USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE S SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 152.4 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	3.7	0.23	823.	31.	121.	157.1	310.1	0.0	0.000E+00	0.000E+00	1.614E-06
A	9.2	0.08	823.	31.	121.	157.1	310.1	0.0	0.000E+00	0.000E+00	6.545E-07
A	12.0	0.08	823.	31.	121.	157.1	310.1	0.0	0.000E+00	0.000E+00	5.045E-07
B	3.7	0.49	823.	31.	121.	118.1	88.8	0.0	0.000E+00	0.000E+00	3.178E-06
B	6.2	0.15	823.	31.	121.	118.1	88.8	0.0	0.000E+00	0.000E+00	1.907E-06
B	9.2	0.38	823.	31.	121.	118.1	88.8	0.0	0.000E+00	0.000E+00	1.289E-06
B	12.0	0.04	823.	31.	121.	118.1	88.8	0.0	0.000E+00	0.000E+00	9.932E-07
C	3.7	1.16	2000.	35.	117.	200.0	114.9	0.0	0.000E+00	0.000E+00	2.199E-06
C	6.2	1.58	2000.	35.	117.	200.0	114.9	0.0	0.000E+00	0.000E+00	1.319E-06
C	9.2	0.68	2000.	35.	117.	200.0	114.9	0.0	0.000E+00	0.000E+00	8.915E-07
C	12.0	0.15	2000.	35.	117.	200.0	114.9	0.0	0.000E+00	0.000E+00	6.872E-07
C	27.5	0.04	2000.	35.	117.	200.0	114.9	0.0	0.000E+00	0.000E+00	2.999E-07
D	0.2	0.01	4000.	43.	110.	263.4	78.0	0.0	0.000E+00	0.000E+00	2.309E-05
D	1.7	2.22	4000.	43.	110.	263.4	78.0	0.0	0.000E+00	0.000E+00	3.298E-06
D	3.7	12.39	4000.	43.	110.	263.4	78.0	0.0	0.000E+00	0.000E+00	1.539E-06
D	6.2	19.57	4000.	43.	110.	263.4	78.0	0.0	0.000E+00	0.000E+00	9.234E-07
D	9.2	14.87	4000.	43.	110.	263.4	78.0	0.0	0.000E+00	0.000E+00	6.239E-07
D	12.0	2.74	4000.	43.	110.	263.4	78.0	0.0	0.000E+00	0.000E+00	4.810E-07
D	27.5	0.56	4000.	43.	110.	263.4	78.0	0.0	0.000E+00	0.000E+00	2.099E-07
E	0.3	0.02	7000.	54.	99.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.831E-05
E	2.0	2.25	7000.	54.	99.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.615E-06
E	4.2	8.83	7000.	54.	99.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.220E-06
E	7.0	13.78	7000.	54.	99.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.323E-07
E	10.3	5.86	7000.	54.	99.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.948E-07
E	13.4	0.86	7000.	54.	99.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.814E-07
E	30.7	0.26	7000.	54.	99.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.664E-07
F	0.3	0.01	10000.	55.	97.	295.8	46.1	0.0	0.000E+00	0.000E+00	8.984E-06
F	2.0	0.98	10000.	55.	97.	295.8	46.1	0.0	0.000E+00	0.000E+00	1.283E-06
F	4.2	3.72	10000.	55.	97.	295.8	46.1	0.0	0.000E+00	0.000E+00	5.990E-07
F	7.0	3.04	10000.	55.	97.	295.8	46.1	0.0	0.000E+00	0.000E+00	3.594E-07
F	10.3	0.15	10000.	55.	97.	295.8	46.1	0.0	0.000E+00	0.000E+00	2.428E-07
F	13.4	0.04	10000.	55.	97.	295.8	46.1	0.0	0.000E+00	0.000E+00	1.872E-07
G	2.0	0.41	90000.	55.	97.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.762E-07

G	4.2	1.77	90000.	55.	97.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.755E-07
G	7.0	0.60	90000.	55.	97.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.053E-07
G	10.3	0.04	90000.	55.	97.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.117E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

S SECTOR BOUNDARY DISTANCE = 823.0 METERS
BUILDING WAKE CREDIT IS NOT INCLUDED.
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

2.309E-05	1.831E-05	8.984E-06	3.298E-06	3.178E-06	2.615E-06	2.199E-06	1.907E-06	1.614E-06	1.539E-06
0.005	0.021	0.032	2.248	2.736	4.989	6.154	6.304	6.529	18.922
0.00031	0.00131	0.00201	0.13963	0.16995	0.30990	0.38221	0.39154	0.40553	1.17527
1.319E-06	1.289E-06	1.283E-06	1.220E-06	9.932E-07	9.234E-07	8.915E-07	7.323E-07	6.872E-07	6.545E-07
20.499	20.875	21.851	30.676	30.714	50.279	50.955	64.737	64.887	64.962
1.27323	1.29656	1.35720	1.90535	1.90768	3.12293	3.16491	4.02095	4.03028	4.03494
6.239E-07	5.990E-07	5.045E-07	4.948E-07	4.810E-07	3.814E-07	3.762E-07	3.594E-07	2.999E-07	2.428E-07
79.834	83.551	83.627	89.485	92.226	93.090	93.503	96.545	96.583	96.733
4.95862	5.18954	5.19421	5.55808	5.72835	5.78200	5.80766	5.99659	5.99893	6.00826
2.099E-07	1.872E-07	1.755E-07	1.664E-07	1.053E-07	7.117E-08				
97.296	97.334	99.099	99.362	99.962	100.000				
6.04324	6.04558	6.15521	6.17153	6.20885	6.21119				

BELOW IS PRINTED THE MAXIMUM VALUE OF CHI/Q AND THE DISTANCE IN METERS FROM THE STACK AT WHICH THE VALUE OCCURRED.
THIS DISTANCE MAY BE WITHIN THE SITE BOUNDARY.

CHI/Q = 2.309E-05 DISTANCE = 4000.000

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 1.174
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 1.903

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HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 5)=   3.120
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 6)=   4.955
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 7)=   5.186

  K  I   XQSAVE(K,I)  XQINT(K,I) XQSLOP(K,I)
  1  1     -10.67628 -14.01285  -0.73836
  1  2     -10.90824 -16.27717  -1.27688
  1  3     -13.38433 -16.12975  -1.21180
  1  4     -13.61629 -16.36144  -1.32351
  1  5     -13.89516 -17.30567  -1.83022
  1  6     -14.28720 -17.33310  -1.84686
  1  7     -14.32809     NUMXQ(K)=  7
    5.268E-06              0.062              1.000
    3.463E-06              0.186              3.000
    2.809E-06              0.311              5.000
    2.077E-06              0.621             10.000
    1.721E-06              0.932             15.000
    1.500E-06              1.242             20.000
    1.349E-06              1.553             25.000
    1.234E-06              1.863             30.000
    1.135E-06              2.174             35.000
    1.054E-06              2.484             40.000
    9.850E-07              2.795             45.000
    9.265E-07              3.106             50.000
    8.580E-07              3.416             55.000
    7.981E-07              3.727             60.000
    7.459E-07              4.037             65.000
    7.000E-07              4.348             70.000
    6.592E-07              4.658             75.000
    6.228E-07              4.969             80.000

    2.288E-06              0.5                8.05

ANNUAL AVERAGE =    3.76E-09

K=  1     FIVEXQ(K)= 2.288E-06     FIVEPR(K)= 8.050

FUMIGATION X/Q AT THE BOUNDARY:    5.30E-05

 EXPONENTIAL TERM AND FREQUENCIES

   9.262E-01   5.952E-01   3.926E-01   3.724E-01   3.302E-01   1.076E-01   1.064E-01
       0.376       3.981       5.032      57.387      89.248      97.183     100.000
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE SSW SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 152.4 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	3.7	0.60	823.	18.	134.	157.1	310.1	0.0	0.000E+00	0.000E+00	1.587E-06
A	6.2	0.60	823.	18.	134.	157.1	310.1	0.0	0.000E+00	0.000E+00	9.520E-07
A	9.2	0.26	823.	18.	134.	157.1	310.1	0.0	0.000E+00	0.000E+00	6.433E-07
A	12.0	0.13	823.	18.	134.	157.1	310.1	0.0	0.000E+00	0.000E+00	4.959E-07
B	1.7	0.13	900.	19.	134.	128.1	98.0	0.0	0.000E+00	0.000E+00	5.702E-06
B	3.7	1.52	900.	19.	134.	128.1	98.0	0.0	0.000E+00	0.000E+00	2.661E-06
B	6.2	0.99	900.	19.	134.	128.1	98.0	0.0	0.000E+00	0.000E+00	1.597E-06
B	9.2	0.20	900.	19.	134.	128.1	98.0	0.0	0.000E+00	0.000E+00	1.079E-06
B	12.0	0.13	900.	19.	134.	128.1	98.0	0.0	0.000E+00	0.000E+00	8.316E-07
C	1.7	0.33	2000.	26.	127.	200.0	114.9	0.0	0.000E+00	0.000E+00	4.315E-06
C	3.7	1.46	2000.	26.	127.	200.0	114.9	0.0	0.000E+00	0.000E+00	2.014E-06
C	6.2	1.26	2000.	26.	127.	200.0	114.9	0.0	0.000E+00	0.000E+00	1.208E-06
C	9.2	0.53	2000.	26.	127.	200.0	114.9	0.0	0.000E+00	0.000E+00	8.163E-07
C	12.0	0.07	2000.	26.	127.	200.0	114.9	0.0	0.000E+00	0.000E+00	6.292E-07
C	27.5	0.26	2000.	26.	127.	200.0	114.9	0.0	0.000E+00	0.000E+00	2.746E-07
D	0.2	0.01	5000.	46.	107.	322.2	89.1	0.0	0.000E+00	0.000E+00	2.167E-05
D	1.7	3.84	5000.	46.	107.	322.2	89.1	0.0	0.000E+00	0.000E+00	3.095E-06
D	3.7	13.96	5000.	46.	107.	322.2	89.1	0.0	0.000E+00	0.000E+00	1.444E-06
D	6.2	23.09	5000.	46.	107.	322.2	89.1	0.0	0.000E+00	0.000E+00	8.667E-07
D	9.2	10.19	5000.	46.	107.	322.2	89.1	0.0	0.000E+00	0.000E+00	5.856E-07
D	12.0	1.79	5000.	46.	107.	322.2	89.1	0.0	0.000E+00	0.000E+00	4.514E-07
D	27.5	0.46	5000.	46.	107.	322.2	89.1	0.0	0.000E+00	0.000E+00	1.970E-07
E	0.3	0.02	7000.	59.	93.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.048E-05
E	2.0	2.91	7000.	59.	93.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.926E-06
E	4.2	10.85	7000.	59.	93.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.365E-06
E	7.0	13.30	7000.	59.	93.	310.5	66.2	0.0	0.000E+00	0.000E+00	8.192E-07
E	10.3	2.51	7000.	59.	93.	310.5	66.2	0.0	0.000E+00	0.000E+00	5.535E-07
E	13.4	0.53	7000.	59.	93.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.267E-07
E	30.7	0.07	7000.	59.	93.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.862E-07
F	0.3	0.01	10000.	61.	91.	295.8	46.1	0.0	0.000E+00	0.000E+00	1.172E-05
F	2.0	1.26	10000.	61.	91.	295.8	46.1	0.0	0.000E+00	0.000E+00	1.675E-06
F	4.2	2.51	10000.	61.	91.	295.8	46.1	0.0	0.000E+00	0.000E+00	7.816E-07
F	7.0	1.65	10000.	61.	91.	295.8	46.1	0.0	0.000E+00	0.000E+00	4.690E-07
F	10.3	0.07	10000.	61.	91.	295.8	46.1	0.0	0.000E+00	0.000E+00	3.169E-07

