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SUBJECT: Radiation Dose Assessment Report No. 16
January 1, 2000 through December 31, 2000
Peach Bottom Atomic Power Station Unit Nos. 2 and 3


Gentlemen:

Enclosed is the Radiation Dose Assessment Report No. 16, January 1, 2000 through December 31, 2000 for Peach Bottom Atomic Power Station Unit Nos. 2 and 3.

This report is being submitted in accordance with the reporting requirements of Peach Bottom ODCMS Sections 3.8.E.2 and 3.10.3 applicable during reporting period.

Included is a correction to the previously submitted 1999 Radiation Dose Assessment Report. A description of this error in the summing of the doses from gaseous releases can be found on Page 55 of this report.

Sincerely,


J. Doering
Vice President,
Peach Bottom Atomic Power Station


JD/GLJ/IWS:aa

Enclosure

cc: H. J. Miller, Administrator, Region I, USNRC
A. C. McMurtry, USNRC Senior Resident Inspector, PBAPS
Senior Project Manager, USNRC

CCN# 01-14037

A009

EXELON NUCLEAR
PEACH BOTTOM ATOMIC POWER STATION
UNIT NOS. 2 & 3
DOCKET NOS. 50-277 AND 50-278

RADIATION DOSE
ASSESSMENT REPORT

NO. 16

JANUARY 1, 2000 THROUGH DECEMBER 31, 2000

SUBMITTED TO
THE UNITED STATES NUCLEAR REGULATORY COMMISSION
PURSUANT TO
FACILITY OPERATION LICENSES DPR-44 & DPR-56

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I. EXECUTIVE SUMMARY

In accordance with the reporting requirements of Peach Bottom ODCMS Sections 3.8.E.2 and 3.10.3 applicable during the reporting period, this report summarizes the radiation doses due to radioactive effluent releases from Peach Bottom Atomic Power Station Units 2 and 3 for the period January 1, 2000 through December 31, 2000.

The comparison of the 2000 calculated doses to the appropriate ODCM and 10CFR50 Appendix I Design Objective limits is presented on Table I-1. The maximum offsite total body dose, due to liquid releases was **3.41 E-03 mrem**. The maximum offsite total body dose, due to gaseous releases was **1.08 E-01 mrem**.

Since PBAPS releases and the calculated doses were well within all applicable Radioactive Effluent Technical Specifications, ODCM and 10CFR50 Appendix I design objective limits, it was concluded that doses from PBAPS releases were within 40CFR190, "Environmental Radiation Protection Standards for Nuclear Power Operation" limits.

TABLE I-1

COMPARISON OF 2000 DOSES RESULTING FROM PBAPS
UNITS 2 AND 3 WITH 10CFR50 APPENDIX I DESIGN OBJECTIVES

CATEGORY	DOSE PATHWAY	MAXIMUM DOSE FROM PBAPS	% of A	DESIGN OBJECTIVES REG. GUIDE 1.109 A
I.	Liquid Effluents			
a.	Dose to total body from all pathways	3.41E-03	0.06	3 mrem/yr/unit
b.	Dose to any organ from all pathways	3.48E-03	0.02	10 mrem/yr/unit
II.	Gaseous Effluents *			
a.	Gamma air dose	1.10E-01	0.50	10 mrad/yr/unit
b.	Beta air dose	6.32E-02	0.16	20 mrad/yr/unit
c.	Dose to total body of an individual	1.08 E-01	1.08	5 mrem/yr/unit
d.	Dose to skin of an individual	3.43E-01	1.14	15 mrem/yr/unit
e.	Dose to any organ (thyroid) from all pathways	2.61E-01	0.87	15 mrem/yr/unit

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

II. INTRODUCTION

Peach Bottom Atomic Power Station is located on the western shore of Conowingo Pond in York County, Pennsylvania. The station, two boiling water reactors (3458 MWt), was described in the Updated Final Safety Analysis Report (Ref. 2). Conowingo Pond was the receiving stream for liquid radwaste effluents.

Detailed discussion of the methodology utilized in the report has been provided in a previous report (Ref. 1). Report No. 14 discussed that all future reports will be calculating doses using a bounding analysis (Ref. 6).

III. PEACH BOTTOM LIQUID AND GASEOUS RADWASTE EFFLUENTS

The release of radioactive materials in liquid and gaseous effluents from PBAPS are reported in the Peach Bottom Atomic Power Station Effluent Release Report No. 43 (Ref. 3) per ODCMS 3.10.2

IV. PEACH BOTTOM LAND USE SURVEY

A dairy pasture survey was performed in 2000, which determined the pasture closest to PBAPS in each sector per ODCMS 3.8.E.2. No goat farms were identified within 5 miles of PBAPS and no changes to the ODCM were required as a result of this survey.

V. HYDROLOGY AND METEOROLOGY

A. HYDROLOGY

Travel times and dilution factors were determined based on the daily Conowingo Pond flows in 2000. Daily Pond flows were reviewed to determine a mean monthly Pond flow. Each daily flow value was assigned to one of three Pond flow regimes (Ref. 4). The resulting daily travel times and dilution factors were then averaged to determine a monthly mean travel time and dilution factor for nearest receptor location, 1,500 feet below the discharge (Table V-1).

TABLE V-1

**TRAVEL TIMES AND DILUTION FACTORS
FOR RECEPTOR LOCATION-1500 FEET
BELOW THE PBAPS DISCHARGE, 2000**

Month	Travel Time Hrs	Dilution Factor
January	2.8	1.9
February	2.6	1.7
March	1.5	1.7
April	1.5	1.7
May	1.8	1.8
June	1.8	1.8
July	5.9	1.6
August	6.2	1.6
September	11.8	1.4
October	7.9	1.5
November	11.8	1.4
December	3.5	1.9

B. METEOROLOGY

Section VIII describes in detail the meteorology in the PBAPS region during 2000, affecting the atmospheric dispersion and the deposition of radionuclides from PBAPS gaseous radwaste releases. This meteorology was used for the evaluation of PBAPS Units 2 and 3 gaseous releases.

VI. LIQUID AND GASEOUS PATHWAY DOSE MODELS

A. LIQUID DOSE MODEL

The maximum annual doses to individuals in unrestricted areas that could result from the liquid effluent releases from PBAPS were calculated according to the guidelines in USNRC Regulatory Guide 1.109 (Ref.5) and the models described therein. NRC computer code, LADTAP, was used to perform these dose calculations.

The liquid release pathways that were considered in making these calculations included drinking water, aquatic foods, shoreline usage, swimming, and boating. All pathways were calculated using the equations and dose factors provided in the LADTAP computer code.

A bounding dose analysis method was used to calculate total body, organ, and skin doses due to liquid releases, assuming that all pathways (i.e., drinking water, aquatic foods, shoreline usage, swimming, and boating) existed at the receptor location-1,500 feet below the plant discharge (Figure VI-1). The highest usage factors determined for Conowingo Pond were used for each pathway for conservatism. Table VI-1 below indicates the bounding usage factors for this location. The shoreline width factor was also set at 0.2, the highest factor in Conowingo Pond.

Table VI-1
Bounding Usage Factors for Receptor Location
1500 feet below the Plant Discharge

<u>Factor</u>	<u>Adult</u>	<u>Teen</u>	<u>Child</u>	<u>Infant</u>
Eating Fish (kg/yr)	21	16.9	6.9	0
Drinking Water (l/yr)	730	510	510	330
Shoreline Use (hr/yr)	325	325	14	0
Swimming (hr/yr)	280	280	0	0
Boating (hr/yr)	325	325	67	0

B. GASEOUS PATHWAY MODEL:

The maximum annual doses to individuals in unrestricted areas that could result from the gaseous effluent releases from PBAPS were calculated according to the guidelines in USNRC Regulatory Guide 1.109 (Ref.5) and the models described therein. NRC computer code, GASPAR, was used to perform these dose calculations.

Using GASPAR, two bounding dose calculations were performed for the receptor locations with the highest X/Q from the stack (2068A, 15,000 feet N) and vents (I54A, 1,300 feet E) (Figures VI-1 and VI-2, respectively). Gaseous release pathways considered included external radiation from the air and ground, inhalation and ingestion of vegetation, meat, cow's milk and goat's milk. The inhalation and ingestion pathways were evaluated for the adult, teenager, child, and infant age groups. To assure that this analysis was conservative, it was assumed that all pathways existed at these two locations.

In addition to the bounding dose analysis calculation, an analysis for determining the radiation doses from gaseous effluents to members of the public due to their activities inside the site boundary during 2000 was completed to comply with ODCMS Section 3.10.3. For purposes of this report the boat ramp located 2,100 feet NNW of the PBAPS vents was chosen (Figure VI-1). This on-site location is used for recreational use only. Therefore, no ingestion pathways and continuous occupancy were assumed.

Approximately 375 Ci of unidentified gaseous effluent activity released from PBAPS in 2000 was assigned to Kr-87 and Kr-88 for purposes of calculating doses. These two nuclides have the highest dose potential and therefore, the analysis remains conservative.

FIGURE VI-1

**Locations Where Maximum Exposed Individual Resulting From PBAPS
Liquid and Vent Gaseous Releases Were Evaluated, 2000**

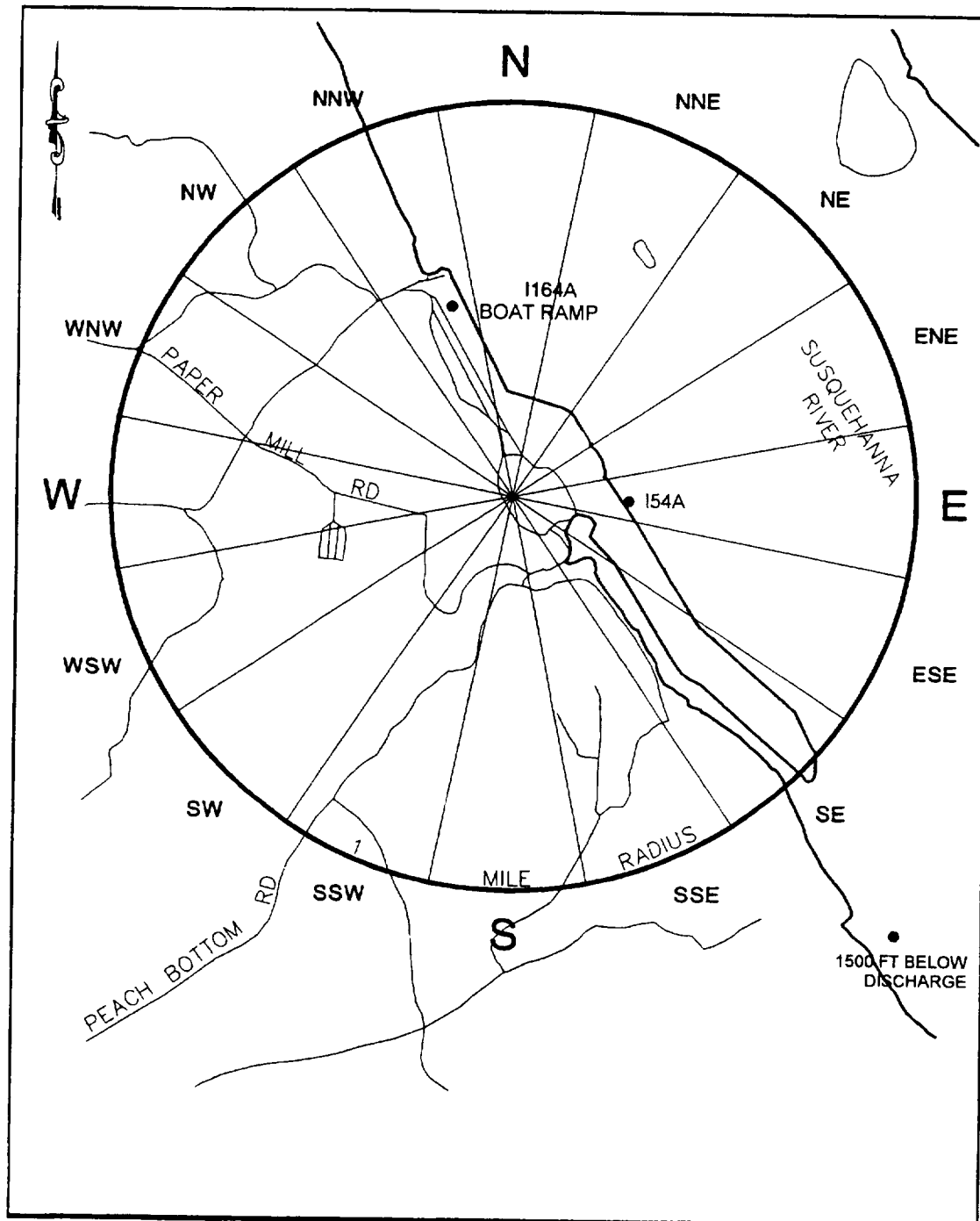
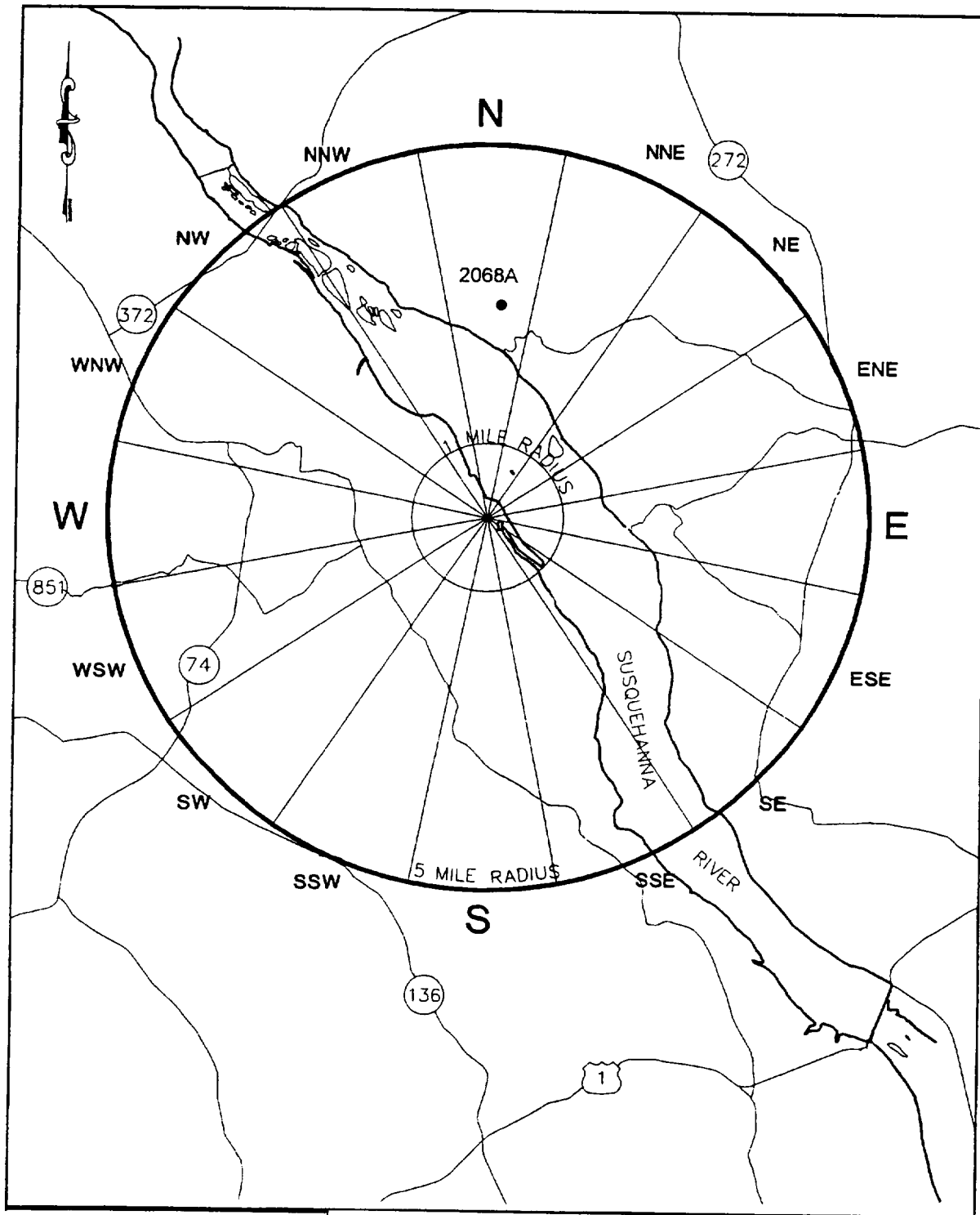


FIGURE VI-2

**Location Where Maximum Exposed Individual Resulting From
PBAPS Stack Gaseous Releases Was Evaluated, 2000**



VII. CALCULATED ANNUAL DOSES

A. Liquid Releases

Table VII-1 list the calculated annual doses through the various pathways to the maximum individual in the adult, teenager, child, and infant age categories at the highest receptor location, 1,500 feet below the discharge, as a result of PBAPS liquid radwaste releases. Maximum doses were as follows:

DOSE PATHWAY	MAXIMUM CALCULATED DOSE (mrem)	PERCENT OF 10CFR50 APPENDIX I DESIGN OBJECTIVE
Child Total Body	3.41 E-03	0.06%
Child Liver	3.48 E-03	0.02%

B. Gaseous Releases

The annual offsite doses to all organs through all pathways by age group was calculated at the two locations with the highest X/Q value for vent releases and stack releases. The two locations were 1,300 feet E of the PBAPS vents (Table VII-2) and 15,000 feet N of the PBAPS stack (Table VII-3). A review of the calculated doses indicated that the offsite location where a person would receive the largest calculated total body, skin and organ doses was 1,300 feet E of the PBAPS vents. This location is in Conowingo Pond. As a result, doses to other geographical areas would be less. Maximum calculated doses were as follows:

DOSE PATHWAY	MAXIMUM CALCULATED DOSE (mrem)	PERCENT OF 10CFR50 APPENDIX I DESIGN OBJECTIVE
Child Total Body	1.08 E-01	1.08%
Child Thyroid	2.61 E-01	0.87%
Child Skin	3.43 E-01	1.14%
Gamma Air Dose	1.10 E-01	0.55%
Beta Air Dose	6.32 E-02	0.16%

C. Non-Occupational Activity

The location where a person would receive the largest calculated total body dose from exposure to PBAPS gaseous releases due to non-occupational activities inside the site boundary was at the boat ramp, approximately 2,100 feet NNW of the PBAPS building vents. The calculated total body dose was **2.78E-02 mrem** and calculated skin dose was **5.19E-02 mrem** assuming continuous occupancy (Table VII-3). If the shoreline recreational usage factor (325 hours per year) was used, a smaller dose would result.

