	6.13	6.77	8.93	4.15	4.53	5.15	9.08	11.15	11.03	6.61	100.00	0.91	1.00	3.29	50.01	33.83	8.59	2.37	100.00

Wind Direction by Stability

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	-STABILITY CLASSES-
0.01	0.01	0.08	0.36	0.28	0.12	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.91	Extremely Unstable
0.06	0.09	0.09	0.21	0.20	0.17	0.10	0.02	0.05	0.00	0.00	0.00	0.00	0.01	0.00	0.00	1.00	Moderately Unstable
0.27	0.23	0.12	0.20	0.32	0.21	0.25	0.18	0.44	0.03	0.03	0.13	0.28	0.29	0.18	0.13	3.29	Slightly Unstable
2.67	2.03	1.58	1.96	2.20	2.70	3.41	3.00	3.49	1.15	1.38	1.52	4.91	7.39	6.73	3.87	50.01	Neutral
1.16	1.07	1.14	1.46	1.89	1.75	1.96	2.80	4.07	2.24	1.88	2.22	2.69	2.54	2.95	2.01	33.83	Slightly Stable
0.31	0.30	0.25	0.15	0.21	0.12	0.32	0.69	0.76	0.54	1.05	1.03	0.92	0.67	0.91	0.36	8.59	Moderately Stable
0.21	0.14	0.02	0.03	0.03	0.06	0.02	0.07	0.13	0.18	0.18	0.25	0.29	0.25	0.25	0.24	2.37	Extremely Stable

Wind Direction by Wind Speed

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	-WIND SPEED CLASSES-
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	C A L M
0.44	0.39	0.54	0.71	0.55	0.27	0.29	0.36	0.25	0.27	0.27	0.28	0.28	0.27	0.32	0.40	5.88	< 3.5 mph
1.45	1.35	1.28	2.22	1.87	1.68	1.54	1.53	1.95	1.22	1.33	0.81	0.80	0.86	1.61	1.95	23.46	3.6 - 7.5 mph
1.68	1.23	0.97	1.30	2.02	1.84	3.01	3.49	4.05	1.71	1.64	1.82	2.17	1.76	3.39	2.39	34.47	7.6 - 12.5 mph
0.91	0.71	0.38	0.10	0.52	0.96	1.05	1.14	2.10	0.81	1.07	1.79	3.52	4.29	3.37	1.30	24.01	12.6 - 18.5 mph
0.21	0.17	0.12	0.02	0.17	0.32	0.22	0.18	0.51	0.14	0.23	0.44	1.52	2.79	1.88	0.53	9.45	18.6 - 24.5 mph
0.00	0.01	0.00	0.00	0.00	0.05	0.02	0.06	0.08	0.01	0.00	0.02	0.81	1.18	0.46	0.03	2.73	> 24.5 mph