G	2.0	0.93	90000.	61.	91.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.916E-07
G	4.2	1.26	90000.	61.	91.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.294E-07
G	7.0	0.33	90000.	61.	91.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.376E-07

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

SSW SECTOR BOUNDARY DISTANCE = 823.0 METERS
BUILDING WAKE CREDIT IS NOT INCLUDED.
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

2.167E-05	2.048E-05	1.172E-05	5.702E-06	4.315E-06	3.095E-06	2.926E-06	2.661E-06	2.014E-06	1.675E-06
0.009	0.029	0.044	0.176	0.507	4.344	7.254	8.776	10.231	11.488
0.00031	0.00104	0.00155	0.00621	0.01788	0.15316	0.25579	0.30944	0.36076	0.40507
1.597E-06	1.587E-06	1.444E-06	1.365E-06	1.208E-06	1.079E-06	9.520E-07	8.667E-07	8.316E-07	8.192E-07
12.481	13.076	27.034	37.883	39.140	39.338	39.934	63.021	63.153	76.450
0.44006	0.46105	0.95322	1.33575	1.38007	1.38707	1.40806	2.22211	2.22678	2.69561
8.163E-07	7.816E-07	6.433E-07	6.292E-07	5.856E-07	5.535E-07	4.959E-07	4.916E-07	4.690E-07	4.514E-07
76.979	79.493	79.757	79.824	90.011	92.525	92.657	93.583	95.237	97.023
2.71427	2.80291	2.81224	2.81457	3.17378	3.26242	3.26708	3.29974	3.35805	3.42103
4.267E-07	3.169E-07	2.746E-07	2.294E-07	1.970E-07	1.862E-07	1.376E-07			
97.552	97.619	97.883	99.140	99.603	99.669	100.000			
3.43969	3.44202	3.45135	3.49567	3.51200	3.51433	3.52599			

BELOW IS PRINTED THE MAXIMUM VALUE OF CHI/Q AND THE DISTANCE IN METERS FROM THE STACK AT WHICH THE VALUE OCCURRED.
THIS DISTANCE MAY BE WITHIN THE SITE BOUNDARY.

CHI/Q = 2.167E-05 DISTANCE = 5000.000

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 0.256
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 1.334

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HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 5)=   2.712
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 6)=   2.800

  K  I   XQSAVE(K,I)  XQINT(K,I) XQSLOP(K,I)
  2  1     -10.73975 -11.69888  -0.21208
  2  2     -10.79607 -16.48165  -1.33559
  2  3     -12.74198 -16.39665  -1.30524
  2  4     -13.50412 -17.41958  -1.76683
  2  5     -14.01848 -20.00057  -3.10761
  2  6     -14.06189     NUMXQ(K)=  6
    6.414E-06              0.035              1.000
    4.217E-06              0.106              3.000
    3.425E-06              0.176              5.000
    2.550E-06              0.353             10.000
    2.130E-06              0.529             15.000
    1.865E-06              0.705             20.000
    1.677E-06              0.881             25.000
    1.535E-06              1.058             30.000
    1.421E-06              1.234             35.000
    1.315E-06              1.410             40.000
    1.211E-06              1.587             45.000
    1.124E-06              1.763             50.000
    1.049E-06              1.939             55.000
    9.843E-07              2.116             60.000
    9.276E-07              2.292             65.000
    8.775E-07              2.468             70.000
    8.327E-07              2.644             75.000

    2.185E-06              0.5               14.18

ANNUAL AVERAGE =   4.50E-09

K=  2     FIVEXQ(K)= 2.185E-06     FIVEPR(K)=14.180

FUMIGATION X/Q AT THE BOUNDARY:   4.79E-05

 EXPONENTIAL TERM AND FREQUENCIES

   9.104E-01   5.450E-01   4.884E-01   3.935E-01   3.694E-01   1.404E-01   1.390E-01
       1.588       5.491      58.818      61.795      91.981      97.486     100.000
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE SW SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 152.4 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	3.7	1.73	823.	12.	140.	157.1	310.1	0.0	0.000E+00	0.000E+00	1.573E-06
A	6.2	1.50	823.	12.	140.	157.1	310.1	0.0	0.000E+00	0.000E+00	9.439E-07
A	9.2	0.68	823.	12.	140.	157.1	310.1	0.0	0.000E+00	0.000E+00	6.378E-07
B	1.7	0.15	1000.	15.	137.	140.9	110.2	0.0	0.000E+00	0.000E+00	5.399E-06
B	3.7	1.35	1000.	15.	137.	140.9	110.2	0.0	0.000E+00	0.000E+00	2.519E-06
B	6.2	0.98	1000.	15.	137.	140.9	110.2	0.0	0.000E+00	0.000E+00	1.512E-06
B	9.2	0.15	1000.	15.	137.	140.9	110.2	0.0	0.000E+00	0.000E+00	1.021E-06
B	12.0	0.08	1000.	15.	137.	140.9	110.2	0.0	0.000E+00	0.000E+00	7.873E-07
C	1.7	0.90	2000.	33.	119.	200.0	114.9	0.0	0.000E+00	0.000E+00	4.617E-06
C	3.7	2.10	2000.	33.	119.	200.0	114.9	0.0	0.000E+00	0.000E+00	2.155E-06
C	6.2	0.68	2000.	33.	119.	200.0	114.9	0.0	0.000E+00	0.000E+00	1.293E-06
C	9.2	0.30	2000.	33.	119.	200.0	114.9	0.0	0.000E+00	0.000E+00	8.735E-07
D	0.2	0.02	4000.	69.	84.	263.4	78.0	0.0	0.000E+00	0.000E+00	3.495E-05
D	1.7	8.10	4000.	69.	84.	263.4	78.0	0.0	0.000E+00	0.000E+00	4.993E-06
D	3.7	17.86	4000.	69.	84.	263.4	78.0	0.0	0.000E+00	0.000E+00	2.330E-06
D	6.2	18.83	4000.	69.	84.	263.4	78.0	0.0	0.000E+00	0.000E+00	1.398E-06
D	9.2	6.38	4000.	69.	84.	263.4	78.0	0.0	0.000E+00	0.000E+00	9.446E-07
D	12.0	0.98	4000.	69.	84.	263.4	78.0	0.0	0.000E+00	0.000E+00	7.281E-07
D	27.5	0.90	4000.	69.	84.	263.4	78.0	0.0	0.000E+00	0.000E+00	3.177E-07
E	0.3	0.02	6000.	105.	48.	270.1	61.6	0.0	0.000E+00	0.000E+00	5.074E-05
E	2.0	2.70	6000.	105.	48.	270.1	61.6	0.0	0.000E+00	0.000E+00	7.248E-06
E	4.2	11.25	6000.	105.	48.	270.1	61.6	0.0	0.000E+00	0.000E+00	3.383E-06
E	7.0	11.71	6000.	105.	48.	270.1	61.6	0.0	0.000E+00	0.000E+00	2.030E-06
E	10.3	1.95	6000.	105.	48.	270.1	61.6	0.0	0.000E+00	0.000E+00	1.371E-06
E	13.4	0.60	6000.	105.	48.	270.1	61.6	0.0	0.000E+00	0.000E+00	1.057E-06
E	30.7	0.08	6000.	105.	48.	270.1	61.6	0.0	0.000E+00	0.000E+00	4.613E-07
F	0.3	0.02	7000.	123.	30.	214.3	40.2	0.0	0.000E+00	0.000E+00	1.005E-04
F	2.0	1.65	7000.	123.	30.	214.3	40.2	0.0	0.000E+00	0.000E+00	1.435E-05
F	4.2	2.55	7000.	123.	30.	214.3	40.2	0.0	0.000E+00	0.000E+00	6.697E-06
F	7.0	0.98	7000.	123.	30.	214.3	40.2	0.0	0.000E+00	0.000E+00	4.018E-06
F	10.3	0.08	7000.	123.	30.	214.3	40.2	0.0	0.000E+00	0.000E+00	2.715E-06
G	2.0	0.83	8000.	128.	24.	166.9	25.6	0.0	0.000E+00	0.000E+00	2.419E-05
G	4.2	1.65	8000.	128.	24.	166.9	25.6	0.0	0.000E+00	0.000E+00	1.129E-05

G	7.0	0.30	8000.	128.	24.	166.9	25.6	0.0	0.000E+00	0.000E+00	6.772E-06

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

SW SECTOR BOUNDARY DISTANCE = 823.0 METERS
BUILDING WAKE CREDIT IS NOT INCLUDED.
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.005E-04	5.074E-05	3.495E-05	2.419E-05	1.435E-05	1.129E-05	7.248E-06	6.772E-06	6.697E-06	5.399E-06
0.019	0.038	0.057	0.882	2.533	4.183	6.885	7.185	9.736	9.886
0.00059	0.00119	0.00176	0.02742	0.07873	0.13005	0.21402	0.22335	0.30265	0.30732
4.993E-06	4.617E-06	4.018E-06	3.383E-06	2.715E-06	2.519E-06	2.330E-06	2.155E-06	2.030E-06	1.573E-06
17.989	18.890	19.865	31.120	31.195	32.546	50.403	52.504	64.209	65.935
0.55923	0.58722	0.61755	0.96742	0.96976	1.01174	1.56688	1.63219	1.99607	2.04972
1.512E-06	1.398E-06	1.371E-06	1.293E-06	1.057E-06	1.021E-06	9.446E-07	9.439E-07	8.735E-07	7.873E-07
66.911	85.744	87.695	88.370	88.970	89.120	95.498	96.999	97.299	97.374
2.08004	2.66550	2.72615	2.74714	2.76580	2.77047	2.96873	3.01538	3.02471	3.02704
7.281E-07	6.378E-07	4.613E-07	3.177E-07						
98.349	99.025	99.100	100.000						
3.05737	3.07836	3.08069	3.10868						

BELOW IS PRINTED THE MAXIMUM VALUE OF CHI/Q AND THE DISTANCE IN METERS FROM THE STACK AT WHICH THE VALUE OCCURRED.
THIS DISTANCE MAY BE WITHIN THE SITE BOUNDARY.