**Peach Bottom Atomic Power Station
2000 Radiation Dose Assessment Report**

**TABLE VII-1
CALCULATED MAXIMUM ANNUAL DOSES DUE TO LIQUID RADWASTE
RELEASES AT 1500 FEET DOWNSTREAM OF PEACH BOTTOM DISCHARGE, 2000**

	SKIN	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI
ADULT								
FISH	0.00E+00	6.40E-05	1.70E-04	1.26E-04	6.40E-05	1.07E-04	7.29E-05	1.17E-04
DRINKING	0.00E+00	2.56E-06	2.47E-03	2.47E-03	2.47E-03	2.47E-03	2.47E-03	2.49E-03
SHORELINE	7.66E-05	6.51E-05	6.51E-05	6.51E-05	6.51E-05	6.51E-05	6.51E-05	6.51E-05
SWIMMING	0.00E+00	7.41E-07	7.41E-07	7.41E-07	7.41E-07	7.41E-07	7.41E-07	7.41E-07
BOATING	0.00E+00	4.23E-07	4.23E-07	4.23E-07	4.23E-07	4.23E-07	4.23E-07	4.23E-07
TOTAL	7.66E-05	1.33E-04	2.71E-03	2.67E-03	2.60E-03	2.64E-03	2.61E-03	2.67E-03
TEENAGER								
FISH	0.00E+00	6.73E-05	1.58E-04	9.01E-05	4.92E-05	9.22E-05	6.00E-05	8.55E-05
DRINKING	0.00E+00	2.51E-06	1.75E-03	1.75E-03	1.74E-03	1.75E-03	1.74E-03	1.76E-03
SHORELINE	7.66E-05	6.51E-05	6.51E-05	6.51E-05	6.51E-05	6.51E-05	6.51E-05	6.51E-05
SWIMMING	0.00E+00	7.41E-07	7.41E-07	7.41E-07	7.41E-07	7.41E-07	7.41E-07	7.41E-07
BOATING	0.00E+00	4.23E-07	4.23E-07	4.23E-07	4.23E-07	4.23E-07	4.23E-07	4.23E-07
TOTAL	7.66E-05	1.36E-04	1.97E-03	1.90E-03	1.86E-03	1.90E-03	1.87E-03	1.91E-03
CHILD								
FISH	0.00E+00	8.34E-05	1.36E-04	6.55E-05	4.07E-05	7.63E-05	4.94E-05	5.31E-05
DRINKING	0.00E+00	7.38E-06	3.34E-03	3.34E-03	3.34E-03	3.34E-03	3.34E-03	3.35E-03
SHORELINE	3.30E-06	2.80E-06	2.80E-06	2.80E-06	2.80E-06	2.80E-06	2.80E-06	2.80E-06
BOATING	0.00E+00	8.86E-08	8.86E-08	8.86E-08	8.86E-08	8.86E-08	8.86E-08	8.86E-08
TOTAL	3.30E-06	9.36E-05	3.48E-03	3.41E-03	3.38E-03	3.42E-03	3.39E-03	3.40E-03
INFANT								
FISH	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
DRINKING	0.00E+00	7.97E-06	3.28E-03	3.28E-03	3.28E-03	3.28E-03	3.28E-03	3.28E-03
SHORELINE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	7.97E-06	3.28E-03	3.28E-03	3.28E-03	3.28E-03	3.28E-03	3.28E-03

**Peach Bottom Atomic Power Station
2000 Radiation Dose Assessment Report**

**TABLE VII-2
ANNUAL DOSES TO ALL ORGANS BY PATHWAY AT LOCATION OF HIGHEST
CALCULATED TOTAL BODY DOSE FROM PEACH BOTTOM VENT RELEASES⁽¹⁾, 2000**

LOCATION I54A,1300 FEET EAST

ANNUAL BETA AIR DOSE = 6.32E-02 MILLIRADS
ANNUAL GAMMA AIR DOSE = 1.10E-01 MILLIRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	7.42E-02	7.42E-02	7.42E-02	7.42E-02	7.42E-02	7.42E-02	7.49E-02	1.43E-01
GROUND	8.38E-05	8.38E-05	8.38E-05	8.38E-05	8.38E-05	8.38E-05	8.38E-05	9.87E-05
VEGET								
ADULT	6.86E-03	6.86E-03	1.93E-04	6.83E-03	6.83E-03	7.46E-03	6.83E-03	6.83E-03
TEEN	8.20E-03	8.20E-03	2.89E-04	8.16E-03	8.16E-03	8.71E-03	8.16E-03	8.16E-03
CHILD	1.29E-02	1.28E-02	6.25E-04	1.28E-02	1.28E-02	1.37E-02	1.28E-02	1.28E-02
MEAT								
ADULT	1.08E-03	1.09E-03	5.07E-06	1.08E-03	1.08E-03	1.30E-03	1.08E-03	1.08E-03
TEEN	6.47E-04	6.49E-04	4.02E-06	6.47E-04	6.47E-04	8.00E-04	6.46E-04	6.46E-04
CHILD	7.82E-04	7.82E-04	7.10E-06	7.81E-04	7.82E-04	1.01E-03	7.80E-04	7.80E-04
COW MILK								
ADULT	2.55E-03	2.55E-03	2.63E-05	2.56E-03	2.57E-03	6.98E-03	2.54E-03	2.54E-03
TEEN	3.33E-03	3.32E-03	4.64E-05	3.34E-03	3.35E-03	1.03E-02	3.31E-03	3.31E-03
CHILD	5.26E-03	5.24E-03	1.09E-04	5.28E-03	5.30E-03	1.91E-02	5.23E-03	5.23E-03
INFANT	7.99E-03	7.95E-03	2.07E-04	8.05E-03	8.06E-03	4.17E-02	7.94E-03	7.94E-03
GOATMILK								
ADULT	5.20E-03	5.20E-03	5.91E-05	5.21E-03	5.23E-03	1.23E-02	5.19E-03	5.19E-03
TEEN	6.78E-03	6.77E-03	1.04E-04	6.80E-03	6.83E-03	1.80E-02	6.76E-03	6.76E-03
CHILD	1.07E-02	1.07E-02	2.45E-04	1.07E-02	1.08E-02	3.29E-02	1.07E-02	1.07E-02
INFANT	1.63E-02	1.62E-02	4.59E-04	1.64E-02	1.64E-02	7.02E-02	1.62E-02	1.62E-02
INHAL								
ADULT	4.17E-03	4.18E-03	2.06E-06	4.18E-03	4.18E-03	4.31E-03	4.18E-03	4.17E-03
TEEN	4.20E-03	4.20E-03	2.50E-06	4.20E-03	4.20E-03	4.37E-03	4.21E-03	4.20E-03
CHILD	3.72E-03	3.72E-03	2.81E-06	3.72E-03	3.72E-03	3.91E-03	3.72E-03	3.71E-03
INFANT	2.14E-03	2.14E-03	1.60E-06	2.14E-03	2.14E-03	2.32E-03	2.14E-03	2.14E-03
TOTAL								
ADULT	9.41E-02	9.42E-02	7.46E-02	9.41E-02	9.42E-02	1.07E-01	9.48E-02	1.63E-01
TEEN	9.74E-02	9.74E-02	7.47E-02	9.74E-02	9.75E-02	1.16E-01	9.81E-02	1.66E-01
CHILD	1.08E-01	1.08E-01	7.53E-02	1.08E-01	1.08E-01	1.45E-01	1.08E-01	1.76E-01
INFANT	1.01E-01	1.01E-01	7.50E-02	1.01E-01	1.01E-01	1.89E-01	1.01E-01	1.69E-01

(1) Includes the corresponding dose from Stack releases

**Peach Bottom Atomic Power Station
2000 Radiation Dose Assessment Report**

**TABLE VII-3
ANNUAL DOSES TO ALL ORGANS BY PATHWAY AT LOCATION OF HIGHEST
CALCULATED TOTAL BODY DOSE FROM PEACH BOTTOM STACK RELEASES⁽¹⁾, 2000**

LOCATION 2068A, 15000 FEET NORTH

ANNUAL BETA AIR DOSE = 1.85E-03 MILLIRADS

ANNUAL GAMMA AIR DOSE = 5.39E-03 MILLIRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	3.65E-03	3.65E-03	3.65E-03	3.65E-03	3.65E-03	3.65E-03	3.66E-03	5.77E-03
GROUND	1.57E-05	1.57E-05	1.57E-05	1.57E-05	1.57E-05	1.57E-05	1.57E-05	1.84E-05
VEGET								
ADULT	1.27E-03	1.27E-03	6.14E-05	1.26E-03	1.26E-03	1.40E-03	1.26E-03	1.26E-03
TEEN	1.52E-03	1.52E-03	9.50E-05	1.51E-03	1.51E-03	1.63E-03	1.51E-03	1.51E-03
CHILD	2.38E-03	2.38E-03	2.15E-04	2.37E-03	2.37E-03	2.55E-03	2.37E-03	2.37E-03
MEAT								
ADULT	2.01E-04	2.02E-04	1.77E-06	2.00E-04	2.01E-04	2.46E-04	2.00E-04	2.00E-04
TEEN	1.20E-04	1.20E-04	1.44E-06	1.20E-04	1.20E-04	1.52E-04	1.19E-04	1.19E-04
CHILD	1.45E-04	1.45E-04	2.61E-06	1.45E-04	1.45E-04	1.94E-04	1.44E-04	1.44E-04
COW MILK								
ADULT	4.72E-04	4.72E-04	7.95E-06	4.73E-04	4.75E-04	1.42E-03	4.70E-04	4.70E-04
TEEN	6.16E-04	6.15E-04	1.42E-05	6.18E-04	6.22E-04	2.11E-03	6.13E-04	6.13E-04
CHILD	9.75E-04	9.70E-04	3.40E-05	9.77E-04	9.83E-04	3.93E-03	9.68E-04	9.68E-04
INFANT	1.48E-03	1.47E-03	6.47E-05	1.49E-03	1.49E-03	8.66E-03	1.47E-03	1.47E-03
GOATMILK								
ADULT	9.63E-04	9.63E-04	1.88E-05	9.64E-04	9.68E-04	2.47E-03	9.60E-04	9.60E-04
TEEN	1.26E-03	1.25E-03	3.36E-05	1.26E-03	1.26E-03	3.64E-03	1.25E-03	1.25E-03
CHILD	1.99E-03	1.98E-03	8.06E-05	1.99E-03	2.00E-03	6.71E-03	1.98E-03	1.98E-03
INFANT	3.02E-03	3.00E-03	1.52E-04	3.03E-03	3.04E-03	1.45E-02	3.00E-03	3.00E-03
INHAL								
ADULT	7.72E-04	7.72E-04	5.35E-07	7.72E-04	7.72E-04	8.03E-04	7.74E-04	7.72E-04
TEEN	7.77E-04	7.77E-04	6.70E-07	7.77E-04	7.77E-04	8.16E-04	7.80E-04	7.77E-04
CHILD	6.87E-04	6.87E-04	7.90E-07	6.87E-04	6.87E-04	7.32E-04	6.89E-04	6.87E-04
INFANT	3.95E-04	3.95E-04	4.71E-07	3.95E-04	3.95E-04	4.36E-04	3.97E-04	3.95E-04
TOTAL								
ADULT	7.34E-03	7.35E-03	3.76E-03	7.34E-03	7.34E-03	1.00E-02	7.34E-03	9.45E-03
TEEN	7.96E-03	7.95E-03	3.81E-03	7.95E-03	7.96E-03	1.20E-02	7.95E-03	1.01E-02
CHILD	1.78E-02	1.78E-02	7.81E-03	1.78E-02	1.78E-02	2.98E-02	1.78E-02	2.20E-02
INFANT	8.56E-03	8.53E-03	3.88E-03	8.58E-03	8.59E-03	2.73E-02	8.55E-03	1.07E-02

(1) Includes the corresponding dose from Vent releases

**Peach Bottom Atomic Power Station
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**TABLE VII-4
ANNUAL WHOLE BODY AND ORGAN DOSES AT LOCATION BOAT RAMP DUE TO
NON-OCCUPATIONAL ACTIVITIES INSIDE THE PEACH BOTTOM SITE BOUNDARY, 2000**

ANNUAL BETA AIR DOSE = 2.20E-02 MILLIRADS
ANNUAL GAMMA AIR DOSE = 3.89E-02 MILLIRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.62E-02	2.62E-02	2.62E-02	2.62E-02	2.62E-02	2.62E-02	2.65E-02	5.03E-02
GROUND	3.10E-05	3.10E-05	3.10E-05	3.10E-05	3.10E-05	3.10E-05	3.10E-05	3.65E-05
VEGET								
ADULT								
TEEN								
CHILD								
MEAT								
ADULT								
TEEN								
CHILD								
COW MILK								
ADULT								
TEEN								
CHILD								
INFANT								
GOATMILK								
ADULT								
TEEN								
CHILD								
INFANT								
INHAL								
ADULT	1.52E-03	1.52E-03	7.72E-07	1.52E-03	1.52E-03	1.57E-03	1.52E-03	1.52E-03
TEEN	1.53E-03	1.53E-03	9.38E-07	1.53E-03	1.53E-03	1.59E-03	1.53E-03	1.53E-03
CHILD	1.35E-03	1.35E-03	1.05E-06	1.35E-03	1.35E-03	1.42E-03	1.35E-03	1.35E-03
INFANT	7.77E-04	7.77E-04	6.02E-07	7.77E-04	7.77E-04	8.44E-04	7.79E-04	7.77E-04
TOTAL								
ADULT	2.78E-02	2.78E-02	2.62E-02	2.78E-02	2.78E-02	2.78E-02	2.81E-02	5.19E-02
TEEN	2.78E-02	2.78E-02	2.62E-02	2.78E-02	2.78E-02	2.78E-02	2.81E-02	5.19E-02
CHILD	2.76E-02	2.76E-02	2.62E-02	2.76E-02	2.76E-02	2.77E-02	2.79E-02	5.17E-02
INFANT	2.70E-02	2.70E-02	2.62E-02	2.70E-02	2.70E-02	2.71E-02	2.73E-02	5.11E-02

VIII. METEOROLOGICAL DATA

The meteorology at the PBAPS site is evaluated by instruments on a meteorological tower on the bluff overlooking the plant and is described in the UFSAR (Ref. 2). All data are summarized using the Pasquill-Gifford system. The following three tables present the annual summary of hourly meteorological data joint frequency distributions of wind speed, wind direction, and atmospheric stability at the three elevations of concern.