CHI/Q = 1.005E-04 DISTANCE = 7000.000

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 0.027
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 0.130

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HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 4)=   0.559
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 5)=   1.994
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 6)=   2.723

  K  I   XQSAVE(K,I)  XQINT(K,I) XQSLOP(K,I)
  3  1     -9.20578 -15.95525  -1.54089
  3  2    -10.62969 -16.55569  -1.71462
  3  3    -11.39183 -16.57032  -1.71948
  3  4    -12.20750 -16.94342  -1.86653
  3  5    -13.10770 -19.21492  -2.97188
  3  6    -13.49974     NUMXQ(K)=  6
    2.282E-05              0.031              1.000
    1.339E-05              0.093              3.000
    1.028E-05              0.155              5.000
    7.032E-06              0.311             10.000
    5.564E-06              0.466             15.000
    4.657E-06              0.622             20.000
    4.010E-06              0.777             25.000
    3.539E-06              0.933             30.000
    3.176E-06              1.088             35.000
    2.887E-06              1.243             40.000
    2.651E-06              1.399             45.000
    2.452E-06              1.554             50.000
    2.284E-06              1.710             55.000
    2.138E-06              1.865             60.000
    1.999E-06              2.021             65.000
    1.824E-06              2.176             70.000
    1.673E-06              2.332             75.000
    1.542E-06              2.487             80.000
    1.427E-06              2.642             85.000

    5.339E-06              0.5               16.08

ANNUAL AVERAGE =   5.04E-09

K=  3     FIVEXQ(K)= 5.339E-06     FIVEPR(K)=16.084

FUMIGATION X/Q AT THE BOUNDARY:   4.58E-05

 EXPONENTIAL TERM AND FREQUENCIES

   9.026E-01   7.605E-01   7.410E-01   6.339E-01   5.832E-01   5.638E-01   4.608E-01
       3.902       9.173      37.480      40.256      44.232      97.299     100.000
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE WSW SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 152.4 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	3.7	2.58	823.	24.	128.	157.1	310.1	0.0	0.000E+00	0.000E+00	1.600E-06
A	6.2	1.92	823.	24.	128.	157.1	310.1	0.0	0.000E+00	0.000E+00	9.599E-07
A	9.2	1.19	823.	24.	128.	157.1	310.1	0.0	0.000E+00	0.000E+00	6.486E-07
A	12.0	0.07	823.	24.	128.	157.1	310.1	0.0	0.000E+00	0.000E+00	4.999E-07
B	1.7	0.59	900.	25.	127.	128.1	98.0	0.0	0.000E+00	0.000E+00	6.224E-06
B	3.7	1.65	900.	25.	127.	128.1	98.0	0.0	0.000E+00	0.000E+00	2.905E-06
B	6.2	0.99	900.	25.	127.	128.1	98.0	0.0	0.000E+00	0.000E+00	1.743E-06
B	9.2	0.07	900.	25.	127.	128.1	98.0	0.0	0.000E+00	0.000E+00	1.178E-06
C	1.7	0.99	2000.	39.	114.	200.0	114.9	0.0	0.000E+00	0.000E+00	4.845E-06
C	3.7	2.44	2000.	39.	114.	200.0	114.9	0.0	0.000E+00	0.000E+00	2.261E-06
C	6.2	1.12	2000.	39.	114.	200.0	114.9	0.0	0.000E+00	0.000E+00	1.357E-06
C	9.2	0.20	2000.	39.	114.	200.0	114.9	0.0	0.000E+00	0.000E+00	9.166E-07
D	0.2	0.02	4000.	63.	89.	263.4	78.0	0.0	0.000E+00	0.000E+00	3.225E-05
D	1.7	7.86	4000.	63.	89.	263.4	78.0	0.0	0.000E+00	0.000E+00	4.608E-06
D	3.7	22.19	4000.	63.	89.	263.4	78.0	0.0	0.000E+00	0.000E+00	2.150E-06
D	6.2	18.36	4000.	63.	89.	263.4	78.0	0.0	0.000E+00	0.000E+00	1.290E-06
D	9.2	4.43	4000.	63.	89.	263.4	78.0	0.0	0.000E+00	0.000E+00	8.717E-07
D	12.0	0.73	4000.	63.	89.	263.4	78.0	0.0	0.000E+00	0.000E+00	6.720E-07
D	27.5	0.13	4000.	63.	89.	263.4	78.0	0.0	0.000E+00	0.000E+00	2.932E-07
E	0.3	0.03	7000.	100.	52.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.066E-05
E	2.0	4.03	7000.	100.	52.	310.5	66.2	0.0	0.000E+00	0.000E+00	5.809E-06
E	4.2	14.46	7000.	100.	52.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.711E-06
E	7.0	6.67	7000.	100.	52.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.626E-06
E	10.3	0.73	7000.	100.	52.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.099E-06
E	13.4	0.26	7000.	100.	52.	310.5	66.2	0.0	0.000E+00	0.000E+00	8.471E-07
E	30.7	0.07	7000.	100.	52.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.696E-07
F	0.3	0.02	8000.	104.	48.	241.8	42.4	0.0	0.000E+00	0.000E+00	5.792E-05
F	2.0	1.72	8000.	104.	48.	241.8	42.4	0.0	0.000E+00	0.000E+00	8.274E-06
F	4.2	1.92	8000.	104.	48.	241.8	42.4	0.0	0.000E+00	0.000E+00	3.861E-06
F	7.0	0.53	8000.	104.	48.	241.8	42.4	0.0	0.000E+00	0.000E+00	2.317E-06
G	2.0	0.66	8000.	104.	48.	166.9	25.6	0.0	0.000E+00	0.000E+00	6.348E-06
G	4.2	1.25	8000.	104.	48.	166.9	25.6	0.0	0.000E+00	0.000E+00	2.962E-06
G	7.0	0.13	8000.	104.	48.	166.9	25.6	0.0	0.000E+00	0.000E+00	1.777E-06

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

WSW SECTOR BOUNDARY DISTANCE = 823.0 METERS
BUILDING WAKE CREDIT IS NOT INCLUDED.
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

5.792E-05	4.066E-05	3.225E-05	8.274E-06	6.348E-06	6.224E-06	5.809E-06	4.845E-06	4.608E-06	3.861E-06
0.020	0.049	0.066	1.784	2.444	3.039	7.068	8.058	15.918	17.834
0.00070	0.00171	0.00234	0.06299	0.08631	0.10730	0.24959	0.28458	0.56215	0.62979
2.962E-06	2.905E-06	2.711E-06	2.317E-06	2.261E-06	2.150E-06	1.777E-06	1.743E-06	1.626E-06	1.600E-06
19.089	20.740	35.205	35.733	38.177	60.370	60.502	61.493	68.164	70.740
0.67411	0.73242	1.24324	1.26190	1.34821	2.13193	2.13660	2.17159	2.40717	2.49814
1.357E-06	1.290E-06	1.178E-06	1.099E-06	9.599E-07	9.166E-07	8.717E-07	8.471E-07	6.720E-07	6.486E-07
71.863	90.225	90.291	91.017	92.933	93.131	97.556	97.820	98.547	99.736
2.53779	3.18624	3.18857	3.21423	3.28187	3.28887	3.44515	3.45448	3.48013	3.52212
4.999E-07	3.696E-07	2.932E-07							
99.802	99.868	100.000							
3.52445	3.52678	3.53145							

BELOW IS PRINTED THE MAXIMUM VALUE OF CHI/Q AND THE DISTANCE IN METERS FROM THE STACK AT WHICH THE VALUE OCCURRED.
THIS DISTANCE MAY BE WITHIN THE SITE BOUNDARY.

CHI/Q = 5.792E-05 DISTANCE = 8000.000

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED

CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 0.561
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 2.130

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HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 4)=   3.183
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 5)=   3.442

  K  I   XQSAVE(K,I)  XQINT(K,I) XQSLOP(K,I)
  4  1      -9.75651 -15.83710  -1.39986
  4  2     -12.28779 -16.09319  -1.50087
  4  3     -13.04993 -19.03180  -2.95012
  4  4     -13.56075 -34.30257 -11.18449
  4  5     -13.95280     NUMXQ(K)=  5
    1.518E-05              0.035              1.000
    9.783E-06              0.106              3.000
    7.867E-06              0.177              5.000
    5.755E-06              0.353             10.000
    4.743E-06              0.530             15.000
    4.080E-06              0.706             20.000
    3.611E-06              0.883             25.000
    3.261E-06              1.059             30.000
    2.985E-06              1.236             35.000
    2.761E-06              1.413             40.000
    2.574E-06              1.589             45.000
    2.416E-06              1.766             50.000
    2.278E-06              1.942             55.000
    2.159E-06              2.119             60.000
    1.962E-06              2.295             65.000
    1.788E-06              2.472             70.000
    1.639E-06              2.649             75.000
    1.509E-06              2.825             80.000
    1.395E-06              3.002             85.000
    1.294E-06              3.178             90.000

    4.878E-06              0.5               14.16

ANNUAL AVERAGE =   1.02E-08

K=  4     FIVEXQ(K)= 4.878E-06     FIVEPR(K)=14.158

FUMIGATION X/Q AT THE BOUNDARY:   5.01E-05

 EXPONENTIAL TERM AND FREQUENCIES

   9.179E-01   7.335E-01   6.120E-01   5.212E-01   5.203E-01   4.295E-01   1.664E-01
       5.746      31.997      36.753      40.933      94.650      97.952     100.000
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE W SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 152.4 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.7	0.15	823.	31.	121.	157.1	310.1	0.0	0.000E+00	0.000E+00	3.459E-06
A	3.7	4.26	823.	31.	121.	157.1	310.1	0.0	0.000E+00	0.000E+00	1.614E-06
A	6.2	2.25	823.	31.	121.	157.1	310.1	0.0	0.000E+00	0.000E+00	9.686E-07
A	9.2	0.34	823.	31.	121.	157.1	310.1	0.0	0.000E+00	0.000E+00	6.545E-07
B	1.7	0.24	823.	31.	121.	118.1	88.8	0.0	0.000E+00	0.000E+00	6.811E-06
B	3.7	2.74	823.	31.	121.	118.1	88.8	0.0	0.000E+00	0.000E+00	3.178E-06
B	6.2	0.59	823.	31.	121.	118.1	88.8	0.0	0.000E+00	0.000E+00	1.907E-06
B	9.2	0.05	823.	31.	121.	118.1	88.8	0.0	0.000E+00	0.000E+00	1.289E-06
C	1.7	0.05	2000.	39.	114.	200.0	114.9	0.0	0.000E+00	0.000E+00	4.849E-06
C	3.7	2.45	2000.	39.	114.	200.0	114.9	0.0	0.000E+00	0.000E+00	2.263E-06
C	6.2	0.68	2000.	39.	114.	200.0	114.9	0.0	0.000E+00	0.000E+00	1.358E-06
C	9.2	0.15	2000.	39.	114.	200.0	114.9	0.0	0.000E+00	0.000E+00	9.173E-07
C	12.0	0.05	2000.	39.	114.	200.0	114.9	0.0	0.000E+00	0.000E+00	7.071E-07
D	0.2	0.01	4000.	52.	101.	263.4	78.0	0.0	0.000E+00	0.000E+00	2.689E-05
D	1.7	5.63	4000.	52.	101.	263.4	78.0	0.0	0.000E+00	0.000E+00	3.842E-06
D	3.7	21.28	4000.	52.	101.	263.4	78.0	0.0	0.000E+00	0.000E+00	1.793E-06
D	6.2	16.19	4000.	52.	101.	263.4	78.0	0.0	0.000E+00	0.000E+00	1.076E-06
D	9.2	6.46	4000.	52.	101.	263.4	78.0	0.0	0.000E+00	0.000E+00	7.269E-07
D	12.0	1.57	4000.	52.	101.	263.4	78.0	0.0	0.000E+00	0.000E+00	5.603E-07
D	27.5	0.39	4000.	52.	101.	263.4	78.0	0.0	0.000E+00	0.000E+00	2.445E-07
E	0.3	0.02	7000.	71.	81.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.604E-05
E	2.0	2.94	7000.	71.	81.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.720E-06
E	4.2	13.85	7000.	71.	81.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.736E-06
E	7.0	7.88	7000.	71.	81.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.042E-06
E	10.3	2.84	7000.	71.	81.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.039E-07
E	13.4	0.59	7000.	71.	81.	310.5	66.2	0.0	0.000E+00	0.000E+00	5.426E-07
E	30.7	0.98	7000.	71.	81.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.368E-07
F	0.3	0.02	8000.	73.	79.	241.8	42.4	0.0	0.000E+00	0.000E+00	1.924E-05
F	2.0	1.52	8000.	73.	79.	241.8	42.4	0.0	0.000E+00	0.000E+00	2.749E-06
F	4.2	1.66	8000.	73.	79.	241.8	42.4	0.0	0.000E+00	0.000E+00	1.283E-06
F	7.0	0.64	8000.	73.	79.	241.8	42.4	0.0	0.000E+00	0.000E+00	7.696E-07
F	30.7	0.20	8000.	73.	79.	241.8	42.4	0.0	0.000E+00	0.000E+00	1.749E-07
G	2.0	0.64	90000.	73.	79.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.977E-07

G	4.2	0.64	90000.	73.	79.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.723E-07
G	7.0	0.10	90000.	73.	79.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.234E-07

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

W SECTOR BOUNDARY DISTANCE = 823.0 METERS
BUILDING WAKE CREDIT IS NOT INCLUDED.
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

2.689E-05	2.604E-05	1.924E-05	6.811E-06	4.849E-06	3.842E-06	3.720E-06	3.459E-06	3.178E-06	2.749E-06
0.013	0.034	0.051	0.296	0.345	5.971	8.906	9.053	11.793	13.309
0.00061	0.00160	0.00244	0.01410	0.01643	0.28467	0.42462	0.43162	0.56224	0.63455
2.263E-06	1.907E-06	1.793E-06	1.736E-06	1.614E-06	1.358E-06	1.289E-06	1.283E-06	1.076E-06	1.042E-06
15.755	16.342	37.624	51.469	55.725	56.410	56.459	58.122	74.316	82.192
0.75118	0.77917	1.79382	2.45392	2.65685	2.68951	2.69184	2.77114	3.54321	3.91875
9.686E-07	9.173E-07	7.977E-07	7.696E-07	7.269E-07	7.071E-07	7.039E-07	6.545E-07	5.603E-07	5.426E-07
84.443	84.589	85.225	85.861	92.319	92.368	95.206	95.548	97.114	97.701
4.02604	4.03304	4.06336	4.09369	4.40158	4.40391	4.53920	4.55553	4.63017	4.65816
3.723E-07	2.445E-07	2.368E-07	2.234E-07	1.749E-07					
98.337	98.728	99.706	99.804	100.000					
4.68848	4.70714	4.75379	4.75845	4.76779					

BELOW IS PRINTED THE MAXIMUM VALUE OF CHI/Q AND THE DISTANCE IN METERS FROM THE STACK AT WHICH THE VALUE OCCURRED.
THIS DISTANCE MAY BE WITHIN THE SITE BOUNDARY.

CHI/Q = 2.689E-05 DISTANCE = 4000.000

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED

CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 0.424
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 2.451

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HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 5)=   2.654
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 6)=   3.915
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 7)=   4.536

  K  I   XQSAVE(K,I)  XQINT(K,I) XQSLOP(K,I)
  5  1     -10.52359 -11.17195  -0.14818
  5  2     -10.55575 -15.85762  -1.27495
  5  3     -12.50166 -15.52343  -1.14799
  5  4     -13.26380 -17.46210  -2.13292
  5  5     -13.33655 -18.21624  -2.52280
  5  6     -13.77462 -23.78702  -5.68697
  5  7     -14.16666     NUMXQ(K)=  7
    8.762E-06              0.048              1.000
    5.816E-06              0.143              3.000
    4.743E-06              0.238              5.000
    3.555E-06              0.477             10.000
    3.018E-06              0.715             15.000
    2.674E-06              0.954             20.000
    2.427E-06              1.192             25.000
    2.238E-06              1.430             30.000
    2.085E-06              1.669             35.000
    1.960E-06              1.907             40.000
    1.853E-06              2.146             45.000
    1.761E-06              2.384             50.000
    1.634E-06              2.622             55.000
    1.489E-06              2.861             60.000
    1.362E-06              3.099             65.000
    1.253E-06              3.337             70.000
    1.158E-06              3.576             75.000
    1.075E-06              3.814             80.000
    9.534E-07              4.053             85.000
    8.188E-07              4.291             90.000

    3.489E-06              0.5               10.49

ANNUAL AVERAGE =   1.64E-08

K=  5     FIVEXQ(K)= 3.489E-06     FIVEPR(K)=10.487

FUMIGATION X/Q AT THE BOUNDARY:   5.30E-05

 EXPONENTIAL TERM AND FREQUENCIES

   9.262E-01   6.125E-01   4.698E-01   4.339E-01   3.926E-01   2.255E-01   1.732E-01
       6.996      10.372      39.453      90.981      94.601      95.971     100.000
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE WNW SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 152.4 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	3.7	2.40	823.	31.	121.	157.1	310.1	0.0	0.000E+00	0.000E+00	1.614E-06
A	6.2	2.40	823.	31.	121.	157.1	310.1	0.0	0.000E+00	0.000E+00	9.686E-07
A	9.2	0.16	823.	31.	121.	157.1	310.1	0.0	0.000E+00	0.000E+00	6.545E-07
A	12.0	0.05	823.	31.	121.	157.1	310.1	0.0	0.000E+00	0.000E+00	5.045E-07
A	27.5	0.05	823.	31.	121.	157.1	310.1	0.0	0.000E+00	0.000E+00	2.201E-07
B	3.7	1.58	823.	31.	121.	118.1	88.8	0.0	0.000E+00	0.000E+00	3.178E-06
B	6.2	1.36	823.	31.	121.	118.1	88.8	0.0	0.000E+00	0.000E+00	1.907E-06
B	9.2	0.11	823.	31.	121.	118.1	88.8	0.0	0.000E+00	0.000E+00	1.289E-06
B	12.0	0.05	823.	31.	121.	118.1	88.8	0.0	0.000E+00	0.000E+00	9.932E-07
C	3.7	3.54	2000.	43.	109.	200.0	114.9	0.0	0.000E+00	0.000E+00	2.351E-06
C	6.2	1.42	2000.	43.	109.	200.0	114.9	0.0	0.000E+00	0.000E+00	1.411E-06
C	9.2	0.22	2000.	43.	109.	200.0	114.9	0.0	0.000E+00	0.000E+00	9.532E-07
C	12.0	0.11	2000.	43.	109.	200.0	114.9	0.0	0.000E+00	0.000E+00	7.348E-07
D	0.2	0.01	4000.	64.	89.	263.4	78.0	0.0	0.000E+00	0.000E+00	3.255E-05
D	1.7	4.69	4000.	64.	89.	263.4	78.0	0.0	0.000E+00	0.000E+00	4.650E-06
D	3.7	16.58	4000.	64.	89.	263.4	78.0	0.0	0.000E+00	0.000E+00	2.170E-06
D	6.2	16.79	4000.	64.	89.	263.4	78.0	0.0	0.000E+00	0.000E+00	1.302E-06
D	9.2	7.63	4000.	64.	89.	263.4	78.0	0.0	0.000E+00	0.000E+00	8.797E-07
D	12.0	1.42	4000.	64.	89.	263.4	78.0	0.0	0.000E+00	0.000E+00	6.781E-07
D	27.5	0.11	4000.	64.	89.	263.4	78.0	0.0	0.000E+00	0.000E+00	2.959E-07
E	0.3	0.02	7000.	95.	58.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.800E-05
E	2.0	3.27	7000.	95.	58.	310.5	66.2	0.0	0.000E+00	0.000E+00	5.429E-06
E	4.2	10.91	7000.	95.	58.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.534E-06
E	7.0	14.01	7000.	95.	58.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.520E-06
E	10.3	3.44	7000.	95.	58.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.027E-06
E	13.4	1.15	7000.	95.	58.	310.5	66.2	0.0	0.000E+00	0.000E+00	7.918E-07
E	30.7	0.22	7000.	95.	58.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.455E-07
F	0.3	0.01	8000.	98.	54.	241.8	42.4	0.0	0.000E+00	0.000E+00	4.879E-05
F	2.0	1.25	8000.	98.	54.	241.8	42.4	0.0	0.000E+00	0.000E+00	6.969E-06
F	4.2	2.84	8000.	98.	54.	241.8	42.4	0.0	0.000E+00	0.000E+00	3.252E-06
F	7.0	1.31	8000.	98.	54.	241.8	42.4	0.0	0.000E+00	0.000E+00	1.951E-06
F	10.3	0.11	8000.	98.	54.	241.8	42.4	0.0	0.000E+00	0.000E+00	1.319E-06
F	30.7	0.05	8000.	98.	54.	241.8	42.4	0.0	0.000E+00	0.000E+00	4.435E-07