<u>Table</u>	<u>Description</u>
VIII-1	Primary Meteorological Tower - 33' Elevation
VIII-2	Primary Meteorological Tower - 75' Elevation
VIII-3	Primary Meteorological Tower - 320' Elevation

TABLE VIII-1

DATA FROM METEOROLOGICAL TOWER - 33-FOOT LEVEL

PEACH BOTTOM 1/00-12/00

JOINT DISTRIBUTION OF WIND DIRECTION AND SPEED
BY ATMOSPHERIC STABILITY CLASS

WIND: 33 FT
DELTA T: (316-33FT)

LAPSE RATE: LE -1.9 DEG C/100M
CLASS A

WIND SPEED GROUPS (MPH)																
0.0-0.5		0.6-3.5		3.6-7.5		7.6-12.5		12.6-18.5		18.6-24.5		GE 24.6		SUM PERCENT		
DIRECTION	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
N	0	0.0	2	0.0	10	0.1	1	0.0	0	0.0	0	0.0	0	0.0	13	0.2
NNE	0	0.0	9	0.1	7	0.1	0	0.0	0	0.0	0	0.0	0	0.0	16	0.2
NE	0	0.0	13	0.2	9	0.1	0	0.0	0	0.0	0	0.0	0	0.0	22	0.3
ENE	0	0.0	20	0.2	7	0.1	0	0.0	0	0.0	0	0.0	0	0.0	27	0.3
E	0	0.0	18	0.2	19	0.2	0	0.0	0	0.0	0	0.0	0	0.0	37	0.4
ESE	0	0.0	8	0.1	16	0.2	1	0.0	0	0.0	0	0.0	0	0.0	25	0.3
SE	0	0.0	1	0.0	23	0.3	1	0.0	0	0.0	0	0.0	0	0.0	25	0.3
SSE	0	0.0	0	0.0	9	0.1	5	0.1	0	0.0	0	0.0	0	0.0	14	0.2
S	0	0.0	0	0.0	1	0.0	10	0.1	0	0.0	0	0.0	0	0.0	11	0.1
SSW	0	0.0	0	0.0	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
SW	0	0.0	0	0.0	2	0.0	1	0.0	0	0.0	0	0.0	0	0.0	3	0.0
WSW	0	0.0	0	0.0	3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.0
W	1	0.0	0	0.0	1	0.0	5	0.1	0	0.0	0	0.0	0	0.0	7	0.1
WNW	0	0.0	1	0.0	0	0.0	2	0.0	0	0.0	0	0.0	0	0.0	3	0.0
NW	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
NNW	0	0.0	1	0.0	1	0.0	2	0.0	0	0.0	0	0.0	0	0.0	4	0.0
	1	0.0	73	0.8	110	1.3	28	0.3	0	0.0	0	0.0	0	0.0	212	2.5

MEAN WIND SPEED: 4.7
MISSING: 0

PEACH BOTTOM 1/00-12/00

JOINT DISTRIBUTION OF WIND DIRECTION AND SPEED
BY ATMOSPHERIC STABILITY CLASS
WIND: 33 FT
DELTA T: (316-33FT)

LAPSE RATE: -1.8 TO -1.7 DEG C/100M
CLASS B

WIND SPEED GROUPS (MPH)																
0.0-0.5		0.6-3.5		3.6-7.5		7.6-12.5		12.6-18.5		18.6-24.5		GE 24.6		SUM PERCENT		
DIRECTION	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
N	0	0.0	3	0.0	9	0.1	0	0.0	0	0.0	0	0.0	0	0.0	12	0.1
NNE	0	0.0	6	0.1	4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	10	0.1
NE	0	0.0	5	0.1	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6	0.1
ENE	0	0.0	21	0.2	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	23	0.3
E	0	0.0	8	0.1	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	9	0.1
ESE	0	0.0	6	0.1	6	0.1	2	0.0	0	0.0	0	0.0	0	0.0	14	0.2
SE	0	0.0	1	0.0	13	0.2	3	0.0	0	0.0	0	0.0	0	0.0	17	0.2
SSE	0	0.0	2	0.0	17	0.2	6	0.1	1	0.0	0	0.0	0	0.0	26	0.3
S	0	0.0	1	0.0	11	0.1	15	0.2	2	0.0	0	0.0	0	0.0	29	0.3
SSW	0	0.0	2	0.0	4	0.0	6	0.1	0	0.0	0	0.0	0	0.0	12	0.1
SW	0	0.0	0	0.0	5	0.1	5	0.1	0	0.0	0	0.0	0	0.0	10	0.1
WSW	0	0.0	0	0.0	3	0.0	1	0.0	0	0.0	0	0.0	0	0.0	4	0.0
W	0	0.0	0	0.0	6	0.1	9	0.1	1	0.0	0	0.0	0	0.0	16	0.2
WNW	0	0.0	0	0.0	9	0.1	5	0.1	5	0.1	0	0.0	0	0.0	19	0.2
NW	0	0.0	1	0.0	2	0.0	7	0.1	2	0.0	0	0.0	0	0.0	12	0.1
NNW	0	0.0	1	0.0	8	0.1	9	0.1	3	0.0	0	0.0	0	0.0	21	0.2
	0	0.0	57	0.7	101	1.2	68	0.8	14	0.2	0	0.0	0	0.0	240	2.8

MEAN WIND SPEED: 6.5
MISSING: 0

**Peach Bottom Atomic Power Station
2000 Radiation Dose Assessment Report**

PEACH BOTTOM 1/00-12/00

JOINT DISTRIBUTION OF WIND DIRECTION AND SPEED
BY ATMOSPHERIC STABILITY CLASS

WIND: 33 FT
DELTA T: (316-33FT)

LAPSE RATE: -1.6 TO -1.5 DEG C/100M
CLASS C

		WIND SPEED GROUPS (MPH)															
		0.0-0.5		0.6-3.5		3.6-7.5		7.6-12.5		12.6-18.5		18.6-24.5		GE 24.6		SUM PERCENT	
DIRECTION		SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
N		0	0.0	6	0.1	25	0.3	3	0.0	0	0.0	0	0.0	0	0.0	34	0.4
NNE		0	0.0	12	0.1	5	0.1	0	0.0	0	0.0	0	0.0	0	0.0	17	0.2
NE		0	0.0	12	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	12	0.1
ENE		0	0.0	12	0.1	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	13	0.2
E		0	0.0	11	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	11	0.1
ESE		0	0.0	4	0.0	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6	0.1
SE		0	0.0	3	0.0	20	0.2	0	0.0	0	0.0	0	0.0	0	0.0	23	0.3
SSE		0	0.0	3	0.0	27	0.3	7	0.1	2	0.0	0	0.0	0	0.0	39	0.5
S		0	0.0	0	0.0	21	0.2	17	0.2	2	0.0	0	0.0	0	0.0	40	0.5
SSW		0	0.0	1	0.0	6	0.1	3	0.0	1	0.0	0	0.0	0	0.0	11	0.1
SW		0	0.0	2	0.0	13	0.2	6	0.1	1	0.0	0	0.0	0	0.0	22	0.3
WSW		0	0.0	0	0.0	8	0.1	9	0.1	0	0.0	0	0.0	0	0.0	17	0.2
W		0	0.0	2	0.0	5	0.1	23	0.3	4	0.0	1	0.0	0	0.0	35	0.4
WNW		0	0.0	0	0.0	17	0.2	44	0.5	13	0.2	2	0.0	0	0.0	76	0.9
NW		0	0.0	0	0.0	26	0.3	22	0.3	10	0.1	0	0.0	0	0.0	58	0.7
NNW		0	0.0	2	0.0	28	0.3	34	0.4	10	0.1	0	0.0	0	0.0	74	0.9
		0	0.0	70	0.8	204	2.4	168	2.0	43	0.5	3	0.0	0	0.0	488	5.7

MEAN WIND SPEED: 7.4

MISSING: 0

PEACH BOTTOM

1/00-12/00

JOINT DISTRIBUTION OF WIND DIRECTION AND SPEED
BY ATMOSPHERIC STABILITY CLASS

WIND: 33 FT
DELTA T: (316-33FT)

LAPSE RATE: -1.4 TO -0.5 DEG C/100M
CLASS D

WIND SPEED GROUPS (MPH)

	0.0-0.5		0.6-3.5		3.6-7.5		7.6-12.5		12.6-18.5		18.6-24.5		GE 24.6		SUM PERCENT	
DIRECTION	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
N	0	0.0	82	1.0	164	1.9	43	0.5	3	0.0	0	0.0	0	0.0	292	3.4
NNE	0	0.0	102	1.2	42	0.5	3	0.0	0	0.0	0	0.0	0	0.0	147	1.7
NE	0	0.0	128	1.5	60	0.7	0	0.0	0	0.0	0	0.0	0	0.0	188	2.2
ENE	0	0.0	133	1.5	12	0.1	0	0.0	0	0.0	0	0.0	0	0.0	145	1.7
E	0	0.0	110	1.3	14	0.2	0	0.0	0	0.0	0	0.0	0	0.0	124	1.4
ESE	0	0.0	77	0.9	36	0.4	2	0.0	0	0.0	0	0.0	0	0.0	115	1.3
SE	0	0.0	46	0.5	122	1.4	16	0.2	0	0.0	0	0.0	0	0.0	184	2.1
SSE	0	0.0	46	0.5	167	1.9	24	0.3	4	0.0	0	0.0	0	0.0	241	2.8
S	0	0.0	40	0.5	94	1.1	39	0.5	5	0.1	0	0.0	0	0.0	178	2.1
SSW	0	0.0	25	0.3	52	0.6	15	0.2	2	0.0	0	0.0	0	0.0	94	1.1
SW	0	0.0	16	0.2	52	0.6	22	0.3	0	0.0	0	0.0	0	0.0	90	1.0
WSW	0	0.0	13	0.2	54	0.6	41	0.5	6	0.1	0	0.0	0	0.0	114	1.3
W	0	0.0	20	0.2	88	1.0	113	1.3	44	0.5	4	0.0	0	0.0	269	3.1
WNW	0	0.0	32	0.4	116	1.3	211	2.5	74	0.9	2	0.0	0	0.0	435	5.1
NW	0	0.0	43	0.5	198	2.3	247	2.9	102	1.2	4	0.0	0	0.0	594	6.9
NNW	0	0.0	57	0.7	250	2.9	147	1.7	46	0.5	1	0.0	0	0.0	501	5.8
	0	0.0	970	11.3	1521	17.7	923	10.7	286	3.3	11	0.1	0	0.0	3711	43.1

MEAN WIND SPEED: 6.5

MISSING: 0

Peach Bottom Atomic Power Station
2000 Radiation Dose Assessment Report

PEACH BOTTOM 1/00-12/00

JOINT DISTRIBUTION OF WIND DIRECTION AND SPEED
BY ATMOSPHERIC STABILITY CLASS

WIND: 33 FT
DELTA T: (316-33FT)

LAPSE RATE: -0.4 TO 1.5 DEG C/100M
CLASS E

WIND SPEED GROUPS (MPH)																
0.0-0.5		0.6-3.5		3.6-7.5		7.6-12.5		12.6-18.5		18.6-24.5		GE 24.6		SUM PERCENT		
DIRECTION	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
N	0	0.0	74	0.9	48	0.6	0	0.0	0	0.0	0	0.0	0	0.0	122	1.4
NNE	0	0.0	54	0.6	13	0.2	0	0.0	0	0.0	0	0.0	0	0.0	67	0.8
NE	0	0.0	61	0.7	5	0.1	0	0.0	0	0.0	0	0.0	0	0.0	66	0.8
ENE	0	0.0	82	1.0	9	0.1	0	0.0	0	0.0	0	0.0	0	0.0	91	1.1
E	0	0.0	97	1.1	19	0.2	0	0.0	0	0.0	0	0.0	0	0.0	116	1.3
ESE	0	0.0	103	1.2	23	0.3	0	0.0	0	0.0	0	0.0	0	0.0	126	1.5
SE	0	0.0	104	1.2	87	1.0	9	0.1	0	0.0	0	0.0	0	0.0	200	2.3
SSE	0	0.0	112	1.3	103	1.2	22	0.3	0	0.0	0	0.0	0	0.0	237	2.8
S	0	0.0	102	1.2	86	1.0	13	0.2	1	0.0	0	0.0	0	0.0	202	2.3
SSW	0	0.0	90	1.0	64	0.7	4	0.0	1	0.0	0	0.0	0	0.0	159	1.8
SW	0	0.0	88	1.0	48	0.6	5	0.1	0	0.0	0	0.0	0	0.0	141	1.6
WSW	0	0.0	102	1.2	140	1.6	15	0.2	0	0.0	0	0.0	0	0.0	257	3.0
W	0	0.0	89	1.0	198	2.3	55	0.6	1	0.0	0	0.0	0	0.0	343	4.0
WNW	0	0.0	98	1.1	210	2.4	49	0.6	3	0.0	0	0.0	0	0.0	360	4.2
NW	0	0.0	89	1.0	161	1.9	23	0.3	0	0.0	0	0.0	0	0.0	273	3.2
NNW	0	0.0	49	0.6	99	1.1	11	0.1	0	0.0	0	0.0	0	0.0	159	1.8
	0	0.0	1394	16.2	1313	15.2	206	2.4	6	0.1	0	0.0	0	0.0	2919	33.9

MEAN WIND SPEED: 4.1

MISSING: 0

PEACH BOTTOM 1/00-12/00

JOINT DISTRIBUTION OF WIND DIRECTION AND SPEED
BY ATMOSPHERIC STABILITY CLASS

WIND: 33 FT
DELTA T: (316-33FT)

LAPSE RATE: 1.6 TO 4.0 DEG C/100M
CLASS F

WIND SPEED GROUPS (MPH)																	
		0.0-0.5		0.6-3.5		3.6-7.5		7.6-12.5		12.6-18.5		18.6-24.5		GE 24.6		SUM PERCENT	
DIRECTION		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT			
N	0	0.0	10	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	10	0.1	
NNE	0	0.0	10	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	10	0.1	
NE	0	0.0	11	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	11	0.1	
ENE	0	0.0	25	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	25	0.3	
E	0	0.0	28	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	28	0.3	
ESE	0	0.0	30	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	30	0.3	
SE	0	0.0	23	0.3	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	25	0.3	
SSE	0	0.0	16	0.2	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	17	0.2	
S	0	0.0	23	0.3	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	25	0.3	
SSW	0	0.0	29	0.3	10	0.1	0	0.0	0	0.0	0	0.0	0	0.0	39	0.5	
SW	0	0.0	93	1.1	20	0.2	0	0.0	0	0.0	0	0.0	0	0.0	113	1.3	
WSW	0	0.0	118	1.4	84	1.0	1	0.0	0	0.0	0	0.0	0	0.0	203	2.4	
W	0	0.0	72	0.8	47	0.5	0	0.0	0	0.0	0	0.0	0	0.0	119	1.4	
WNW	0	0.0	36	0.4	15	0.2	0	0.0	0	0.0	0	0.0	0	0.0	51	0.6	
NW	0	0.0	21	0.2	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	22	0.3	
NNW	0	0.0	10	0.1	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	12	0.1	
	0	0.0	555	6.4	184	2.1	1	0.0	0	0.0	0	0.0	0	0.0	740	8.6	

MEAN WIND SPEED: 2.9
MISSING: 0

PEACH BOTTOM

1/00-12/00

JOINT DISTRIBUTION OF WIND DIRECTION AND SPEED
BY ATMOSPHERIC STABILITY CLASS
WIND: 33 FT
DELTA T: (316-33FT)

LAPSE RATE: GT 4.0 DEG C/100M
CLASS G

WIND SPEED GROUPS (MPH)																
0.0-0.5		0.6-3.5		3.6-7.5		7.6-12.5		12.6-18.5		18.6-24.5		GE 24.6		SUM PERCENT		
DIRECTION	SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT			
	0	0.0	3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.0
N	0	0.0	4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	0.0
NNE	0	0.0	4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	0.0
NE	0	0.0	4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	0.0
ENE	0	0.0	4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.0
E	0	0.0	3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	8	0.1
ESE	0	0.0	8	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6	0.1
SE	0	0.0	6	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
SSE	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	7	0.1
S	0	0.0	6	0.1	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	10	0.1
SSW	0	0.0	10	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	54	0.6
SW	0	0.0	44	0.5	10	0.1	0	0.0	0	0.0	0	0.0	0	0.0	123	1.4
WSW	0	0.0	89	1.0	34	0.4	0	0.0	0	0.0	0	0.0	0	0.0	47	0.5
W	0	0.0	36	0.4	11	0.1	0	0.0	0	0.0	0	0.0	0	0.0	14	0.2
WNW	0	0.0	14	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	8	0.1
NW	0	0.0	8	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5	0.1
NNW	0	0.0	5	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0		
	0	0.0	245	2.8	56	0.7	0	0.0	0	0.0	0	0.0	0	0.0	301	3.5

MEAN WIND SPEED: 2.7
MISSING: 0

PEACH BOTTOM 1/00-12/00

JOINT DISTRIBUTION OF WIND DIRECTION AND SPEED
BY ATMOSPHERIC STABILITY CLASS

WIND: 33 FT
DELTA T: (316-33FT)

ALL STABILITY CLASSES

		WIND SPEED GROUPS (MPH)															
		0.0-0.5		0.6-3.5		3.6-7.5		7.6-12.5		12.6-18.5		18.6-24.5		GE 24.6		SUM PERCENT	
DIRECTION		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT			
N	0	0.0	180	2.1	256	3.0	47	0.5	3	0.0	0	0.0	0	0.0	486	5.6	
NNE	0	0.0	197	2.3	71	0.8	3	0.0	0	0.0	0	0.0	0	0.0	271	3.1	
NE	0	0.0	234	2.7	75	0.9	0	0.0	0	0.0	0	0.0	0	0.0	309	3.6	
ENE	0	0.0	297	3.4	31	0.4	0	0.0	0	0.0	0	0.0	0	0.0	328	3.8	
E	0	0.0	275	3.2	53	0.6	0	0.0	0	0.0	0	0.0	0	0.0	328	3.8	
ESE	0	0.0	236	2.7	83	1.0	5	0.1	0	0.0	0	0.0	0	0.0	324	3.8	
SE	0	0.0	184	2.1	267	3.1	29	0.3	0	0.0	0	0.0	0	0.0	480	5.6	
SSE	0	0.0	180	2.1	324	3.8	64	0.7	7	0.1	0	0.0	0	0.0	575	6.7	
S	0	0.0	172	2.0	216	2.5	94	1.1	10	0.1	0	0.0	0	0.0	492	5.7	
SSW	0	0.0	157	1.8	138	1.6	28	0.3	4	0.0	0	0.0	0	0.0	327	3.8	
SW	0	0.0	243	2.8	150	1.7	39	0.5	1	0.0	0	0.0	0	0.0	433	5.0	
WSW	0	0.0	322	3.7	326	3.8	67	0.8	6	0.1	0	0.0	0	0.0	721	8.4	
W	1	0.0	219	2.5	356	4.1	205	2.4	50	0.6	5	0.1	0	0.0	836	9.7	
WNW	0	0.0	181	2.1	367	4.3	311	3.6	95	1.1	4	0.0	0	0.0	958	11.1	
NW	0	0.0	162	1.9	388	4.5	299	3.5	114	1.3	4	0.0	0	0.0	967	11.2	
NNW	0	0.0	125	1.5	388	4.5	203	2.4	59	0.7	1	0.0	0	0.0	776	9.0	
		1	0.0	3364	39.1	3489	40.5	1394	16.2	349	4.1	14	0.2	0	0.0	8611	100.0

MISSING HOURS: 173

MEAN WIND SPEED: 5.2

**Peach Bottom Atomic Power Station
2000 Radiation Dose Assessment Report**

PEACH BOTTOM 1/00-12/00 JOINT DISTRIBUTION OF WIND DIRECTION AND SPEED
BY ATMOSPHERIC STABILITY CLASS
WIND: 33 FT
DELTA T: (316-33FT)

DIRECTION VS SPEED ONLY

		WIND SPEED GROUPS (MPH)															
		0.0-0.5		0.6-3.5		3.6-7.5		7.6-12.5		12.6-18.5		18.6-24.5		GE 24.6		SUM PERCENT	
DIRECTION		SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
N	0	0.0		180	2.1	256	2.9	47	0.5	3	0.0	0	0.0	0	0.0	486	5.5
NNE	0	0.0		198	2.3	71	0.8	3	0.0	0	0.0	0	0.0	0	0.0	272	3.1
NE	0	0.0		235	2.7	75	0.9	1	0.0	0	0.0	0	0.0	0	0.0	311	3.5
ENE	0	0.0		300	3.4	31	0.4	0	0.0	0	0.0	0	0.0	0	0.0	331	3.8
E	0	0.0		279	3.2	53	0.6	0	0.0	0	0.0	0	0.0	0	0.0	332	3.8
ESE	0	0.0		242	2.8	84	1.0	5	0.1	0	0.0	0	0.0	0	0.0	331	3.8
SE	0	0.0		186	2.1	269	3.1	30	0.3	0	0.0	0	0.0	0	0.0	485	5.5
SSE	0	0.0		184	2.1	327	3.7	66	0.8	7	0.1	0	0.0	0	0.0	584	6.7
S	0	0.0		177	2.0	222	2.5	94	1.1	10	0.1	0	0.0	0	0.0	503	5.7
SSW	0	0.0		159	1.8	142	1.6	28	0.3	4	0.0	0	0.0	0	0.0	333	3.8
SW	0	0.0		246	2.8	155	1.8	44	0.5	1	0.0	0	0.0	0	0.0	446	5.1
WSW	0	0.0		332	3.8	343	3.9	70	0.8	6	0.1	0	0.0	0	0.0	751	8.6
W	1	0.0		226	2.6	373	4.3	219	2.5	50	0.6	5	0.1	0	0.0	874	10.0
WNW	0	0.0		181	2.1	378	4.3	314	3.6	95	1.1	4	0.0	0	0.0	972	11.1
NW	0	0.0		162	1.8	392	4.5	308	3.5	115	1.3	4	0.0	0	0.0	981	11.2
NNW	0	0.0		127	1.4	390	4.4	206	2.3	59	0.7	1	0.0	0	0.0	783	8.9
	1	0.0		3414	38.9	3561	40.6	1435	16.4	350	4.0	14	0.2	0	0.0	8775	100.0

MISSING HOURS: 9

MEAN WIND SPEED: 5.2

TABLE VIII-2

DATA FROM METEOROLOGICAL TOWER - 75-FOOT LEVEL

PEACH BOTTOM 1/00-12/00

JOINT DISTRIBUTION OF WIND DIRECTION AND SPEED
BY ATMOSPHERIC STABILITY CLASS

WIND: 75 FT
DELTA T: (316-33FT)

LAPSE RATE: LE -1.9 DEG C/100M
CLASS A

		WIND SPEED GROUPS (MPH)														SUM PERCENT	
		0.0-0.5		0.6-3.5		3.6-7.5		7.6-12.5		12.6-18.5		18.6-24.5		GE 24.6			
DIRECTION		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT			
N		0	0.0	0	0.0	2	0.0	1	0.0	0	0.0	0	0.0	0	0.0	3	0.0
NNE		0	0.0	1	0.0	12	0.1	4	0.0	0	0.0	0	0.0	0	0.0	17	0.2
NE		0	0.0	6	0.1	19	0.2	0	0.0	0	0.0	0	0.0	0	0.0	25	0.3
ENE		0	0.0	8	0.1	27	0.3	0	0.0	0	0.0	0	0.0	0	0.0	35	0.4
E		0	0.0	5	0.1	33	0.4	2	0.0	0	0.0	0	0.0	0	0.0	40	0.5
ESE		0	0.0	0	0.0	19	0.2	12	0.1	0	0.0	1	0.0	0	0.0	32	0.4
SE		0	0.0	0	0.0	17	0.2	3	0.0	0	0.0	0	0.0	0	0.0	20	0.2
SSE		0	0.0	0	0.0	6	0.1	6	0.1	1	0.0	0	0.0	0	0.0	13	0.2
S		0	0.0	0	0.0	1	0.0	9	0.1	0	0.0	0	0.0	0	0.0	10	0.1
SSW		0	0.0	0	0.0	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
SW		0	0.0	0	0.0	2	0.0	1	0.0	0	0.0	0	0.0	0	0.0	3	0.0
WSW		0	0.0	0	0.0	2	0.0	1	0.0	0	0.0	0	0.0	0	0.0	3	0.0
W		0	0.0	0	0.0	0	0.0	3	0.0	1	0.0	0	0.0	0	0.0	4	0.0
WNW		0	0.0	0	0.0	0	0.0	1	0.0	1	0.0	0	0.0	0	0.0	2	0.0
NW		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
NNW		0	0.0	0	0.0	1	0.0	2	0.0	0	0.0	0	0.0	0	0.0	3	0.0
		0	0.0	20	0.2	143	1.7	45	0.5	3	0.0	1	0.0	0	0.0	212	2.5

MEAN WIND SPEED: 6.0
MISSING: 0

Peach Bottom Atomic Power Station
2000 Radiation Dose Assessment Report

PEACH BOTTOM

1/00-12/00

JOINT DISTRIBUTION OF WIND DIRECTION AND SPEED
BY ATMOSPHERIC STABILITY CLASS
WIND: 75 FT
DELTA T: (316-33FT)

LAPSE RATE: -1.8 TO -1.7 DEG C/100M
CLASS B

WIND SPEED GROUPS (MPH)																
0.0-0.5		0.6-3.5		3.6-7.5		7.6-12.5		12.6-18.5		18.6-24.5		GE 24.6		SUM PERCENT		
DIRECTION	SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT			
	0	0.0	0	0.0	5	0.1	1	0.0	0	0.0	0	0.0	0	0.0	6	0.1
N	0	0.0	6	0.1	6	0.1	1	0.0	0	0.0	0	0.0	0	0.0	13	0.2
NNE	0	0.0	5	0.1	3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	8	0.1
NE	0	0.0	12	0.1	9	0.1	0	0.0	0	0.0	0	0.0	0	0.0	21	0.2
ENE	0	0.0	7	0.1	7	0.1	0	0.0	0	0.0	0	0.0	0	0.0	14	0.2
E	0	0.0	3	0.0	10	0.1	3	0.0	0	0.0	0	0.0	0	0.0	16	0.2
ESE	0	0.0	0	0.0	13	0.2	4	0.0	1	0.0	0	0.0	0	0.0	18	0.2
SE	0	0.0	1	0.0	10	0.1	8	0.1	1	0.0	1	0.0	0	0.0	21	0.2
SSE	0	0.0	0	0.0	7	0.1	20	0.2	2	0.0	0	0.0	0	0.0	29	0.3
S	0	0.0	1	0.0	5	0.1	4	0.0	2	0.0	0	0.0	0	0.0	12	0.1
SSW	0	0.0	0	0.0	2	0.0	6	0.1	1	0.0	0	0.0	0	0.0	9	0.1
SW	0	0.0	0	0.0	2	0.0	4	0.0	0	0.0	0	0.0	0	0.0	6	0.1
WSW	0	0.0	0	0.0	3	0.0	10	0.1	6	0.1	0	0.0	0	0.0	19	0.2
W	0	0.0	0	0.0	4	0.0	7	0.1	5	0.1	0	0.0	0	0.0	16	0.2
WNW	0	0.0	1	0.0	1	0.0	5	0.1	3	0.0	0	0.0	0	0.0	10	0.1
NW	0	0.0	0	0.0	5	0.1	7	0.1	10	0.1	0	0.0	0	0.0	22	0.3
NNW																
	0	0.0	36	0.4	92	1.1	80	0.9	31	0.4	1	0.0	0	0.0	240	2.8

MEAN WIND SPEED: 7.9
MISSING: 0

Peach Bottom Atomic Power Station
2000 Radiation Dose Assessment Report

PEACH BOTTOM 1/00-12/00

JOINT DISTRIBUTION OF WIND DIRECTION AND SPEED
BY ATMOSPHERIC STABILITY CLASS

WIND: 75 FT
DELTA T: (316-33FT)

LAPSE RATE: -1.6 TO -1.5 DEG C/100M
CLASS C

		WIND SPEED GROUPS (MPH)															
		0.0-0.5		0.6-3.5		3.6-7.5		7.6-12.5		12.6-18.5		18.6-24.5		GE 24.6		SUM PERCENT	
DIRECTION		SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
N		0	0.0	4	0.0	18	0.2	2	0.0	0	0.0	0	0.0	0	0.0	24	0.3
NNE		0	0.0	5	0.1	13	0.2	0	0.0	0	0.0	0	0.0	0	0.0	18	0.2
NE		0	0.0	9	0.1	5	0.1	0	0.0	0	0.0	0	0.0	0	0.0	14	0.2
ENE		0	0.0	15	0.2	3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	18	0.2
E		0	0.0	8	0.1	8	0.1	0	0.0	0	0.0	0	0.0	0	0.0	16	0.2
ESE		0	0.0	1	0.0	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.0
SE		0	0.0	2	0.0	21	0.2	3	0.0	0	0.0	0	0.0	0	0.0	26	0.3
SSE		0	0.0	0	0.0	17	0.2	10	0.1	2	0.0	0	0.0	0	0.0	29	0.3
S		0	0.0	0	0.0	11	0.1	29	0.3	2	0.0	2	0.0	0	0.0	44	0.5
SSW		0	0.0	1	0.0	6	0.1	4	0.0	1	0.0	0	0.0	0	0.0	12	0.1
SW		0	0.0	1	0.0	8	0.1	11	0.1	1	0.0	0	0.0	0	0.0	21	0.2
WSW		0	0.0	1	0.0	5	0.1	13	0.2	2	0.0	0	0.0	0	0.0	21	0.2
W		0	0.0	1	0.0	0	0.0	26	0.3	14	0.2	3	0.0	0	0.0	44	0.5
WNW		0	0.0	0	0.0	9	0.1	26	0.3	22	0.3	0	0.0	0	0.0	57	0.7
NW		0	0.0	0	0.0	15	0.2	26	0.3	23	0.3	1	0.0	0	0.0	65	0.8
NNW		0	0.0	0	0.0	19	0.2	35	0.4	21	0.2	1	0.0	0	0.0	76	0.9
		0	0.0	48	0.6	160	1.9	185	2.2	88	1.0	7	0.1	0	0.0	488	5.7

MEAN WIND SPEED: 8.9

MISSING: 0

PEACH BOTTOM 1/00-12/00

JOINT DISTRIBUTION OF WIND DIRECTION AND SPEED
BY ATMOSPHERIC STABILITY CLASS
WIND: 75 FT
DELTA T: (316-33FT)

LAPSE RATE: -1.4 TO -0.5 DEG C/100M
CLASS D

WIND SPEED GROUPS (MPH)																
0.0-0.5		0.6-3.5		3.6-7.5		7.6-12.5		12.6-18.5		18.6-24.5		GE 24.6		SUM PERCENT		
DIRECTION	SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT			
N	0	0.0	34	0.4	104	1.2	79	0.9	12	0.1	1	0.0	0	0.0	230	2.7
NNE	0	0.0	53	0.6	66	0.8	37	0.4	0	0.0	0	0.0	0	0.0	156	1.8
NE	0	0.0	112	1.3	48	0.6	31	0.4	0	0.0	0	0.0	0	0.0	191	2.2
ENE	0	0.0	120	1.4	96	1.1	9	0.1	0	0.0	0	0.0	0	0.0	225	2.6
E	0	0.0	78	0.9	78	0.9	1	0.0	0	0.0	0	0.0	0	0.0	157	1.8
ESE	0	0.0	51	0.6	74	0.9	27	0.3	0	0.0	0	0.0	0	0.0	152	1.8
SE	0	0.0	22	0.3	111	1.3	36	0.4	0	0.0	0	0.0	0	0.0	169	2.0
SSE	0	0.0	28	0.3	139	1.6	44	0.5	3	0.0	1	0.0	0	0.0	215	2.5
S	0	0.0	21	0.2	81	0.9	52	0.6	16	0.2	0	0.0	0	0.0	170	2.0
SSW	0	0.0	12	0.1	53	0.6	24	0.3	7	0.1	0	0.0	0	0.0	96	1.1
SW	0	0.0	11	0.1	40	0.5	41	0.5	3	0.0	0	0.0	0	0.0	95	1.1
WSW	0	0.0	12	0.1	38	0.4	55	0.6	18	0.2	2	0.0	1	0.0	126	1.5
W	0	0.0	10	0.1	57	0.7	104	1.2	79	0.9	22	0.3	0	0.0	272	3.2
WNW	0	0.0	17	0.2	74	0.9	209	2.4	124	1.4	8	0.1	0	0.0	432	5.0
NW	0	0.0	20	0.2	151	1.8	217	2.5	150	1.7	19	0.2	1	0.0	558	6.5
NNW	0	0.0	23	0.3	140	1.6	187	2.2	92	1.1	17	0.2	0	0.0	459	5.3
	0	0.0	624	7.3	1350	15.7	1153	13.4	504	5.9	70	0.8	2	0.0	3703	43.1

MEAN WIND SPEED: 7.9
MISSING: 8

PEACH BOTTOM 1/00-12/00

JOINT DISTRIBUTION OF WIND DIRECTION AND SPEED
BY ATMOSPHERIC STABILITY CLASS

WIND: 75 FT
DELTA T: (316-33FT)