G	2.0	0.27	10000.	98.	54.	204.1	27.4	0.0	0.000E+00	0.000E+00	4.048E-06
G	4.2	0.33	10000.	98.	54.	204.1	27.4	0.0	0.000E+00	0.000E+00	1.889E-06
G	7.0	0.11	10000.	98.	54.	204.1	27.4	0.0	0.000E+00	0.000E+00	1.133E-06

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

WNW SECTOR BOUNDARY DISTANCE = 823.0 METERS
BUILDING WAKE CREDIT IS NOT INCLUDED.
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

4.879E-05	3.800E-05	3.255E-05	6.969E-06	5.429E-06	4.650E-06	4.048E-06	3.252E-06	3.178E-06	2.534E-06
0.014	0.038	0.048	1.303	4.574	9.264	9.536	12.372	13.953	24.859
0.00062	0.00162	0.00207	0.05572	0.19567	0.39627	0.40793	0.52922	0.59686	1.06337
2.351E-06	2.170E-06	1.951E-06	1.907E-06	1.889E-06	1.614E-06	1.520E-06	1.411E-06	1.319E-06	1.302E-06
28.403	44.980	46.289	47.652	47.979	50.379	64.393	65.810	65.919	82.714
1.21498	1.92407	1.98005	2.03836	2.05236	2.15499	2.75445	2.81509	2.81976	3.53818
1.289E-06	1.133E-06	1.027E-06	9.932E-07	9.686E-07	9.532E-07	8.797E-07	7.918E-07	7.348E-07	6.781E-07
82.823	82.932	86.368	86.422	88.822	89.040	96.674	97.819	97.928	99.346
3.54284	3.54751	3.69445	3.69679	3.79942	3.80875	4.13530	4.18428	4.18895	4.24960
6.545E-07	5.045E-07	4.435E-07	3.455E-07	2.959E-07	2.201E-07				
99.509	99.564	99.618	99.836	99.945	100.000				
4.25659	4.25893	4.26126	4.27059	4.27525	4.27759				

BELOW IS PRINTED THE MAXIMUM VALUE OF CHI/Q AND THE DISTANCE IN METERS FROM THE STACK AT WHICH THE VALUE OCCURRED.
THIS DISTANCE MAY BE WITHIN THE SITE BOUNDARY.

CHI/Q = 4.879E-05 DISTANCE = 8000.000

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 0.002
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 0.396

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HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 4)=   1.922
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 5)=   3.535
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 6)=   4.132

  K  I   XQSAVE(K,I)  XQINT(K,I) XQSLOP(K,I)
  6  1     -9.92807 -15.02759  -1.16679
  6  2    -10.17780 -15.99594  -1.39977
  6  3    -12.27868 -15.73551  -1.30170
  6  4    -13.04082 -17.06571  -1.94427
  6  5    -13.55165 -23.41847  -5.45914
  6  6    -13.94369     NUMXQ(K)=  6
    1.202E-05              0.043              1.000
    7.697E-06              0.128              3.000
    6.166E-06              0.214              5.000
    4.496E-06              0.428             10.000
    3.742E-06              0.642             15.000
    3.268E-06              0.856             20.000
    2.933E-06              1.069             25.000
    2.678E-06              1.283             30.000
    2.475E-06              1.497             35.000
    2.309E-06              1.711             40.000
    2.169E-06              1.925             45.000
    1.993E-06              2.139             50.000
    1.843E-06              2.353             55.000
    1.715E-06              2.567             60.000
    1.603E-06              2.780             65.000
    1.505E-06              2.994             70.000
    1.418E-06              3.208             75.000
    1.341E-06              3.422             80.000
    1.217E-06              3.636             85.000
    1.054E-06              3.850             90.000

    4.193E-06              0.5               11.69

ANNUAL AVERAGE =   1.04E-08

K=  6     FIVEXQ(K)= 4.193E-06     FIVEPR(K)=11.689

FUMIGATION X/Q AT THE BOUNDARY:   5.30E-05

 EXPONENTIAL TERM AND FREQUENCIES

   9.262E-01   6.856E-01   6.365E-01   5.251E-01   4.391E-01   3.926E-01   1.391E-01
       5.071      38.085      43.374      90.607      96.183      99.291     100.000
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE NW SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 152.4 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	3.7	0.17	823.	24.	128.	157.1	310.1	0.0	0.000E+00	0.000E+00	1.600E-06
A	6.2	0.87	823.	24.	128.	157.1	310.1	0.0	0.000E+00	0.000E+00	9.599E-07
A	9.2	0.56	823.	24.	128.	157.1	310.1	0.0	0.000E+00	0.000E+00	6.486E-07
B	1.7	0.09	900.	25.	127.	128.1	98.0	0.0	0.000E+00	0.000E+00	6.224E-06
B	3.7	0.43	900.	25.	127.	128.1	98.0	0.0	0.000E+00	0.000E+00	2.905E-06
B	6.2	1.17	900.	25.	127.	128.1	98.0	0.0	0.000E+00	0.000E+00	1.743E-06
B	9.2	0.35	900.	25.	127.	128.1	98.0	0.0	0.000E+00	0.000E+00	1.178E-06
B	12.0	0.04	900.	25.	127.	128.1	98.0	0.0	0.000E+00	0.000E+00	9.077E-07
C	3.7	0.61	2000.	39.	114.	200.0	114.9	0.0	0.000E+00	0.000E+00	2.261E-06
C	6.2	2.69	2000.	39.	114.	200.0	114.9	0.0	0.000E+00	0.000E+00	1.357E-06
C	9.2	0.48	2000.	39.	114.	200.0	114.9	0.0	0.000E+00	0.000E+00	9.166E-07
D	0.2	0.00	4000.	63.	89.	263.4	78.0	0.0	0.000E+00	0.000E+00	3.225E-05
D	1.7	1.95	4000.	63.	89.	263.4	78.0	0.0	0.000E+00	0.000E+00	4.608E-06
D	3.7	14.72	4000.	63.	89.	263.4	78.0	0.0	0.000E+00	0.000E+00	2.150E-06
D	6.2	20.76	4000.	63.	89.	263.4	78.0	0.0	0.000E+00	0.000E+00	1.290E-06
D	9.2	6.99	4000.	63.	89.	263.4	78.0	0.0	0.000E+00	0.000E+00	8.717E-07
D	12.0	0.61	4000.	63.	89.	263.4	78.0	0.0	0.000E+00	0.000E+00	6.720E-07
D	27.5	0.30	4000.	63.	89.	263.4	78.0	0.0	0.000E+00	0.000E+00	2.932E-07
E	0.3	0.02	7000.	100.	52.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.066E-05
E	2.0	2.65	7000.	100.	52.	310.5	66.2	0.0	0.000E+00	0.000E+00	5.809E-06
E	4.2	14.98	7000.	100.	52.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.711E-06
E	7.0	15.16	7000.	100.	52.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.626E-06
E	10.3	4.26	7000.	100.	52.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.099E-06
E	13.4	0.69	7000.	100.	52.	310.5	66.2	0.0	0.000E+00	0.000E+00	8.471E-07
E	30.7	0.52	7000.	100.	52.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.696E-07
F	0.3	0.01	8000.	104.	48.	241.8	42.4	0.0	0.000E+00	0.000E+00	5.792E-05
F	2.0	1.22	8000.	104.	48.	241.8	42.4	0.0	0.000E+00	0.000E+00	8.274E-06
F	4.2	3.52	8000.	104.	48.	241.8	42.4	0.0	0.000E+00	0.000E+00	3.861E-06
F	7.0	2.08	8000.	104.	48.	241.8	42.4	0.0	0.000E+00	0.000E+00	2.317E-06
F	10.3	0.30	8000.	104.	48.	241.8	42.4	0.0	0.000E+00	0.000E+00	1.565E-06
G	2.0	0.17	8000.	104.	48.	166.9	25.6	0.0	0.000E+00	0.000E+00	6.348E-06
G	4.2	1.22	8000.	104.	48.	166.9	25.6	0.0	0.000E+00	0.000E+00	2.962E-06
G	7.0	0.35	8000.	104.	48.	166.9	25.6	0.0	0.000E+00	0.000E+00	1.777E-06

G	10.3	0.04	8000.	104.	48.	166.9	25.6	0.0	0.000E+00	0.000E+00	1.201E-06

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

NW SECTOR BOUNDARY DISTANCE = 823.0 METERS
BUILDING WAKE CREDIT IS NOT INCLUDED.
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

5.792E-05	4.066E-05	3.225E-05	8.274E-06	6.348E-06	6.224E-06	5.809E-06	4.608E-06	3.861E-06	2.962E-06
0.014	0.033	0.037	1.253	1.427	1.514	4.163	6.117	9.634	10.850
0.00075	0.00177	0.00200	0.06731	0.07664	0.08131	0.22359	0.32856	0.51749	0.58280
2.905E-06	2.711E-06	2.317E-06	2.261E-06	2.150E-06	1.777E-06	1.743E-06	1.626E-06	1.600E-06	1.565E-06
11.284	26.266	28.350	28.958	43.679	44.026	45.199	60.354	60.527	60.831
0.60613	1.41085	1.52281	1.55547	2.34619	2.36485	2.42783	3.24188	3.25121	3.26754
1.357E-06	1.290E-06	1.201E-06	1.178E-06	1.099E-06	9.599E-07	9.166E-07	9.077E-07	8.717E-07	8.471E-07
63.524	84.280	84.324	84.671	88.927	89.795	90.273	90.316	97.308	98.002
3.41215	4.52710	4.52943	4.54809	4.77668	4.82333	4.84899	4.85132	5.22686	5.26418
6.720E-07	6.486E-07	3.696E-07	2.932E-07						
98.610	99.175	99.696	100.000						
5.29683	5.32716	5.35515	5.37148						

BELOW IS PRINTED THE MAXIMUM VALUE OF CHI/Q AND THE DISTANCE IN METERS FROM THE STACK AT WHICH THE VALUE OCCURRED.
THIS DISTANCE MAY BE WITHIN THE SITE BOUNDARY.