LAPSE RATE: -0.4 TO 1.5 DEG C/100M
CLASS E

		WIND SPEED GROUPS (MPH)														SUM PERCENT	
		0.0-0.5		0.6-3.5		3.6-7.5		7.6-12.5		12.6-18.5		18.6-24.5		GE 24.6			
DIRECTION		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT			
N	0	0.0	33	0.4	70	0.8	12	0.1	1	0.0	0	0.0	0	0.0	116	1.3	
NNE	0	0.0	42	0.5	36	0.4	3	0.0	0	0.0	0	0.0	0	0.0	81	0.9	
NE	0	0.0	71	0.8	27	0.3	2	0.0	0	0.0	0	0.0	0	0.0	100	1.2	
ENE	0	0.0	88	1.0	16	0.2	0	0.0	0	0.0	0	0.0	0	0.0	104	1.2	
E	0	0.0	84	1.0	26	0.3	8	0.1	0	0.0	0	0.0	0	0.0	118	1.4	
ESE	0	0.0	79	0.9	68	0.8	11	0.1	0	0.0	0	0.0	0	0.0	158	1.8	
SE	0	0.0	70	0.8	105	1.2	20	0.2	0	0.0	0	0.0	0	0.0	195	2.3	
SSE	0	0.0	76	0.9	116	1.3	30	0.3	3	0.0	0	0.0	0	0.0	225	2.6	
S	0	0.0	54	0.6	116	1.3	27	0.3	6	0.1	0	0.0	0	0.0	203	2.4	
SSW	0	0.0	51	0.6	105	1.2	12	0.1	1	0.0	0	0.0	0	0.0	169	2.0	
SW	0	0.0	40	0.5	72	0.8	10	0.1	2	0.0	0	0.0	0	0.0	124	1.4	
WSW	0	0.0	45	0.5	97	1.1	62	0.7	1	0.0	0	0.0	0	0.0	205	2.4	
W	0	0.0	51	0.6	137	1.6	127	1.5	6	0.1	0	0.0	0	0.0	321	3.7	
WNW	1	0.0	42	0.5	168	2.0	126	1.5	3	0.0	2	0.0	0	0.0	342	4.0	
NW	0	0.0	44	0.5	160	1.9	79	0.9	3	0.0	0	0.0	0	0.0	286	3.3	
NNW	0	0.0	48	0.6	77	0.9	39	0.5	1	0.0	0	0.0	0	0.0	165	1.9	
		1	0.0	918	10.7	1396	16.2	568	6.6	27	0.3	2	0.0	0	0.0	2912	33.9

MEAN WIND SPEED: 5.3
MISSING: 7

PEACH BOTTOM 1/00-12/00

JOINT DISTRIBUTION OF WIND DIRECTION AND SPEED
BY ATMOSPHERIC STABILITY CLASS

WIND: 75 FT
DELTA T: (316-33FT)

LAPSE RATE: 1.6 TO 4.0 DEG C/100M
CLASS F

		WIND SPEED GROUPS (MPH)															
		0.0-0.5		0.6-3.5		3.6-7.5		7.6-12.5		12.6-18.5		18.6-24.5		GE 24.6		SUM PERCENT	
DIRECTION		SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
N		0	0.0	17	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	17	0.2
NNE		0	0.0	15	0.2	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	16	0.2
NE		0	0.0	18	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	18	0.2
ENE		0	0.0	15	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	15	0.2
E		0	0.0	31	0.4	3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	34	0.4
ESE		0	0.0	37	0.4	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	38	0.4
SE		0	0.0	26	0.3	5	0.1	0	0.0	0	0.0	0	0.0	0	0.0	31	0.4
SSE		0	0.0	21	0.2	9	0.1	0	0.0	0	0.0	0	0.0	0	0.0	30	0.3
S		1	0.0	16	0.2	6	0.1	1	0.0	0	0.0	0	0.0	0	0.0	24	0.3
SSW		0	0.0	23	0.3	15	0.2	1	0.0	0	0.0	0	0.0	0	0.0	39	0.5
SW		1	0.0	21	0.2	26	0.3	1	0.0	0	0.0	0	0.0	0	0.0	49	0.6
WSW		0	0.0	31	0.4	67	0.8	22	0.3	0	0.0	0	0.0	0	0.0	120	1.4
W		0	0.0	46	0.5	62	0.7	17	0.2	0	0.0	0	0.0	0	0.0	125	1.5
WNW		0	0.0	35	0.4	39	0.5	4	0.0	0	0.0	0	0.0	0	0.0	78	0.9
NW		0	0.0	36	0.4	27	0.3	0	0.0	0	0.0	0	0.0	0	0.0	63	0.7
NNW		0	0.0	33	0.4	9	0.1	1	0.0	0	0.0	0	0.0	0	0.0	43	0.5
		2	0.0	421	4.9	270	3.1	47	0.5	0	0.0	0	0.0	0	0.0	740	8.6

MEAN WIND SPEED: 3.6
MISSING: 0

PEACH BOTTOM 1/00-12/00

JOINT DISTRIBUTION OF WIND DIRECTION AND SPEED
BY ATMOSPHERIC STABILITY CLASS

WIND: 75 FT
DELTA T: (316-33FT)

LAPSE RATE: GT 4.0 DEG C/100M
CLASS G

WIND SPEED GROUPS (MPH)																
0.0-0.5			0.6-3.5		3.6-7.5		7.6-12.5		12.6-18.5		18.6-24.5		GE 24.6		SUM PERCENT	
DIRECTION	SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT			
N	0	0.0	11	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	11	0.1
NNE	0	0.0	4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	0.0
NE	1	0.0	10	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	11	0.1
ENE	0	0.0	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
E	0	0.0	8	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	8	0.1
ESE	1	0.0	14	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	15	0.2
SE	0	0.0	4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	0.0
SSE	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
S	0	0.0	3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.0
SSW	0	0.0	4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	0.0
SW	0	0.0	11	0.1	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	12	0.1
WSW	0	0.0	16	0.2	15	0.2	2	0.0	0	0.0	0	0.0	0	0.0	33	0.4
W	0	0.0	43	0.5	38	0.4	0	0.0	0	0.0	0	0.0	0	0.0	81	0.9
WNW	0	0.0	45	0.5	19	0.2	0	0.0	0	0.0	0	0.0	0	0.0	64	0.7
NW	0	0.0	34	0.4	3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	37	0.4
NNW	0	0.0	11	0.1	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	12	0.1

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PEACH BOTTOM

1/00-12/00

JOINT DISTRIBUTION OF WIND DIRECTION AND SPEED
BY ATMOSPHERIC STABILITY CLASS

WIND: 75 FT

DELTA T: (316-33FT)

ALL STABILITY CLASSES

WIND SPEED GROUPS (MPH)																
0.0-0.5		0.6-3.5		3.6-7.5		7.6-12.5		12.6-18.5		18.6-24.5		GE 24.6		SUM PERCENT		
DIRECTION	SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT			
N	0	0.0	99	1.2	199	2.3	95	1.1	13	0.2	1	0.0	0	0.0	407	4.7
NNE	0	0.0	126	1.5	134	1.6	45	0.5	0	0.0	0	0.0	0	0.0	305	3.5
NE	1	0.0	231	2.7	102	1.2	33	0.4	0	0.0	0	0.0	0	0.0	367	4.3
ENE	0	0.0	260	3.0	151	1.8	9	0.1	0	0.0	0	0.0	0	0.0	420	4.9
E	0	0.0	221	2.6	155	1.8	11	0.1	0	0.0	0	0.0	0	0.0	387	4.5
ESE	1	0.0	185	2.2	174	2.0	53	0.6	0	0.0	1	0.0	0	0.0	414	4.8
SE	0	0.0	124	1.4	272	3.2	66	0.8	1	0.0	0	0.0	0	0.0	463	5.4
SSE	0	0.0	126	1.5	297	3.5	98	1.1	10	0.1	2	0.0	0	0.0	533	6.2
S	1	0.0	94	1.1	222	2.6	138	1.6	26	0.3	2	0.0	0	0.0	483	5.6
SSW	0	0.0	92	1.1	186	2.2	45	0.5	11	0.1	0	0.0	0	0.0	334	3.9
SW	1	0.0	84	1.0	151	1.8	70	0.8	7	0.1	0	0.0	0	0.0	313	3.6
WSW	0	0.0	105	1.2	226	2.6	159	1.8	21	0.2	2	0.0	1	0.0	514	6.0
W	0	0.0	151	1.8	297	3.5	287	3.3	106	1.2	25	0.3	0	0.0	866	10.1
WNW	1	0.0	139	1.6	313	3.6	373	4.3	155	1.8	10	0.1	0	0.0	991	11.5
NW	0	0.0	135	1.6	357	4.2	327	3.8	179	2.1	20	0.2	1	0.0	1019	11.9
NNW	0	0.0	115	1.3	252	2.9	271	3.2	124	1.4	18	0.2	0	0.0	780	9.1
	5	0.1	2287	26.6	3488	40.6	2080	24.2	653	7.6	81	0.9	2	0.0	8596	100.0

MISSING HOURS: 188

MEAN WIND SPEED: 6.5

**Peach Bottom Atomic Power Station
2000 Radiation Dose Assessment Report**

PEACH BOTTOM

1/00-12/00

JOINT DISTRIBUTION OF WIND DIRECTION AND SPEED
BY ATMOSPHERIC STABILITY CLASS
WIND: 75 FT
DELTA T: (316-33FT)

DIRECTION VS SPEED ONLY

WIND SPEED GROUPS (MPH)																
0.0-0.5		0.6-3.5		3.6-7.5		7.6-12.5		12.6-18.5		18.6-24.5		GE 24.6		SUM PERCENT		
DIRECTION	SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT			
N	0	0.0	99	1.1	200	2.3	96	1.1	13	0.1	1	0.0	0	0.0	409	4.7
NNE	0	0.0	126	1.4	134	1.5	45	0.5	0	0.0	0	0.0	0	0.0	305	3.5
NE	1	0.0	231	2.6	102	1.2	33	0.4	0	0.0	0	0.0	0	0.0	367	4.2
ENE	0	0.0	263	3.0	151	1.7	10	0.1	0	0.0	0	0.0	0	0.0	424	4.8
E	0	0.0	224	2.6	159	1.8	11	0.1	0	0.0	0	0.0	0	0.0	394	4.5
ESE	1	0.0	187	2.1	176	2.0	53	0.6	0	0.0	1	0.0	0	0.0	418	4.8
SE	0	0.0	125	1.4	274	3.1	66	0.8	1	0.0	0	0.0	0	0.0	466	5.3
SSE	0	0.0	127	1.4	300	3.4	100	1.1	10	0.1	2	0.0	0	0.0	539	6.2
S	1	0.0	102	1.2	228	2.6	138	1.6	26	0.3	2	0.0	0	0.0	497	5.7
SSW	0	0.0	95	1.1	189	2.2	48	0.5	11	0.1	0	0.0	0	0.0	343	3.9
SW	1	0.0	86	1.0	158	1.8	78	0.9	7	0.1	0	0.0	0	0.0	330	3.8
WSW	0	0.0	107	1.2	243	2.8	166	1.9	22	0.3	2	0.0	1	0.0	541	6.2
W	0	0.0	154	1.8	311	3.5	306	3.5	108	1.2	25	0.3	0	0.0	904	10.3
WNW	1	0.0	141	1.6	316	3.6	382	4.4	156	1.8	10	0.1	0	0.0	1006	11.5
NW	0	0.0	135	1.5	360	4.1	336	3.8	182	2.1	21	0.2	1	0.0	1035	11.8
NNW	0	0.0	115	1.3	252	2.9	274	3.1	124	1.4	18	0.2	0	0.0	783	8.9
	5	0.1	2317	26.4	3553	40.6	2142	24.4	660	7.5	82	0.9	2	0.0	8761	100.0
MISSING HOURS:															23	

MEAN WIND SPEED: 6.5

TABLE VIII-3

DATA FROM METEOROLOGICAL TOWER - 320-FOOT LEVEL

Peach Bottom Atomic Power Station
2000 Radiation Dose Assessment Report

PEACH BOTTOM

1/00-12/00

JOINT DISTRIBUTION OF WIND DIRECTION AND SPEED
BY ATMOSPHERIC STABILITY CLASS
WIND: 320 FT
DELTA T: (316-33FT)

LAPSE RATE: LE -1.9 DEG C/100M
CLASS A

WIND SPEED GROUPS (MPH)																
0.0-0.5		0.6-3.5		3.6-7.5		7.6-12.5		12.6-18.5		18.6-24.5		GE 24.6		SUM PERCENT		
DIRECTION	SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT			
	0	0.0	0	0.0	0	0.0	1	0.0	1	0.0	0	0.0	0	0.0	2	0.0
N	0	0.0	1	0.0	5	0.1	4	0.0	1	0.0	0	0.0	0	0.0	11	0.1
NNE	0	0.0	1	0.0	7	0.1	7	0.1	5	0.1	0	0.0	0	0.0	20	0.2
NE	0	0.0	3	0.0	10	0.1	11	0.1	0	0.0	0	0.0	0	0.0	24	0.3
ENE	0	0.0	1	0.0	18	0.2	14	0.2	6	0.1	0	0.0	0	0.0	39	0.5
E	0	0.0	0	0.0	15	0.2	29	0.3	2	0.0	0	0.0	0	0.0	46	0.5
ESE	0	0.0	0	0.0	5	0.1	21	0.2	2	0.0	0	0.0	0	0.0	28	0.3
SE	0	0.0	0	0.0	1	0.0	5	0.1	3	0.0	0	0.0	0	0.0	9	0.1
SSE	0	0.0	0	0.0	0	0.0	11	0.1	3	0.0	0	0.0	0	0.0	14	0.2
S	0	0.0	0	0.0	0	0.0	2	0.0	0	0.0	0	0.0	0	0.0	2	0.0
SSW	0	0.0	0	0.0	2	0.0	0	0.0	2	0.0	0	0.0	0	0.0	4	0.0
SW	0	0.0	0	0.0	2	0.0	1	0.0	0	0.0	0	0.0	0	0.0	3	0.0
WSW	0	0.0	0	0.0	0	0.0	1	0.0	2	0.0	1	0.0	0	0.0	4	0.0
W	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0	0	0.0	2	0.0
WNW	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
NW	0	0.0	0	0.0	1	0.0	2	0.0	1	0.0	0	0.0	0	0.0	4	0.0
NNW																
	0	0.0	6	0.1	66	0.8	110	1.3	28	0.3	2	0.0	0	0.0	212	2.5

MEAN WIND SPEED: 9.1
MISSING: 0

Peach Bottom Atomic Power Station
2000 Radiation Dose Assessment Report

PEACH BOTTOM 1/00-12/00

JOINT DISTRIBUTION OF WIND DIRECTION AND SPEED
BY ATMOSPHERIC STABILITY CLASS

WIND: 320 FT
DELTA T: (316-33FT)

LAPSE RATE: -1.8 TO -1.7 DEG C/100M
CLASS B

		WIND SPEED GROUPS (MPH)														SUM PERCENT	
		0.0-0.5		0.6-3.5		3.6-7.5		7.6-12.5		12.6-18.5		18.6-24.5		GE 24.6			
DIRECTION		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT			
N	0	0.0	0	0.0	3	0.0	3	0.0	0	0.0	0	0.0	0	0.0	6	0.1	
NNE	0	0.0	1	0.0	4	0.0	2	0.0	0	0.0	0	0.0	0	0.0	7	0.1	
NE	0	0.0	5	0.1	6	0.1	1	0.0	0	0.0	1	0.0	0	0.0	13	0.2	
ENE	0	0.0	2	0.0	1	0.0	3	0.0	0	0.0	0	0.0	0	0.0	6	0.1	
E	0	0.0	2	0.0	9	0.1	4	0.0	5	0.1	0	0.0	0	0.0	20	0.2	
ESE	0	0.0	0	0.0	13	0.2	1	0.0	0	0.0	0	0.0	0	0.0	14	0.2	
SE	0	0.0	0	0.0	4	0.0	20	0.2	4	0.0	1	0.0	0	0.0	29	0.3	
SSE	0	0.0	0	0.0	6	0.1	9	0.1	2	0.0	0	0.0	1	0.0	18	0.2	
S	0	0.0	0	0.0	3	0.0	16	0.2	11	0.1	2	0.0	0	0.0	32	0.4	
SSW	0	0.0	0	0.0	4	0.0	3	0.0	3	0.0	0	0.0	0	0.0	10	0.1	
SW	0	0.0	0	0.0	1	0.0	5	0.1	5	0.1	0	0.0	0	0.0	11	0.1	
WSW	0	0.0	0	0.0	1	0.0	5	0.1	0	0.0	0	0.0	0	0.0	6	0.1	
W	0	0.0	0	0.0	2	0.0	5	0.1	8	0.1	4	0.0	0	0.0	19	0.2	
WNW	0	0.0	0	0.0	1	0.0	9	0.1	4	0.0	3	0.0	1	0.0	18	0.2	
NW	0	0.0	0	0.0	3	0.0	3	0.0	5	0.1	4	0.0	0	0.0	15	0.2	
NNW	0	0.0	0	0.0	3	0.0	4	0.0	4	0.0	5	0.1	0	0.0	16	0.2	
		0	0.0	10	0.1	64	0.7	93	1.1	51	0.6	20	0.2	2	0.0	240	2.8

MEAN WIND SPEED: 10.5

MISSING: 0

Peach Bottom Atomic Power Station
2000 Radiation Dose Assessment Report

PEACH BOTTOM

1/00-12/00

JOINT DISTRIBUTION OF WIND DIRECTION AND SPEED
BY ATMOSPHERIC STABILITY CLASS

WIND: 320 FT
DELTA T: (316-33FT)