CHI/Q = 5.792E-05 DISTANCE = 8000.000

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 0.517
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 2.344

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HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 5)=    4.524
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 6)=    5.223

  K  I   XQSAVE(K,I)  XQINT(K,I) XQSLOP(K,I)
  7  1     -9.75651 -16.40331  -1.53598
  7  2    -12.46456 -14.91865  -0.95701
  7  3    -12.81830 -15.27085  -1.11749
  7  4    -13.04993 -16.49719  -1.73454
  7  5    -13.56075 -23.13451  -5.65518
  7  6    -13.95280     NUMXQ(K)=  6
   1.142E-05              0.054              1.000
   6.939E-06              0.161              3.000
   5.413E-06              0.269              5.000
   3.813E-06              0.537             10.000
   3.321E-06              0.806             15.000
   2.997E-06              1.074             20.000
   2.761E-06              1.343             25.000
   2.556E-06              1.611             30.000
   2.384E-06              1.880             35.000
   2.241E-06              2.149             40.000
   2.104E-06              2.417             45.000
   1.945E-06              2.686             50.000
   1.810E-06              2.954             55.000
   1.692E-06              3.223             60.000
   1.590E-06              3.491             65.000
   1.500E-06              3.760             70.000
   1.419E-06              4.029             75.000
   1.347E-06              4.297             80.000
   1.261E-06              4.566             85.000
   1.080E-06              4.834             90.000

   3.932E-06              0.5                9.31

ANNUAL AVERAGE =   4.91E-09

K=  7     FIVEXQ(K)= 3.932E-06     FIVEPR(K)= 9.308

FUMIGATION X/Q AT THE BOUNDARY:   5.01E-05

 EXPONENTIAL TERM AND FREQUENCIES

   9.179E-01   7.335E-01   6.120E-01   5.212E-01   5.203E-01   4.295E-01   1.664E-01
       1.607      39.882      43.660      50.796      96.135      98.220     100.000
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE NNW SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 152.4 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	3.7	0.09	823.	0.	152.	157.1	310.1	0.0	0.000E+00	0.000E+00	1.545E-06
A	6.2	0.09	823.	0.	152.	157.1	310.1	0.0	0.000E+00	0.000E+00	9.268E-07
B	3.7	0.14	1000.	2.	150.	140.9	110.2	0.0	0.000E+00	0.000E+00	2.164E-06
B	6.2	0.37	1000.	2.	150.	140.9	110.2	0.0	0.000E+00	0.000E+00	1.299E-06
B	9.2	0.37	1000.	2.	150.	140.9	110.2	0.0	0.000E+00	0.000E+00	8.775E-07
B	12.0	0.05	1000.	2.	150.	140.9	110.2	0.0	0.000E+00	0.000E+00	6.764E-07
C	3.7	0.55	2000.	15.	137.	200.0	114.9	0.0	0.000E+00	0.000E+00	1.816E-06
C	6.2	1.01	2000.	15.	137.	200.0	114.9	0.0	0.000E+00	0.000E+00	1.089E-06
C	9.2	0.46	2000.	15.	137.	200.0	114.9	0.0	0.000E+00	0.000E+00	7.361E-07
C	12.0	0.05	2000.	15.	137.	200.0	114.9	0.0	0.000E+00	0.000E+00	5.674E-07
D	0.2	0.00	5000.	55.	98.	322.2	89.1	0.0	0.000E+00	0.000E+00	2.435E-05
D	1.7	1.61	5000.	55.	98.	322.2	89.1	0.0	0.000E+00	0.000E+00	3.479E-06
D	3.7	11.17	5000.	55.	98.	322.2	89.1	0.0	0.000E+00	0.000E+00	1.623E-06
D	6.2	21.42	5000.	55.	98.	322.2	89.1	0.0	0.000E+00	0.000E+00	9.741E-07
D	9.2	5.42	5000.	55.	98.	322.2	89.1	0.0	0.000E+00	0.000E+00	6.582E-07
D	12.0	0.51	5000.	55.	98.	322.2	89.1	0.0	0.000E+00	0.000E+00	5.073E-07
D	27.5	0.32	5000.	55.	98.	322.2	89.1	0.0	0.000E+00	0.000E+00	2.214E-07
E	0.3	0.02	7000.	81.	71.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.101E-05
E	2.0	2.71	7000.	81.	71.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.430E-06
E	4.2	14.29	7000.	81.	71.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.067E-06
E	7.0	20.36	7000.	81.	71.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.240E-06
E	10.3	7.58	7000.	81.	71.	310.5	66.2	0.0	0.000E+00	0.000E+00	8.380E-07
E	13.4	0.51	7000.	81.	71.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.460E-07
E	30.7	0.09	7000.	81.	71.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.819E-07
F	0.3	0.02	8000.	85.	67.	241.8	42.4	0.0	0.000E+00	0.000E+00	3.141E-05
F	2.0	1.47	8000.	85.	67.	241.8	42.4	0.0	0.000E+00	0.000E+00	4.487E-06
F	4.2	4.14	8000.	85.	67.	241.8	42.4	0.0	0.000E+00	0.000E+00	2.094E-06
F	7.0	3.63	8000.	85.	67.	241.8	42.4	0.0	0.000E+00	0.000E+00	1.256E-06
F	10.3	0.37	8000.	85.	67.	241.8	42.4	0.0	0.000E+00	0.000E+00	8.488E-07
G	2.0	0.41	20000.	85.	67.	381.8	33.2	0.0	0.000E+00	0.000E+00	1.628E-06
G	4.2	0.46	20000.	85.	67.	381.8	33.2	0.0	0.000E+00	0.000E+00	7.598E-07
G	7.0	0.28	20000.	85.	67.	381.8	33.2	0.0	0.000E+00	0.000E+00	4.559E-07
G	10.3	0.05	20000.	85.	67.	381.8	33.2	0.0	0.000E+00	0.000E+00	3.080E-07

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

NNW SECTOR BOUNDARY DISTANCE = 823.0 METERS
BUILDING WAKE CREDIT IS NOT INCLUDED.
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

3.141E-05	3.101E-05	2.435E-05	4.487E-06	4.430E-06	3.479E-06	2.164E-06	2.094E-06	2.067E-06	1.816E-06
0.017	0.036	0.040	1.511	4.222	5.831	5.969	10.105	24.398	24.950
0.00086	0.00184	0.00203	0.07667	0.21429	0.29592	0.30292	0.51285	1.23826	1.26625
1.628E-06	1.623E-06	1.545E-06	1.299E-06	1.256E-06	1.240E-06	1.089E-06	9.741E-07	9.268E-07	8.775E-07
25.363	36.531	36.623	36.991	40.621	60.981	61.992	83.409	83.501	83.868
1.28725	1.85405	1.85872	1.87738	2.06165	3.09495	3.14627	4.23323	4.23789	4.25655
8.488E-07	8.380E-07	7.598E-07	7.361E-07	6.764E-07	6.582E-07	6.460E-07	5.674E-07	5.073E-07	4.559E-07
84.236	91.819	92.279	92.739	92.784	98.208	98.713	98.759	99.265	99.540
4.27521	4.66008	4.68340	4.70673	4.70906	4.98430	5.00996	5.01229	5.03795	5.05194
3.080E-07	2.819E-07	2.214E-07							
99.586	99.678	100.000							
5.05427	5.05894	5.07527							

BELOW IS PRINTED THE MAXIMUM VALUE OF CHI/Q AND THE DISTANCE IN METERS FROM THE STACK AT WHICH THE VALUE OCCURRED.
THIS DISTANCE MAY BE WITHIN THE SITE BOUNDARY.

CHI/Q = 3.141E-05 DISTANCE = 8000.000

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 1.237
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 3.092

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HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 5)=   4.230
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 6)=   4.656

  K  I   XQSAVE(K,I)  XQINT(K,I) XQSLOP(K,I)
  8  1     -10.36849 -10.68942  -0.07467
  8  2     -10.38128 -16.32207  -1.43966
  8  3     -13.08933 -16.12345  -1.35120
  8  4     -13.60016 -16.75930  -1.69170
  8  5     -13.84175 -19.54329  -3.30596
  8  6     -13.99220     NUMXQ(K)=  6
    9.253E-06              0.051              1.000
    5.811E-06              0.152              3.000
    4.610E-06              0.254              5.000
    3.303E-06              0.508             10.000
    2.686E-06              0.761             15.000
    2.305E-06              1.015             20.000
    2.041E-06              1.269             25.000
    1.853E-06              1.523             30.000
    1.705E-06              1.776             35.000
    1.583E-06              2.030             40.000
    1.481E-06              2.284             45.000
    1.394E-06              2.538             50.000
    1.319E-06              2.791             55.000
    1.252E-06              3.045             60.000
    1.182E-06              3.299             65.000
    1.117E-06              3.553             70.000
    1.059E-06              3.806             75.000
    1.007E-06              4.060             80.000
    9.459E-07              4.314             85.000
    8.649E-07              4.568             90.000

    3.328E-06              0.5                9.85

ANNUAL AVERAGE =   8.89E-10

K=  8     FIVEXQ(K)= 3.328E-06     FIVEPR(K)= 9.852

FUMIGATION X/Q AT THE BOUNDARY:   4.22E-05

 EXPONENTIAL TERM AND FREQUENCIES

   8.862E-01   5.593E-01   5.490E-01   4.915E-01   3.958E-01   2.826E-01   1.266E-01
       0.184      45.748      86.195      88.264      89.183      98.805     100.000
```

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE N SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 152.4 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	6.2	0.28	823.	0.	152.	157.1	310.1	0.0	0.000E+00	0.000E+00	9.268E-07
A	9.2	0.16	823.	0.	152.	157.1	310.1	0.0	0.000E+00	0.000E+00	6.262E-07
B	3.7	0.07	1000.	3.	149.	140.9	110.2	0.0	0.000E+00	0.000E+00	2.183E-06
B	6.2	0.58	1000.	3.	149.	140.9	110.2	0.0	0.000E+00	0.000E+00	1.310E-06
B	9.2	0.72	1000.	3.	149.	140.9	110.2	0.0	0.000E+00	0.000E+00	8.849E-07
B	12.0	0.12	1000.	3.	149.	140.9	110.2	0.0	0.000E+00	0.000E+00	6.821E-07
B	27.5	0.02	1000.	3.	149.	140.9	110.2	0.0	0.000E+00	0.000E+00	2.977E-07
C	3.7	0.44	2000.	20.	132.	200.0	114.9	0.0	0.000E+00	0.000E+00	1.902E-06
C	6.2	1.68	2000.	20.	132.	200.0	114.9	0.0	0.000E+00	0.000E+00	1.141E-06
C	9.2	1.56	2000.	20.	132.	200.0	114.9	0.0	0.000E+00	0.000E+00	7.710E-07
C	12.0	0.21	2000.	20.	132.	200.0	114.9	0.0	0.000E+00	0.000E+00	5.943E-07
C	27.5	0.02	2000.	20.	132.	200.0	114.9	0.0	0.000E+00	0.000E+00	2.593E-07
D	0.2	0.00	5000.	71.	81.	322.2	89.1	0.0	0.000E+00	0.000E+00	2.921E-05
D	1.7	0.96	5000.	71.	81.	322.2	89.1	0.0	0.000E+00	0.000E+00	4.173E-06
D	3.7	7.00	5000.	71.	81.	322.2	89.1	0.0	0.000E+00	0.000E+00	1.947E-06
D	6.2	16.51	5000.	71.	81.	322.2	89.1	0.0	0.000E+00	0.000E+00	1.168E-06
D	9.2	11.24	5000.	71.	81.	322.2	89.1	0.0	0.000E+00	0.000E+00	7.894E-07
D	12.0	2.31	5000.	71.	81.	322.2	89.1	0.0	0.000E+00	0.000E+00	6.085E-07
D	27.5	0.68	5000.	71.	81.	322.2	89.1	0.0	0.000E+00	0.000E+00	2.655E-07
E	0.3	0.01	7000.	105.	47.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.285E-05
E	2.0	1.63	7000.	105.	47.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.121E-06
E	4.2	10.14	7000.	105.	47.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.857E-06
E	7.0	20.78	7000.	105.	47.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.714E-06
E	10.3	12.03	7000.	105.	47.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.158E-06
E	13.4	1.49	7000.	105.	47.	310.5	66.2	0.0	0.000E+00	0.000E+00	8.927E-07
E	30.7	0.14	7000.	105.	47.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.895E-07
F	0.3	0.01	8000.	110.	42.	241.8	42.4	0.0	0.000E+00	0.000E+00	6.739E-05
F	2.0	0.54	8000.	110.	42.	241.8	42.4	0.0	0.000E+00	0.000E+00	9.628E-06
F	4.2	3.13	8000.	110.	42.	241.8	42.4	0.0	0.000E+00	0.000E+00	4.493E-06
F	7.0	3.03	8000.	110.	42.	241.8	42.4	0.0	0.000E+00	0.000E+00	2.696E-06
F	10.3	1.03	8000.	110.	42.	241.8	42.4	0.0	0.000E+00	0.000E+00	1.821E-06
G	2.0	0.40	8000.	110.	42.	166.9	25.6	0.0	0.000E+00	0.000E+00	9.634E-06
G	4.2	0.79	8000.	110.	42.	166.9	25.6	0.0	0.000E+00	0.000E+00	4.496E-06

G	7.0	0.23	8000.	110.	42.	166.9	25.6	0.0	0.000E+00	0.000E+00	2.697E-06
G	10.3	0.05	8000.	110.	42.	166.9	25.6	0.0	0.000E+00	0.000E+00	1.823E-06

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

N SECTOR BOUNDARY DISTANCE = 823.0 METERS
BUILDING WAKE CREDIT IS NOT INCLUDED.
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

6.739E-05	4.285E-05	2.921E-05	9.634E-06	9.628E-06	6.121E-06	4.496E-06	4.493E-06	4.173E-06	2.857E-06
0.006	0.018	0.020	0.416	0.953	2.585	3.378	6.503	7.460	17.605
0.00062	0.00178	0.00200	0.04165	0.09530	0.25858	0.33788	0.65044	0.74607	1.76072
2.697E-06	2.696E-06	2.183E-06	1.947E-06	1.902E-06	1.823E-06	1.821E-06	1.714E-06	1.310E-06	1.168E-06
17.838	20.870	20.940	27.936	28.379	28.426	29.452	50.232	50.815	67.326
1.78405	2.08727	2.09427	2.79403	2.83835	2.84301	2.94564	5.02392	5.08224	6.73366
1.158E-06	1.141E-06	9.268E-07	8.927E-07	8.849E-07	7.894E-07	7.710E-07	6.821E-07	6.262E-07	6.085E-07
79.360	81.039	81.319	82.812	83.535	94.776	96.339	96.455	96.618	98.927
7.93725	8.10519	8.13318	8.28246	8.35477	9.47904	9.63532	9.64699	9.66331	9.89423
5.943E-07	3.895E-07	2.977E-07	2.655E-07	2.593E-07					
99.137	99.277	99.300	99.977	100.000					
9.91523	9.92922	9.93155	9.99920	10.00153					

BELOW IS PRINTED THE MAXIMUM VALUE OF CHI/Q AND THE DISTANCE IN METERS FROM THE STACK AT WHICH THE VALUE OCCURRED.
THIS DISTANCE MAY BE WITHIN THE SITE BOUNDARY.

CHI/Q = 6.739E-05 DISTANCE = 8000.000

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED

CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 1.759
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 5.020

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 8.101

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
9	1	-9.60498	-15.70635	-1.39602
9	2	-12.76587	-14.51462	-0.83024
9	3	-12.82385	-15.16691	-1.15054
9	4	-13.27670	-16.00934	-1.66331
9	5	-13.68357		

NUMXQ(K)= 5

1.129E-05	0.100	1.000
6.998E-06	0.300	3.000
5.505E-06	0.500	5.000
3.886E-06	1.000	10.000
3.124E-06	1.500	15.000
2.735E-06	2.000	20.000
2.470E-06	2.500	25.000
2.255E-06	3.000	30.000
2.083E-06	3.501	35.000
1.941E-06	4.001	40.000
1.821E-06	4.501	45.000
1.718E-06	5.001	50.000
1.592E-06	5.501	55.000
1.481E-06	6.001	60.000
1.384E-06	6.501	65.000
1.299E-06	7.001	70.000
1.222E-06	7.501	75.000
1.154E-06	8.001	80.000
5.505E-06	0.5	5.00

ANNUAL AVERAGE = 2.53E-09

K= 9 FIVEXQ(K)= 5.505E-06 FIVEPR(K)= 4.999

FUMIGATION X/Q AT THE BOUNDARY: 4.22E-05

EXPONENTIAL TERM AND FREQUENCIES

8.862E-01	7.730E-01	6.584E-01	6.065E-01	5.148E-01	3.992E-01	2.525E-01
0.443	46.678	85.371	93.097	97.015	98.531	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE NNE SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 152.4 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	3.7	0.08	823.	0.	152.	157.1	310.1	0.0	0.000E+00	0.000E+00	1.545E-06
A	6.2	0.28	823.	0.	152.	157.1	310.1	0.0	0.000E+00	0.000E+00	9.268E-07
A	9.2	0.12	823.	0.	152.	157.1	310.1	0.0	0.000E+00	0.000E+00	6.262E-07
B	3.7	0.16	1000.	2.	150.	140.9	110.2	0.0	0.000E+00	0.000E+00	2.164E-06
B	6.2	0.56	1000.	2.	150.	140.9	110.2	0.0	0.000E+00	0.000E+00	1.299E-06
B	9.2	0.36	1000.	2.	150.	140.9	110.2	0.0	0.000E+00	0.000E+00	8.775E-07
B	12.0	0.08	1000.	2.	150.	140.9	110.2	0.0	0.000E+00	0.000E+00	6.764E-07
C	3.7	0.20	2000.	15.	137.	200.0	114.9	0.0	0.000E+00	0.000E+00	1.816E-06
C	6.2	1.47	2000.	15.	137.	200.0	114.9	0.0	0.000E+00	0.000E+00	1.089E-06
C	9.2	0.95	2000.	15.	137.	200.0	114.9	0.0	0.000E+00	0.000E+00	7.361E-07
D	0.2	0.00	5000.	55.	98.	322.2	89.1	0.0	0.000E+00	0.000E+00	2.435E-05
D	1.7	0.91	5000.	55.	98.	322.2	89.1	0.0	0.000E+00	0.000E+00	3.479E-06
D	3.7	7.60	5000.	55.	98.	322.2	89.1	0.0	0.000E+00	0.000E+00	1.623E-06
D	6.2	16.91	5000.	55.	98.	322.2	89.1	0.0	0.000E+00	0.000E+00	9.741E-07
D	9.2	6.60	5000.	55.	98.	322.2	89.1	0.0	0.000E+00	0.000E+00	6.582E-07
D	12.0	0.64	5000.	55.	98.	322.2	89.1	0.0	0.000E+00	0.000E+00	5.073E-07
D	27.5	0.36	5000.	55.	98.	322.2	89.1	0.0	0.000E+00	0.000E+00	2.214E-07
E	0.3	0.02	7000.	81.	71.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.101E-05
E	2.0	2.23	7000.	81.	71.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.430E-06
E	4.2	12.73	7000.	81.	71.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.067E-06
E	7.0	22.95	7000.	81.	71.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.240E-06
E	10.3	9.07	7000.	81.	71.	310.5	66.2	0.0	0.000E+00	0.000E+00	8.380E-07
E	13.4	0.76	7000.	81.	71.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.460E-07
E	30.7	0.16	7000.	81.	71.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.819E-07
F	0.3	0.01	8000.	85.	67.	241.8	42.4	0.0	0.000E+00	0.000E+00	3.141E-05
F	2.0	1.27	8000.	85.	67.	241.8	42.4	0.0	0.000E+00	0.000E+00	4.487E-06
F	4.2	5.61	8000.	85.	67.	241.8	42.4	0.0	0.000E+00	0.000E+00	2.094E-06
F	7.0	4.42	8000.	85.	67.	241.8	42.4	0.0	0.000E+00	0.000E+00	1.256E-06
F	10.3	0.91	8000.	85.	67.	241.8	42.4	0.0	0.000E+00	0.000E+00	8.488E-07
F	13.4	0.12	8000.	85.	67.	241.8	42.4	0.0	0.000E+00	0.000E+00	6.543E-07
G	2.0	0.36	20000.	85.	67.	381.8	33.2	0.0	0.000E+00	0.000E+00	1.628E-06
G	4.2	1.23	20000.	85.	67.	381.8	33.2	0.0	0.000E+00	0.000E+00	7.598E-07
G	7.0	0.84	20000.	85.	67.	381.8	33.2	0.0	0.000E+00	0.000E+00	4.559E-07

G	10.3	0.04	20000.	85.	67.	381.8	33.2	0.0	0.000E+00	0.000E+00	3.080E-07

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

NNE SECTOR BOUNDARY DISTANCE = 823.0 METERS
BUILDING WAKE CREDIT IS NOT INCLUDED.
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

3.141E-05	3.101E-05	2.435E-05	4.487E-06	4.430E-06	3.479E-06	2.164E-06	2.094E-06	2.067E-06	1.816E-06