LAPSE RATE: -1.6 TO -1.5 DEG C/100M
CLASS C

WIND SPEED GROUPS (MPH)

	0.0-0.5		0.6-3.5		3.6-7.5		7.6-12.5		12.6-18.5		18.6-24.5		GE 24.6		SUM PERCENT	
DIRECTION	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
N	0	0.0	1	0.0	8	0.1	8	0.1	1	0.0	1	0.0	0	0.0	19	0.2
NNE	0	0.0	1	0.0	8	0.1	1	0.0	1	0.0	0	0.0	0	0.0	11	0.1
NE	0	0.0	3	0.0	3	0.0	1	0.0	2	0.0	0	0.0	0	0.0	9	0.1
ENE	0	0.0	8	0.1	5	0.1	3	0.0	0	0.0	1	0.0	0	0.0	17	0.2
E	0	0.0	4	0.0	5	0.1	2	0.0	2	0.0	0	0.0	0	0.0	13	0.2
ESE	0	0.0	0	0.0	14	0.2	1	0.0	0	0.0	0	0.0	0	0.0	15	0.2
SE	0	0.0	0	0.0	9	0.1	15	0.2	1	0.0	0	0.0	0	0.0	25	0.3
SSE	0	0.0	0	0.0	8	0.1	7	0.1	1	0.0	1	0.0	0	0.0	17	0.2
S	0	0.0	0	0.0	11	0.1	27	0.3	12	0.1	2	0.0	2	0.0	54	0.6
SSW	0	0.0	0	0.0	5	0.1	7	0.1	2	0.0	1	0.0	0	0.0	15	0.2
SW	0	0.0	1	0.0	5	0.1	14	0.2	2	0.0	1	0.0	0	0.0	23	0.3
WSW	0	0.0	1	0.0	4	0.0	4	0.0	12	0.1	1	0.0	0	0.0	22	0.3
W	0	0.0	0	0.0	4	0.0	13	0.2	16	0.2	11	0.1	5	0.1	49	0.6
WNW	0	0.0	0	0.0	4	0.0	22	0.3	29	0.3	21	0.2	2	0.0	78	0.9
NW	0	0.0	0	0.0	6	0.1	24	0.3	22	0.3	12	0.1	1	0.0	65	0.8
NNW	0	0.0	1	0.0	11	0.1	20	0.2	18	0.2	5	0.1	1	0.0	56	0.7
	0	0.0	20	0.2	110	1.3	169	2.0	121	1.4	57	0.7	11	0.1	488	5.7

MEAN WIND SPEED: 11.6

MISSING: 0

Peach Bottom Atomic Power Station
2000 Radiation Dose Assessment Report

PEACH BOTTOM 1/00-12/00

JOINT DISTRIBUTION OF WIND DIRECTION AND SPEED
BY ATMOSPHERIC STABILITY CLASS

WIND: 320 FT
DELTA T: (316-33FT)

LAPSE RATE: -1.4 TO -0.5 DEG C/100M
CLASS D

WIND SPEED GROUPS (MPH)																
0.0-0.5		0.6-3.5		3.6-7.5		7.6-12.5		12.6-18.5		18.6-24.5		GE 24.6		SUM PERCENT		
DIRECTION	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
N	0	0.0	18	0.2	32	0.4	70	0.8	47	0.6	8	0.1	0	0.0	175	2.0
NNE	0	0.0	13	0.2	45	0.5	52	0.6	37	0.4	1	0.0	0	0.0	148	1.7
NE	0	0.0	18	0.2	35	0.4	28	0.3	41	0.5	3	0.0	0	0.0	125	1.5
ENE	0	0.0	39	0.5	92	1.1	53	0.6	14	0.2	2	0.0	0	0.0	200	2.3
E	0	0.0	30	0.4	76	0.9	82	1.0	47	0.6	1	0.0	0	0.0	236	2.8
ESE	0	0.0	18	0.2	44	0.5	60	0.7	18	0.2	1	0.0	0	0.0	141	1.7
SE	0	0.0	17	0.2	74	0.9	110	1.3	33	0.4	0	0.0	0	0.0	234	2.7
SSE	0	0.0	5	0.1	55	0.6	84	1.0	26	0.3	1	0.0	1	0.0	172	2.0
S	0	0.0	11	0.1	54	0.6	89	1.0	36	0.4	17	0.2	1	0.0	208	2.4
SSW	0	0.0	9	0.1	31	0.4	42	0.5	16	0.2	4	0.0	1	0.0	103	1.2
SW	0	0.0	9	0.1	29	0.3	43	0.5	23	0.3	1	0.0	0	0.0	105	1.2
WSW	0	0.0	3	0.0	20	0.2	49	0.6	44	0.5	14	0.2	1	0.0	131	1.5
W	0	0.0	7	0.1	23	0.3	70	0.8	104	1.2	72	0.8	27	0.3	303	3.5
WNW	0	0.0	8	0.1	37	0.4	65	0.8	187	2.2	111	1.3	22	0.3	430	5.0
NW	0	0.0	6	0.1	87	1.0	142	1.7	185	2.2	146	1.7	34	0.4	600	7.0
NNW	0	0.0	9	0.1	54	0.6	137	1.6	91	1.1	49	0.6	14	0.2	354	4.1
	0	0.0	220	2.6	788	9.2	1176	13.8	949	11.1	431	5.0	101	1.2	3665	42.9

MEAN WIND SPEED: 11.8
MISSING: 46

Peach Bottom Atomic Power Station
2000 Radiation Dose Assessment Report

PEACH BOTTOM

1/00-12/00

JOINT DISTRIBUTION OF WIND DIRECTION AND SPEED
BY ATMOSPHERIC STABILITY CLASS
WIND: 320 FT
DELTA T: (316-33FT)

LAPSE RATE: -0.4 TO 1.5 DEG C/100M
CLASS E

WIND SPEED GROUPS (MPH)																
0.0-0.5		0.6-3.5		3.6-7.5		7.6-12.5		12.6-18.5		18.6-24.5		GE 24.6		SUM PERCENT		
DIRECTION	SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT			
	0	0.0	20	0.2	40	0.5	77	0.9	22	0.3	2	0.0	0	0.0	161	1.9
N	0	0.0	7	0.1	36	0.4	38	0.4	13	0.2	0	0.0	0	0.0	94	1.1
NNE	0	0.0	16	0.2	35	0.4	27	0.3	8	0.1	0	0.0	0	0.0	86	1.0
NE	0	0.0	28	0.3	47	0.6	20	0.2	10	0.1	1	0.0	0	0.0	106	1.2
ENE	0	0.0	25	0.3	76	0.9	30	0.4	7	0.1	2	0.0	3	0.0	143	1.7
E	0	0.0	27	0.3	44	0.5	43	0.5	13	0.2	2	0.0	0	0.0	129	1.5
ESE	0	0.0	9	0.1	83	1.0	86	1.0	20	0.2	1	0.0	0	0.0	199	2.3
SE	0	0.0	10	0.1	64	0.7	105	1.2	27	0.3	5	0.1	0	0.0	211	2.5
SSE	0	0.0	12	0.1	73	0.9	132	1.5	61	0.7	12	0.1	1	0.0	291	3.4
S	0	0.0	22	0.3	46	0.5	72	0.8	32	0.4	2	0.0	0	0.0	174	2.0
SSW	0	0.0	16	0.2	45	0.5	65	0.8	39	0.5	2	0.0	0	0.0	167	2.0
SW	0	0.0	7	0.1	40	0.5	70	0.8	48	0.6	3	0.0	0	0.0	168	2.0
WSW	0	0.0	5	0.1	28	0.3	67	0.8	114	1.3	15	0.2	1	0.0	230	2.7
W	0	0.0	34	0.4	75	0.9	144	1.7	18	0.2	3	0.0	0	0.0	284	3.3
WNW	0	0.0	9	0.1	43	0.5	103	1.2	133	1.6	13	0.2	0	0.0	301	3.5
NW	0	0.0	10	0.1	36	0.4	57	0.7	37	0.4	8	0.1	0	0.0	148	1.7
NNW																
	0	0.0	233	2.7	770	9.0	1067	12.5	728	8.5	86	1.0	8	0.1	2892	33.9

MEAN WIND SPEED: 9.9
MISSING: 27

Peach Bottom Atomic Power Station
2000 Radiation Dose Assessment Report

PEACH BOTTOM

1/00-12/00

JOINT DISTRIBUTION OF WIND DIRECTION AND SPEED
BY ATMOSPHERIC STABILITY CLASS

WIND: 320 FT
DELTA T: (316-33FT)

LAPSE RATE: 1.6 TO 4.0 DEG C/100M
CLASS F

WIND SPEED GROUPS (MPH)																
0.0-0.5		0.6-3.5		3.6-7.5		7.6-12.5		12.6-18.5		18.6-24.5		GE 24.6		SUM PERCENT		
DIRECTION	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
N	0	0.0	3	0.0	12	0.1	10	0.1	1	0.0	0	0.0	0	0.0	26	0.3
NNE	0	0.0	6	0.1	15	0.2	4	0.0	0	0.0	0	0.0	0	0.0	25	0.3
NE	0	0.0	8	0.1	5	0.1	7	0.1	0	0.0	0	0.0	0	0.0	20	0.2
ENE	0	0.0	7	0.1	4	0.0	4	0.0	0	0.0	0	0.0	0	0.0	15	0.2
E	0	0.0	10	0.1	11	0.1	0	0.0	0	0.0	0	0.0	0	0.0	21	0.2
ESE	0	0.0	6	0.1	6	0.1	3	0.0	0	0.0	0	0.0	0	0.0	15	0.2
SE	0	0.0	4	0.0	19	0.2	10	0.1	0	0.0	0	0.0	0	0.0	33	0.4
SSE	0	0.0	4	0.0	15	0.2	21	0.2	0	0.0	0	0.0	0	0.0	40	0.5
S	0	0.0	7	0.1	27	0.3	17	0.2	6	0.1	0	0.0	0	0.0	57	0.7
SSW	0	0.0	6	0.1	28	0.3	20	0.2	5	0.1	1	0.0	0	0.0	60	0.7
SW	0	0.0	3	0.0	37	0.4	30	0.4	16	0.2	0	0.0	0	0.0	86	1.0
WSW	0	0.0	9	0.1	12	0.1	49	0.6	24	0.3	3	0.0	0	0.0	97	1.1
W	0	0.0	6	0.1	11	0.1	30	0.4	35	0.4	1	0.0	0	0.0	83	1.0
WNW	0	0.0	4	0.0	8	0.1	30	0.4	28	0.3	2	0.0	0	0.0	72	0.8
NW	0	0.0	4	0.0	18	0.2	22	0.3	14	0.2	0	0.0	0	0.0	58	0.7
NNW	0	0.0	4	0.0	10	0.1	14	0.2	3	0.0	0	0.0	0	0.0	31	0.4
	0	0.0	91	1.1	238	2.8	271	3.2	132	1.5	7	0.1	0	0.0	739	8.7

MEAN WIND SPEED: 8.5
MISSING: 1

Peach Bottom Atomic Power Station
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PEACH BOTTOM

1/00-12/00

JOINT DISTRIBUTION OF WIND DIRECTION AND SPEED
BY ATMOSPHERIC STABILITY CLASS

WIND: 320 FT
DELTA T: (316-33FT)

LAPSE RATE: GT 4.0 DEG C/100M
CLASS G

		WIND SPEED GROUPS (MPH)														SUM PERCENT	
		0.0-0.5		0.6-3.5		3.6-7.5		7.6-12.5		12.6-18.5		18.6-24.5		GE 24.6			
DIRECTION		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT			
N	0	0.0	10	0.1	4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	14	0.2	
NNE	0	0.0	4	0.0	4	0.0	3	0.0	0	0.0	0	0.0	0	0.0	11	0.1	
NE	0	0.0	5	0.1	4	0.0	1	0.0	0	0.0	0	0.0	0	0.0	10	0.1	
ENE	0	0.0	6	0.1	5	0.1	0	0.0	0	0.0	0	0.0	0	0.0	11	0.1	
E	0	0.0	5	0.1	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	7	0.1	
ESE	0	0.0	3	0.0	4	0.0	2	0.0	1	0.0	0	0.0	0	0.0	10	0.1	
SE	0	0.0	2	0.0	1	0.0	1	0.0	2	0.0	0	0.0	0	0.0	6	0.1	
SSE	0	0.0	2	0.0	3	0.0	3	0.0	0	0.0	0	0.0	0	0.0	8	0.1	
S	0	0.0	2	0.0	15	0.2	1	0.0	1	0.0	0	0.0	0	0.0	19	0.2	
SSW	0	0.0	7	0.1	15	0.2	4	0.0	0	0.0	0	0.0	0	0.0	26	0.3	
SW	0	0.0	3	0.0	9	0.1	3	0.0	1	0.0	0	0.0	0	0.0	16	0.2	
WSW	0	0.0	2	0.0	6	0.1	12	0.1	6	0.1	1	0.0	0	0.0	27	0.3	
W	0	0.0	4	0.0	7	0.1	26	0.3	2	0.0	0	0.0	0	0.0	39	0.5	
WNW	0	0.0	0	0.0	5	0.1	18	0.2	7	0.1	0	0.0	0	0.0	30	0.4	
NW	0	0.0	3	0.0	15	0.2	21	0.2	1	0.0	0	0.0	0	0.0	40	0.5	
NNW	0	0.0	5	0.1	14	0.2	8	0.1	0	0.0	0	0.0	0	0.0	27	0.3	
		0	0.0	63	0.7	113	1.3	103	1.2	21	0.2	1	0.0	0	0.0	301	3.5

MEAN WIND SPEED: 7.0
MISSING: 0

Peach Bottom Atomic Power Station
2000 Radiation Dose Assessment Report

PEACH BOTTOM

1/00-12/00

JOINT DISTRIBUTION OF WIND DIRECTION AND SPEED
BY ATMOSPHERIC STABILITY CLASS

WIND: 320 FT

DELTA T: (316-33FT)

ALL STABILITY CLASSES

		WIND SPEED GROUPS (MPH)															
		0.0-0.5		0.6-3.5		3.6-7.5		7.6-12.5		12.6-18.5		18.6-24.5		GE 24.6		SUM PERCENT	
DIRECTION		SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT	SUM	PERCENT		
N		0	0.0	52	0.6	99	1.2	169	2.0	72	0.8	11	0.1	0	0.0	403	4.7
NNE		0	0.0	33	0.4	117	1.4	104	1.2	52	0.6	1	0.0	0	0.0	307	3.6
NE		0	0.0	56	0.7	95	1.1	72	0.8	56	0.7	4	0.0	0	0.0	283	3.3
ENE		0	0.0	93	1.1	164	1.9	94	1.1	24	0.3	4	0.0	0	0.0	379	4.4
E		0	0.0	77	0.9	197	2.3	132	1.5	67	0.8	3	0.0	3	0.0	479	5.6
ESE		0	0.0	54	0.6	140	1.6	139	1.6	34	0.4	3	0.0	0	0.0	370	4.3
SE		0	0.0	32	0.4	195	2.3	263	3.1	62	0.7	2	0.0	0	0.0	554	6.5
SSE		0	0.0	21	0.2	152	1.8	234	2.7	59	0.7	7	0.1	2	0.0	475	5.6
S		0	0.0	32	0.4	183	2.1	293	3.4	130	1.5	33	0.4	4	0.0	675	7.9
SSW		0	0.0	44	0.5	129	1.5	150	1.8	58	0.7	8	0.1	1	0.0	390	4.6
SW		0	0.0	32	0.4	128	1.5	160	1.9	88	1.0	4	0.0	0	0.0	412	4.8
WSW		0	0.0	22	0.3	85	1.0	190	2.2	134	1.6	22	0.3	1	0.0	454	5.3
W		0	0.0	22	0.3	75	0.9	212	2.5	281	3.3	104	1.2	33	0.4	727	8.5
WNW		0	0.0	22	0.3	89	1.0	220	2.6	399	4.7	156	1.8	28	0.3	914	10.7
NW		0	0.0	22	0.3	172	2.0	315	3.7	360	4.2	175	2.0	35	0.4	1079	12.6
NNW		0	0.0	29	0.3	129	1.5	242	2.8	154	1.8	67	0.8	15	0.2	636	7.4
		0	0.0	643	7.5	2149	25.2	2989	35.0	2030	23.8	604	7.1	122	1.4	8537	100.0

MISSING HOURS: 247

MEAN WIND SPEED: 10.6

Peach Bottom Atomic Power Station
2000 Radiation Dose Assessment Report

PEACH BOTTOM

1/00-12/00

JOINT DISTRIBUTION OF WIND DIRECTION AND SPEED
BY ATMOSPHERIC STABILITY CLASS
WIND: 320 FT
DELTA T: (316-33FT)

DIRECTION VS SPEED ONLY

WIND SPEED GROUPS (MPH)																
0.0-0.5		0.6-3.5		3.6-7.5		7.6-12.5		12.6-18.5		18.6-24.5		GE 24.6		SUM PERCENT		
DIRECTION	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	SUM PERCENT	
N	0	0.0	52	0.6	99	1.1	169	1.9	72	0.8	11	0.1	0	0.0	403	4.6
NNE	0	0.0	33	0.4	117	1.3	104	1.2	52	0.6	1	0.0	0	0.0	307	3.5
NE	0	0.0	56	0.6	95	1.1	72	0.8	56	0.6	4	0.0	0	0.0	283	3.3
ENE	0	0.0	93	1.1	164	1.9	94	1.1	24	0.3	4	0.0	0	0.0	379	4.4
E	0	0.0	77	0.9	199	2.3	134	1.5	67	0.8	3	0.0	3	0.0	483	5.6
ESE	0	0.0	54	0.6	140	1.6	145	1.7	34	0.4	3	0.0	0	0.0	376	4.3
SE	0	0.0	32	0.4	195	2.2	264	3.0	62	0.7	2	0.0	0	0.0	555	6.4
SSE	0	0.0	21	0.2	153	1.8	236	2.7	61	0.7	7	0.1	2	0.0	480	5.5
S	0	0.0	32	0.4	185	2.1	298	3.4	130	1.5	33	0.4	4	0.0	682	7.9
SSW	0	0.0	45	0.5	129	1.5	156	1.8	59	0.7	8	0.1	1	0.0	398	4.6
SW	0	0.0	32	0.4	133	1.5	169	1.9	93	1.1	4	0.0	0	0.0	431	5.0
WSW	0	0.0	22	0.3	90	1.0	199	2.3	137	1.6	23	0.3	1	0.0	472	5.4
W	0	0.0	22	0.3	78	0.9	228	2.6	291	3.4	108	1.2	33	0.4	760	8.8
WNW	0	0.0	22	0.3	90	1.0	226	2.6	405	4.7	159	1.8	29	0.3	931	10.7
NW	0	0.0	22	0.3	172	2.0	318	3.7	372	4.3	179	2.1	35	0.4	1098	12.7
NNW	0	0.0	29	0.3	129	1.5	245	2.8	154	1.8	67	0.8	15	0.2	639	7.4
	0	0.0	644	7.4	2168	25.0	3057	35.2	2069	23.8	616	7.1	123	1.4	8677	100.0
MISSING HOURS:															107	

MEAN WIND SPEED: 10.6

Peach Bottom Atomic Power Station
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PEACH BOTTOM 1/00-12/00

JOINT DISTRIBUTION OF WIND DIRECTION AND SPEED
BY ATMOSPHERIC STABILITY CLASS
WIND: RIVER
DELTA T: (316-33FT)

LAPSE RATE: LE -1.9 DEG C/100M
CLASS A

		WIND SPEED GROUPS (MPH)															
		0.0-0.5		0.6-3.5		3.6-7.5		7.6-12.5		12.6-18.5		18.6-24.5		GE 24.6		SUM PERCENT	
DIRECTION		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT			
N		0	0.0	1	0.0	2	0.0	2	0.0	1	0.0	0	0.0	0	0.0	6	0.1
NNE		0	0.0	1	0.0	4	0.1	3	0.0	0	0.0	0	0.0	0	0.0	8	0.1
NE		0	0.0	1	0.0	3	0.0	5	0.1	0	0.0	0	0.0	0	0.0	9	0.1
ENE		0	0.0	0	0.0	3	0.0	4	0.1	0	0.0	0	0.0	0	0.0	7	0.1
E		0	0.0	3	0.0	4	0.1	6	0.1	0	0.0	0	0.0	0	0.0	13	0.2
ESE		0	0.0	2	0.0	9	0.1	18	0.2	3	0.0	0	0.0	0	0.0	32	0.4
SE		0	0.0	5	0.1	14	0.2	26	0.3	3	0.0	0	0.0	0	0.0	48	0.6
SSE		0	0.0	2	0.0	11	0.1	11	0.1	8	0.1	0	0.0	0	0.0	32	0.4
S		0	0.0	1	0.0	3	0.0	1	0.0	0	0.0	0	0.0	0	0.0	5	0.1
SSW		0	0.0	3	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	0.1
SW		0	0.0	1	0.0	0	0.0	2	0.0	0	0.0	0	0.0	0	0.0	3	0.0
WSW		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
W		0	0.0	0	0.0	0	0.0	1	0.0	1	0.0	0	0.0	0	0.0	2	0.0
WNW		0	0.0	0	0.0	1	0.0	1	0.0	2	0.0	0	0.0	0	0.0	4	0.1
NW		0	0.0	0	0.0	2	0.0	1	0.0	0	0.0	1	0.0	0	0.0	4	0.1
NNW		0	0.0	2	0.0	0	0.0	2	0.0	2	0.0	0	0.0	0	0.0	6	0.1
		0	0.0	22	0.3	57	0.7	83	1.1	20	0.3	1	0.0	0	0.0	183	2.4

MEAN WIND SPEED: 8.2
MISSING: 29

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PEACH BOTTOM

1/00-12/00

JOINT DISTRIBUTION OF WIND DIRECTION AND SPEED
BY ATMOSPHERIC STABILITY CLASS
WIND: RIVER
DELTA T: (316-33FT)

LAPSE RATE: -1.8 TO -1.7 DEG C/100M
CLASS B

WIND SPEED GROUPS (MPH)																
	0.0-0.5		0.6-3.5		3.6-7.5		7.6-12.5		12.6-18.5		18.6-24.5		GE 24.6		SUM PERCENT	
DIRECTION	SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT			
					1	0.0	3	0.0	0	0.0	0	0.0	0	0.0	4	0.1
N	0	0.0	0	0.0											4	0.1
NNE	0	0.0	1	0.0	2	0.0	1	0.0	0	0.0	0	0.0	0	0.0	1	0.0
NE	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.0
ENE	0	0.0	2	0.0	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	10	0.1
E	0	0.0	3	0.0	3	0.0	4	0.1	0	0.0	0	0.0	0	0.0	16	0.2
ESE	0	0.0	2	0.0	10	0.1	4	0.1	0	0.0	0	0.0	0	0.0	38	0.5
SE	0	0.0	5	0.1	8	0.1	17	0.2	8	0.1	0	0.0	0	0.0	32	0.4
SSE	0	0.0	1	0.0	2	0.0	15	0.2	12	0.2	1	0.0	1	0.0	10	0.1
S	0	0.0	1	0.0	0	0.0	6	0.1	2	0.0	1	0.0	0	0.0	4	0.1
SSW	0	0.0	0	0.0	2	0.0	0	0.0	2	0.0	0	0.0	0	0.0	9	0.1
SW	0	0.0	1	0.0	1	0.0	7	0.1	0	0.0	0	0.0	0	0.0	7	0.1
WSW	0	0.0	2	0.0	1	0.0	4	0.1	0	0.0	0	0.0	0	0.0	11	0.1
W	0	0.0	1	0.0	3	0.0	4	0.1	3	0.0	0	0.0	0	0.0	17	0.2
WNW	0	0.0	2	0.0	1	0.0	6	0.1	5	0.1	3	0.0	0	0.0	26	0.3
NW	0	0.0	3	0.0	4	0.1	11	0.1	3	0.0	5	0.1	0	0.0	23	0.3
NNW	0	0.0	2	0.0	4	0.1	2	0.0	4	0.1	10	0.1	1	0.0		

MEAN WIND SPEED: 10.4
MISSING: 25

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PEACH BOTTOM

1/00-12/00

JOINT DISTRIBUTION OF WIND DIRECTION AND SPEED
BY ATMOSPHERIC STABILITY CLASS
WIND: RIVER
DELTA T: (316-33FT)

LAPSE RATE: -1.6 TO -1.5 DEG C/100M
CLASS C

WIND SPEED GROUPS (MPH)																
	0.0-0.5		0.6-3.5		3.6-7.5		7.6-12.5		12.6-18.5		18.6-24.5		GE 24.6		SUM PERCENT	
DIRECTION	SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT			
	0	0.0	2	0.0	5	0.1	4	0.1	0	0.0	0	0.0	0	0.0	11	0.1
N	0	0.0	2	0.0	5	0.1	4	0.1	0	0.0	0	0.0	0	0.0	6	0.1
NNE	0	0.0	3	0.0	1	0.0	2	0.0	0	0.0	0	0.0	0	0.0	5	0.1
NE	0	0.0	4	0.1	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	8	0.1
ENE	0	0.0	2	0.0	3	0.0	2	0.0	1	0.0	0	0.0	0	0.0	11	0.1
E	0	0.0	3	0.0	4	0.1	4	0.1	0	0.0	0	0.0	0	0.0	16	0.2
ESE	0	0.0	1	0.0	13	0.2	2	0.0	0	0.0	0	0.0	0	0.0	42	0.5
SE	0	0.0	1	0.0	11	0.1	26	0.3	4	0.1	0	0.0	1	0.0	43	0.6
SSE	0	0.0	0	0.0	10	0.1	18	0.2	10	0.1	4	0.1	1	0.0	16	0.2
S	0	0.0	1	0.0	4	0.1	8	0.1	3	0.0	0	0.0	0	0.0	9	0.1
SSW	0	0.0	2	0.0	1	0.0	6	0.1	0	0.0	0	0.0	0	0.0	14	0.2
SW	0	0.0	1	0.0	5	0.1	7	0.1	1	0.0	0	0.0	0	0.0	8	0.1
WSW	0	0.0	1	0.0	2	0.0	5	0.1	0	0.0	0	0.0	0	0.0	26	0.3
W	0	0.0	4	0.1	3	0.0	13	0.2	6	0.1	0	0.0	0	0.0	60	0.8
WNW	0	0.0	3	0.0	6	0.1	8	0.1	30	0.4	10	0.1	3	0.0	112	1.5
NW	0	0.0	2	0.0	9	0.1	42	0.5	29	0.4	29	0.4	1	0.0	62	0.8
NNW	0	0.0	3	0.0	13	0.2	13	0.2	17	0.2	10	0.1	6	0.1		

MEAN WIND SPEED: 11.5
MISSING: 39

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PEACH BOTTOM

1/00-12/00

JOINT DISTRIBUTION OF WIND DIRECTION AND SPEED
BY ATMOSPHERIC STABILITY CLASS
WIND: RIVER
DELTA T: (316-33FT)

LAPSE RATE: -1.4 TO -0.5 DEG C/100M
CLASS D

WIND SPEED GROUPS (MPH)																
	0.0-0.5		0.6-3.5		3.6-7.5		7.6-12.5		12.6-18.5		18.6-24.5		GE 24.6		SUM PERCENT	
DIRECTION	SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT			

MEAN WIND SPEED: 10.6
MISSING: 333

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PEACH BOTTOM

1/00-12/00

JOINT DISTRIBUTION OF WIND DIRECTION AND SPEED
BY ATMOSPHERIC STABILITY CLASS
WIND: RIVER
DELTA T: (316-33FT)

LAPSE RATE: -0.4 TO 1.5 DEG C/100M
CLASS E

		WIND SPEED GROUPS (MPH)															
		0.0-0.5		0.6-3.5		3.6-7.5		7.6-12.5		12.6-18.5		18.6-24.5		GE 24.6		SUM PERCENT	
DIRECTION		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT			
N	0	0.0	37	0.5	52	0.7	40	0.5	2	0.0	0	0.0	0	0.0	131	1.7	
NNE	0	0.0	24	0.3	40	0.5	8	0.1	0	0.0	1	0.0	0	0.0	73	0.9	
NE	0	0.0	26	0.3	24	0.3	1	0.0	1	0.0	0	0.0	0	0.0	52	0.7	
ENE	0	0.0	27	0.4	19	0.2	4	0.1	0	0.0	0	0.0	0	0.0	50	0.6	
E	0	0.0	28	0.4	38	0.5	6	0.1	2	0.0	1	0.0	0	0.0	75	1.0	
ESE	0	0.0	38	0.5	78	1.0	50	0.6	2	0.0	3	0.0	0	0.0	171	2.2	
SE	0	0.0	45	0.6	119	1.5	48	0.6	12	0.2	1	0.0	0	0.0	225	2.9	
SSE	0	0.0	27	0.4	99	1.3	70	0.9	14	0.2	2	0.0	0	0.0	212	2.8	
S	0	0.0	24	0.3	53	0.7	16	0.2	3	0.0	0	0.0	0	0.0	96	1.2	
SSW	0	0.0	32	0.4	27	0.4	8	0.1	0	0.0	0	0.0	0	0.0	67	0.9	
SW	0	0.0	42	0.5	40	0.5	4	0.1	0	0.0	0	0.0	0	0.0	86	1.1	
WSW	0	0.0	52	0.7	66	0.9	13	0.2	0	0.0	0	0.0	0	0.0	131	1.7	
W	0	0.0	47	0.6	96	1.2	56	0.7	0	0.0	0	0.0	0	0.0	199	2.6	
WNW	0	0.0	79	1.0	109	1.4	109	1.4	39	0.5	3	0.0	0	0.0	339	4.4	
NW	0	0.0	95	1.2	156	2.0	124	1.6	25	0.3	4	0.1	0	0.0	404	5.2	
NNW	0	0.0	98	1.3	116	1.5	49	0.6	17	0.2	0	0.0	0	0.0	280	3.6	
		0	0.0	721	9.4	1132	14.7	606	7.9	117	1.5	15	0.2	0	0.0	2591	33.6

MEAN WIND SPEED: 6.0
MISSING: 328

Peach Bottom Atomic Power Station
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PEACH BOTTOM

1/00-12/00

JOINT DISTRIBUTION OF WIND DIRECTION AND SPEED
BY ATMOSPHERIC STABILITY CLASS
WIND: RIVER
DELTA T: (316-33FT)

LAPSE RATE: 1.6 TO 4.0 DEG C/100M
CLASS F

WIND SPEED GROUPS (MPH)																
0.0-0.5		0.6-3.5		3.6-7.5		7.6-12.5		12.6-18.5		18.6-24.5		GE 24.6		SUM PERCENT		
DIRECTION	SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT			
	0	0.0	16	0.2	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	17	0.2
N	0	0.0	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
NNE	0	0.0	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
NE	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
ENE	0	0.0	4	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	0.1
E	0	0.0	6	0.1	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	8	0.1
ESE	0	0.0	9	0.1	7	0.1	0	0.0	0	0.0	0	0.0	0	0.0	16	0.2
SE	0	0.0	8	0.1	3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	11	0.1
SSE	0	0.0	11	0.1	3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	14	0.2
S	0	0.0	13	0.2	5	0.1	1	0.0	0	0.0	0	0.0	0	0.0	19	0.2
SSW	0	0.0	33	0.4	16	0.2	0	0.0	0	0.0	0	0.0	0	0.0	49	0.6
SW	0	0.0	39	0.5	26	0.3	1	0.0	0	0.0	0	0.0	0	0.0	66	0.9
WSW	0	0.0	73	0.9	37	0.5	4	0.1	0	0.0	0	0.0	0	0.0	114	1.5
W	0	0.0	67	0.9	47	0.6	4	0.1	0	0.0	0	0.0	0	0.0	118	1.5
WNW	0	0.0	65	0.8	50	0.6	2	0.0	0	0.0	0	0.0	0	0.0	117	1.5
NW	0	0.0	51	0.7	29	0.4	2	0.0	0	0.0	0	0.0	0	0.0	82	1.1
NNW																
	0	0.0	400	5.2	226	2.9	14	0.2	0	0.0	0	0.0	0	0.0	640	8.3

MEAN WIND SPEED: 3.3
MISSING: 100

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PEACH BOTTOM

1/00-12/00

JOINT DISTRIBUTION OF WIND DIRECTION AND SPEED
BY ATMOSPHERIC STABILITY CLASS
WIND: RIVER
DELTA T: (316-33FT)

LAPSE RATE: GT 4.0 DEG C/100M
CLASS G

WIND SPEED GROUPS (MPH)																
0.0-0.5		0.6-3.5		3.6-7.5		7.6-12.5		12.6-18.5		18.6-24.5		GE 24.6		SUM PERCENT		
DIRECTION	SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT			
	0	0.0	5	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5	0.1
N	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
NNE	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
NE	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
ENE	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.0
E	0	0.0	2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
ESE	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
SE	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
SSE	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.0
S	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.0
SSW	0	0.0	3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	12	0.2
SW	0	0.0	11	0.1	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	40	0.5
WSW	0	0.0	23	0.3	17	0.2	0	0.0	0	0.0	0	0.0	0	0.0	75	1.0
W	0	0.0	46	0.6	29	0.4	0	0.0	0	0.0	0	0.0	0	0.0	55	0.7
WNW	0	0.0	37	0.5	18	0.2	0	0.0	0	0.0	0	0.0	0	0.0	38	0.5
NW	0	0.0	22	0.3	16	0.2	0	0.0	0	0.0	0	0.0	0	0.0	13	0.2
NNW	0	0.0	7	0.1	6	0.1	0	0.0	0	0.0	0	0.0	0	0.0		
	0	0.0	160	2.1	87	1.1	0	0.0	0	0.0	0	0.0	0	0.0	247	3.2

MEAN WIND SPEED: 3.1
MISSING: 54

PEACH BOTTOM

1/00-12/00

JOINT DISTRIBUTION OF WIND DIRECTION AND SPEED
BY ATMOSPHERIC STABILITY CLASS
WIND: RIVER
DELTA T: (316-33FT)

ALL STABILITY CLASSES

WIND SPEED GROUPS (MPH)																
	0.0-0.5		0.6-3.5		3.6-7.5		7.6-12.5		12.6-18.5		18.6-24.5		GE 24.6		SUM PERCENT	
DIRECTION	SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT			
															</	

MEAN WIND SPEED: 8.2

PEACH BOTTOM 1/00-12/00 JOINT DISTRIBUTION OF WIND DIRECTION AND SPEED
BY ATMOSPHERIC STABILITY CLASS
WIND: RIVER
DELTA T: (316-33FT)

DIRECTION VS SPEED ONLY

WIND SPEED GROUPS (MPH)																
	0.0-0.5		0.6-3.5		3.6-7.5		7.6-12.5		12.6-18.5		18.6-24.5		GE 24.6		SUM PERCENT	
DIRECTION	SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT		SUM PERCENT			
N	0	0.0	105	1.3	119	1.5	137	1.7	48	0.6	3	0.0	0	0.0	412	5.2
NNE	0	0.0	56	0.7	76	1.0	49	0.6	2	0.0	1	0.0	0	0.0	184	2.3
NE	0	0.0	59	0.7	66	0.8	32	0.4	6	0.1	0	0.0	0	0.0	163	2.1
ENE	0	0.0	67	0.9	92	1.2	28	0.4	1	0.0	0	0.0	0	0.0	188	2.4
E	0	0.0	75	1.0	148	1.9	82	1.0	9	0.1	1	0.0	0	0.0	315	4.0
ESE	0	0.0	85	1.1	206	2.6	182	2.3	14	0.2	3	0.0	0	0.0	490	6.2
SE	0	0.0	91	1.2	266	3.4	233	3.0	52	0.7	2	0.0	0	0.0	644	8.2
SSE	0	0.0	55	0.7	185	2.4	233	3.0	98	1.2	13	0.2	3	0.0	587	7.5
S	0	0.0	59	0.7	89	1.1	67	0.9	18	0.2	3	0.0	0	0.0	236	3.0
SSW	0	0.0	60	0.8	59	0.7	35	0.4	7	0.1	0	0.0	0	0.0	161	2.0
SW	0	0.0	99	1.3	81	1.0	67	0.9	3	0.0	0	0.0	0	0.0	250	3.2
WSW	0	0.0	129	1.6	136	1.7	60	0.8	6	0.1	0	0.0	0	0.0	331	4.2
W	0	0.0	181	2.3	206	2.6	145	1.8	47	0.6	7	0.1	4	0.1	590	7.5
WNW	0	0.0	206	2.6	218	2.8	267	3.4	271	3.4	86	1.1	21	0.3	1069	13.6
NW	0	0.0	225	2.9	320	4.1	346	4.4	214	2.7	172	2.2	51	0.6	1328	16.9
NNW	0	0.0	202	2.6	251	3.2	180	2.3	158	2.0	92	1.2	37	0.5	920	11.7

MEAN WIND SPEED: 8.2

IX. CONCLUSIONS

Using the conservative methodologies (i.e. bounding analysis with the highest X/Q receptor locations and all pathways available have shown that doses calculated were extremely low and well within ODCM, 10CFR50 Appendix I design objective dose and 40CFR190 limits.

X. CORRECTIONS TO PREVIOUS REPORT

An error in the summing of the doses from gaseous releases was found that increased slightly the dose reported in Tables I-1 and Tables VII-2 through VII-4 of Report No. 15. The specific changes were as follows:

Dose Pathway	Previous Dose	Revised Dose
Dose to total body of an individual	1.03 E-01 mrem	1.19 E-01 mrem
Dose to skin of an individual	1.80 E-01 mrem	1.96 E-01 mrem
Dose to any organ (thyroid) from all pathways	4.06 E-01 mrem	4.62 E-01 mrem

The increase in dose was not significant. The revised tables follow.

TABLE I-1

COMPARISON OF 1999 DOSES RESULTING FROM PBAPS
UNITS 2 AND 3 WITH ODCM REQUIREMENTS

CATEGORY	DOSE PATHWAY	MAXIMUM DOSE FROM PBAPS	% of A	ODCM REQUIREMENTS A
I.	Liquid Effluents			
a.	Dose to total body from all pathways	4.19 E-03	0.07	3 mrem/yr/unit
b.	Dose to any organ from all pathways	4.30 E-03	0.02	10 mrem/yr/unit
II.	Gaseous Effluents *			
a.	Gamma air dose	1.17 E-01	0.59	10 mrad/yr/unit
b.	Beta air dose	7.17 E-02	0.18	20 mrad/yr/unit
c.	Dose to total body of an individual	1.19 E-01	1.19	5 mrem/yr/unit
d.	Dose to skin of an individual	1.96 E-01	0.65	15 mrem/yr/unit
e.	Dose to any organ (thyroid) from all pathways	4.62 E-01	1.54	15 mrem/yr/unit

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

TABLE VII-2
ANNUAL DOSES TO ALL ORGANS BY PATHWAY AT LOCATION OF
HIGHEST CALCULATED TOTAL BODY DOSE FROM STACK AND VENT RELEASES, 1999

LOCATION SW 13800 FEET

ANNUAL BETA AIR DOSE = 1.51E-02 MILLIRADS
ANNUAL GAMMA AIR DOSE = 2.54E-02 MILLIRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.71E-02	1.71E-02	1.71E-02	1.71E-02	1.71E-02	1.71E-02	1.73E-02	3.35E-02
GROUND	8.04E-05	8.04E-05	8.04E-05	8.04E-05	8.04E-05	8.04E-05	8.04E-05	9.46E-05
VEGET								
ADULT	2.03E-03	2.05E-03	8.12E-05	2.03E-03	2.03E-03	2.68E-03	2.03E-03	2.03E-03
TEEN	2.43E-03	2.45E-03	1.29E-04	2.43E-03	2.43E-03	3.00E-03	2.42E-03	2.42E-03
CHILD	3.82E-03	3.82E-03	3.05E-04	3.81E-03	3.81E-03	4.72E-03	3.80E-03	3.80E-03
MEAT								
ADULT	3.22E-04	3.26E-04	2.79E-06	3.22E-04	3.22E-04	5.11E-04	3.21E-04	3.21E-04
TEEN	1.92E-04	1.94E-04	2.32E-06	1.92E-04	1.93E-04	3.29E-04	1.92E-04	1.92E-04
CHILD	2.33E-04	2.33E-04	4.30E-06	2.33E-04	2.33E-04	4.39E-04	2.32E-04	2.32E-04
COW MILK								
ADULT	7.64E-04	7.62E-04	1.93E-05	7.71E-04	7.81E-04	5.10E-03	7.55E-04	7.55E-04
TEEN	9.98E-04	9.94E-04	3.50E-05	1.01E-03	1.03E-03	7.90E-03	9.83E-04	9.83E-04
CHILD	1.58E-03	1.56E-03	8.51E-05	1.60E-03	1.63E-03	1.55E-02	1.55E-03	1.55E-03
INFANT	2.41E-03	2.37E-03	1.68E-04	2.48E-03	2.49E-03	3.62E-02	2.36E-03	2.36E-03
GOATMILK								
ADULT	1.56E-03	1.55E-03	4.15E-05	1.57E-03	1.58E-03	8.49E-03	1.54E-03	1.54E-03
TEEN	2.03E-03	2.02E-03	7.55E-05	2.06E-03	2.08E-03	1.31E-02	2.01E-03	2.01E-03
CHILD	3.21E-03	3.18E-03	1.84E-04	3.26E-03	3.29E-03	2.55E-02	3.17E-03	3.17E-03
INFANT	4.89E-03	4.82E-03	3.56E-04	5.02E-03	5.03E-03	5.90E-02	4.81E-03	4.81E-03
INHAL								
ADULT	1.24E-03	1.24E-03	1.78E-06	1.24E-03	1.24E-03	1.63E-03	1.24E-03	1.24E-03
TEEN	1.25E-03	1.25E-03	2.46E-06	1.25E-03	1.25E-03	1.76E-03	1.25E-03	1.25E-03
CHILD	1.10E-03	1.10E-03	3.29E-06	1.11E-03	1.11E-03	1.75E-03	1.11E-03	1.10E-03
INFANT	6.35E-04	6.34E-04	2.49E-06	6.37E-04	6.37E-04	1.23E-03	6.37E-04	6.34E-04
TOTAL								
ADULT	2.31E-02	2.31E-02	1.73E-02	2.31E-02	2.31E-02	3.56E-02	2.33E-02	3.94E-02
TEEN	2.41E-02	2.41E-02	1.74E-02	2.41E-02	2.42E-02	4.33E-02	2.42E-02	4.04E-02
CHILD	2.71E-02	2.71E-02	1.78E-02	2.72E-02	2.73E-02	6.51E-02	2.72E-02	4.34E-02
INFANT	2.51E-02	2.50E-02	1.77E-02	2.53E-02	2.53E-02	1.14E-01	2.52E-02	4.14E-02

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**TABLE VII-3
ANNUAL DOSES TO ALL ORGANS BY PATHWAY AT LOCATION OF
HIGHEST CALCULATED TOTAL BODY DOSE FROM STACK AND VENT RELEASES, 1999**

LOCATION E 1300 FEET

ANNUAL BETA AIR DOSE = 7.17E-02 MILLIRADS
ANNUAL GAMMA AIR DOSE = 1.17E-01 MILLIRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	7.89E-02	7.89E-02	7.89E-02	7.89E-02	7.89E-02	7.89E-02	7.96E-02	1.56E-01
GROUND	3.65E-04	3.65E-04	3.65E-04	3.65E-04	3.65E-04	3.65E-04	3.65E-04	4.29E-04
VEGET								
ADULT	8.07E-03	8.13E-03	1.82E-04	8.07E-03	8.07E-03	1.07E-02	8.05E-03	8.05E-03
TEEN	9.64E-03	9.70E-03	2.95E-04	9.64E-03	9.63E-03	1.19E-02	9.62E-03	9.61E-03
CHILD	1.51E-02	1.52E-02	7.16E-04	1.51E-02	1.51E-02	1.88E-02	1.51E-02	1.51E-02
MEAT								
ADULT	1.28E-03	1.29E-03	7.27E-06	1.28E-03	1.28E-03	2.02E-03	1.28E-03	1.28E-03
TEEN	7.64E-04	7.71E-04	6.11E-06	7.64E-04	7.64E-04	1.30E-03	7.61E-04	7.61E-04
CHILD	9.24E-04	9.24E-04	1.15E-05	9.24E-04	9.24E-04	1.73E-03	9.19E-04	9.19E-04
COW MILK								
ADULT	3.03E-03	3.03E-03	6.34E-05	3.06E-03	3.10E-03	2.02E-02	3.00E-03	3.00E-03
TEEN	3.96E-03	3.94E-03	1.16E-04	4.02E-03	4.09E-03	3.13E-02	3.90E-03	3.90E-03
CHILD	6.27E-03	6.20E-03	2.82E-04	6.37E-03	6.48E-03	6.15E-02	6.17E-03	6.17E-03
INFANT	9.55E-03	9.39E-03	5.64E-04	9.84E-03	9.89E-03	1.44E-01	9.36E-03	9.36E-03
GOATMILK								
ADULT	6.18E-03	6.16E-03	1.30E-04	6.23E-03	6.28E-03	3.37E-02	6.11E-03	6.11E-03
TEEN	8.06E-03	8.03E-03	2.38E-04	8.17E-03	8.27E-03	5.18E-02	7.97E-03	7.96E-03
CHILD	1.28E-02	1.26E-02	5.82E-04	1.29E-02	1.31E-02	1.01E-01	1.26E-02	1.26E-02
INFANT	1.94E-02	1.91E-02	1.14E-03	1.99E-02	2.00E-02	2.34E-01	1.91E-02	1.91E-02
INHAL								
ADULT	4.92E-03	4.92E-03	6.11E-06	4.93E-03	4.93E-03	6.45E-03	4.93E-03	4.92E-03
TEEN	4.95E-03	4.96E-03	8.61E-06	4.96E-03	4.97E-03	6.98E-03	4.97E-03	4.95E-03
CHILD	4.38E-03	4.38E-03	1.17E-05	4.39E-03	4.40E-03	6.96E-03	4.39E-03	4.38E-03
INFANT	2.52E-03	2.52E-03	9.18E-06	2.53E-03	2.53E-03	4.90E-03	2.53E-03	2.52E-03
TOTAL								
ADULT	1.03E-01	1.03E-01	7.97E-02	1.03E-01	1.03E-01	1.52E-01	1.03E-01	1.80E-01
TEEN	1.07E-01	1.07E-01	7.99E-02	1.07E-01	1.07E-01	1.83E-01	1.07E-01	1.84E-01
CHILD	1.19E-01	1.19E-01	8.09E-02	1.19E-01	1.19E-01	2.69E-01	1.19E-01	1.96E-01
INFANT	1.11E-01	1.10E-01	8.10E-02	1.12E-01	1.12E-01	4.62E-01	1.11E-01	1.87E-01

TABLE VII-4
ANNUAL WHOLE BODY AND ORGAN DOSES AT LOCATION BOAT RAMP
DUE TO NON-OCCUPATIONAL ACTIVITIES INSIDE THE SITE BOUNDARY, 1999

ANNUAL BETA AIR DOSE = 2.29E-02 MILLIRADS
ANNUAL GAMMA AIR DOSE = 3.73E-02 MILLIRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.52E-02	2.52E-02	2.52E-02	2.52E-02	2.52E-02	2.52E-02	2.54E-02	4.98E-02
GROUND	1.18E-04	1.18E-04	1.18E-04	1.18E-04	1.18E-04	1.18E-04	1.18E-04	1.39E-04
VEGET								
ADULT								
TEEN								
CHILD								
MEAT								
ADULT								
TEEN								
CHILD								
COW MILK								
ADULT								
TEEN								
CHILD								
INFANT								
GOATMILK								
ADULT								
TEEN								
CHILD								
INFANT								
INHAL								
ADULT	1.59E-03	1.59E-03	2.00E-06	1.59E-03	1.60E-03	2.09E-03	1.59E-03	1.59E-03
TEEN	1.60E-03	1.60E-03	2.81E-06	1.60E-03	1.61E-03	2.26E-03	1.61E-03	1.60E-03
CHILD	1.42E-03	1.42E-03	3.83E-06	1.42E-03	1.42E-03	2.25E-03	1.42E-03	1.42E-03
INFANT	8.15E-04	8.14E-04	2.99E-06	8.18E-04	8.18E-04	1.58E-03	8.18E-04	8.14E-04
TOTAL								
ADULT	2.69E-02	2.69E-02	2.53E-02	2.69E-02	2.69E-02	2.74E-02	2.71E-02	5.16E-02
TEEN	2.69E-02	2.69E-02	2.53E-02	2.69E-02	2.69E-02	2.76E-02	2.71E-02	5.16E-02
CHILD	2.67E-02	2.67E-02	2.53E-02	2.67E-02	2.67E-02	2.76E-02	2.69E-02	5.14E-02
INFANT	2.61E-02	2.61E-02	2.53E-02	2.61E-02	2.61E-02	2.69E-02	2.63E-02	5.08E-02

REFERENCES

1. Philadelphia Electric Company, "Peach Bottom Atomic Power Station Units 2 and 3, Radiation Dose Assessment Report No. 5", January 1, 1989 through December 31, 1989.
2. PECO Energy Company, "Peach Bottom Atomic Power Station Units 2 and 3, Updated Final Safety Analysis Report."
3. PECO Energy Company, "Peach Bottom Atomic Power Station Units 2 and 3, Effluent Releases Report No. 43", January 1, 2000 through December 31, 2000.
4. Philadelphia Electric Company, "Peach Bottom Atomic Power Station Units 2 and 3, Radioactive Effluent Dose Assessment", September 30, 1976.
5. U. S. Nuclear Regulatory Commission, Regulatory Guide 1.109, "Calculation of Annual Doses to Man from Routine Releases of Reactor Effluent for the Purpose of Evaluating Compliance with 10 CFR Part 50, Appendix I", Revision 1, October, 1977.
6. PECO Energy Company, "Peach Bottom Atomic Power Station Units 2 and 3, Radiation Dose Assessment Report No. 14", January 1, 1998 through December 31, 1998.