0.015	0.031	0.033	1.306	3.533	4.448	4.607	10.216	22.946	23.145
0.00086	0.00179	0.00191	0.07655	0.20717	0.26082	0.27015	0.59904	1.34545	1.35711
1.628E-06	1.623E-06	1.545E-06	1.299E-06	1.256E-06	1.240E-06	1.089E-06	9.741E-07	9.268E-07	8.775E-07
23.503	31.101	31.180	31.737	36.153	59.106	60.578	77.484	77.763	78.121
1.37810	1.82361	1.82828	1.86093	2.11985	3.46571	3.55202	4.54334	4.55967	4.58066
8.488E-07	8.380E-07	7.598E-07	7.361E-07	6.764E-07	6.582E-07	6.543E-07	6.460E-07	6.262E-07	5.073E-07
79.036	88.106	89.339	90.294	90.373	96.977	97.096	97.852	97.971	98.608
4.63431	5.16612	5.23843	5.29441	5.29908	5.68628	5.69327	5.73759	5.74459	5.78191
4.559E-07	3.080E-07	2.819E-07	2.214E-07						
99.443	99.483	99.642	100.000						
5.83089	5.83322	5.84255	5.86355						

BELOW IS PRINTED THE MAXIMUM VALUE OF CHI/Q AND THE DISTANCE IN METERS FROM THE STACK AT WHICH THE VALUE OCCURRED.
THIS DISTANCE MAY BE WITHIN THE SITE BOUNDARY.

CHI/Q = 3.141E-05 DISTANCE = 8000.000

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED

CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 1.344
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 3.463

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HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 5)=   4.540
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 6)=   5.162

  K  I   XQSAVE(K,I)  XQINT(K,I) XQSLOP(K,I)
 10  1     -10.36849 -10.70167  -0.07752
 10  2     -10.38128 -16.21178  -1.41078
 10  3     -13.08933 -15.94073  -1.28831
 10  4     -13.60016 -17.09598  -1.92419
 10  5     -13.84175 -17.95168  -2.43016
 10  6     -13.99220     NUMXQ(K)=  6
    8.870E-06              0.059              1.000
    5.593E-06              0.176              3.000
    4.443E-06              0.293              5.000
    3.189E-06              0.586             10.000
    2.595E-06              0.880             15.000
    2.228E-06              1.173             20.000
    1.979E-06              1.466             25.000
    1.802E-06              1.759             30.000
    1.661E-06              2.052             35.000
    1.546E-06              2.345             40.000
    1.448E-06              2.639             45.000
    1.365E-06              2.932             50.000
    1.293E-06              3.225             55.000
    1.224E-06              3.518             60.000
    1.141E-06              3.811             65.000
    1.068E-06              4.104             70.000
    1.004E-06              4.398             75.000
    9.387E-07              4.691             80.000
    8.744E-07              4.984             85.000

    3.449E-06              0.5                8.53

ANNUAL AVERAGE =   1.41E-09

K= 10     FIVEXQ(K)= 3.449E-06     FIVEPR(K)= 8.527

FUMIGATION X/Q AT THE BOUNDARY:   4.22E-05

 EXPONENTIAL TERM AND FREQUENCIES

   8.862E-01   5.593E-01   5.490E-01   4.915E-01   3.958E-01   2.826E-01   1.266E-01
       0.477      48.388      81.408      84.033      85.187      97.534     100.000
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE NE SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 152.4 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	3.7	0.09	823.	0.	152.	157.1	310.1	0.0	0.000E+00	0.000E+00	1.545E-06
A	6.2	0.23	823.	0.	152.	157.1	310.1	0.0	0.000E+00	0.000E+00	9.268E-07
A	9.2	0.09	823.	0.	152.	157.1	310.1	0.0	0.000E+00	0.000E+00	6.262E-07
B	3.7	0.14	1000.	2.	150.	140.9	110.2	0.0	0.000E+00	0.000E+00	2.164E-06
B	6.2	0.61	1000.	2.	150.	140.9	110.2	0.0	0.000E+00	0.000E+00	1.299E-06
B	9.2	0.28	1000.	2.	150.	140.9	110.2	0.0	0.000E+00	0.000E+00	8.775E-07
B	12.0	0.05	1000.	2.	150.	140.9	110.2	0.0	0.000E+00	0.000E+00	6.764E-07
C	3.7	0.33	2000.	15.	137.	200.0	114.9	0.0	0.000E+00	0.000E+00	1.816E-06
C	6.2	1.41	2000.	15.	137.	200.0	114.9	0.0	0.000E+00	0.000E+00	1.089E-06
C	9.2	0.99	2000.	15.	137.	200.0	114.9	0.0	0.000E+00	0.000E+00	7.361E-07
C	12.0	0.19	2000.	15.	137.	200.0	114.9	0.0	0.000E+00	0.000E+00	5.674E-07
C	27.5	0.05	2000.	15.	137.	200.0	114.9	0.0	0.000E+00	0.000E+00	2.476E-07
D	0.2	0.00	5000.	55.	98.	322.2	89.1	0.0	0.000E+00	0.000E+00	2.435E-05
D	1.7	1.50	5000.	55.	98.	322.2	89.1	0.0	0.000E+00	0.000E+00	3.479E-06
D	3.7	7.28	5000.	55.	98.	322.2	89.1	0.0	0.000E+00	0.000E+00	1.623E-06
D	6.2	13.48	5000.	55.	98.	322.2	89.1	0.0	0.000E+00	0.000E+00	9.741E-07
D	9.2	5.92	5000.	55.	98.	322.2	89.1	0.0	0.000E+00	0.000E+00	6.582E-07
D	12.0	0.75	5000.	55.	98.	322.2	89.1	0.0	0.000E+00	0.000E+00	5.073E-07
D	27.5	0.14	5000.	55.	98.	322.2	89.1	0.0	0.000E+00	0.000E+00	2.214E-07
E	0.3	0.02	7000.	81.	71.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.101E-05
E	2.0	2.77	7000.	81.	71.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.430E-06
E	4.2	13.19	7000.	81.	71.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.067E-06
E	7.0	16.62	7000.	81.	71.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.240E-06
E	10.3	10.14	7000.	81.	71.	310.5	66.2	0.0	0.000E+00	0.000E+00	8.380E-07
E	13.4	0.85	7000.	81.	71.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.460E-07
E	30.7	0.09	7000.	81.	71.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.819E-07
F	0.3	0.02	8000.	85.	67.	241.8	42.4	0.0	0.000E+00	0.000E+00	3.141E-05
F	2.0	1.50	8000.	85.	67.	241.8	42.4	0.0	0.000E+00	0.000E+00	4.487E-06
F	4.2	7.32	8000.	85.	67.	241.8	42.4	0.0	0.000E+00	0.000E+00	2.094E-06
F	7.0	7.37	8000.	85.	67.	241.8	42.4	0.0	0.000E+00	0.000E+00	1.256E-06
F	10.3	1.83	8000.	85.	67.	241.8	42.4	0.0	0.000E+00	0.000E+00	8.488E-07
G	2.0	0.28	20000.	85.	67.	381.8	33.2	0.0	0.000E+00	0.000E+00	1.628E-06
G	4.2	1.69	20000.	85.	67.	381.8	33.2	0.0	0.000E+00	0.000E+00	7.598E-07

G	7.0	2.39	20000.	85.	67.	381.8	33.2	0.0	0.000E+00	0.000E+00	4.559E-07
G	10.3	0.38	20000.	85.	67.	381.8	33.2	0.0	0.000E+00	0.000E+00	3.080E-07

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

NE SECTOR BOUNDARY DISTANCE = 823.0 METERS
BUILDING WAKE CREDIT IS NOT INCLUDED.
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

3.141E-05	3.101E-05	2.435E-05	4.487E-06	4.430E-06	3.479E-06	2.164E-06	2.094E-06	2.067E-06	1.816E-06
0.017	0.037	0.040	1.543	4.313	5.815	5.956	13.281	26.474	26.803
0.00086	0.00184	0.00201	0.07665	0.21427	0.28891	0.29591	0.65978	1.31522	1.33155
1.628E-06	1.623E-06	1.545E-06	1.299E-06	1.256E-06	1.240E-06	1.089E-06	9.741E-07	9.268E-07	8.775E-07
27.084	34.362	34.456	35.066	42.438	59.058	60.467	73.942	74.177	74.458
1.34554	1.70709	1.71175	1.74207	2.10828	2.93399	3.00397	3.67340	3.68507	3.69906
8.488E-07	8.380E-07	7.598E-07	7.361E-07	6.764E-07	6.582E-07	6.460E-07	6.262E-07	5.674E-07	5.073E-07
76.290	86.431	88.121	89.107	89.154	95.070	95.915	96.009	96.197	96.948
3.79003	4.29385	4.37783	4.42681	4.42914	4.72304	4.76502	4.76969	4.77902	4.81634
4.559E-07	3.080E-07	2.819E-07	2.476E-07	2.214E-07					
99.343	99.718	99.812	99.859	100.000					
4.93530	4.95396	4.95862	4.96096	4.96795					

BELOW IS PRINTED THE MAXIMUM VALUE OF CHI/Q AND THE DISTANCE IN METERS FROM THE STACK AT WHICH THE VALUE OCCURRED.
THIS DISTANCE MAY BE WITHIN THE SITE BOUNDARY.

CHI/Q = 3.141E-05 DISTANCE = 8000.000

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED

CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 1.314
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 2.931

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HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 5)=   4.290
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 6)=   4.761

  K  I   XQSAVE(K,I)  XQINT(K,I) XQSLOP(K,I)
 11  1     -10.36849 -10.68942  -0.07467
 11  2     -10.38128 -16.24921  -1.42200
 11  3     -13.08933 -16.51740  -1.54270
 11  4     -13.60016 -17.88383  -2.26529
 11  5     -13.99220 -23.02600  -5.25851
 11  6     -14.25249     NUMXQ(K)=  6
    9.472E-06              0.050              1.000
    5.988E-06              0.149              3.000
    4.765E-06              0.248              5.000
    3.431E-06              0.497             10.000
    2.798E-06              0.745             15.000
    2.407E-06              0.994             20.000
    2.133E-06              1.242             25.000
    1.917E-06              1.490             30.000
    1.743E-06              1.739             35.000
    1.602E-06              1.987             40.000
    1.485E-06              2.236             45.000
    1.386E-06              2.484             50.000
    1.301E-06              2.732             55.000
    1.221E-06              2.981             60.000
    1.127E-06              3.229             65.000
    1.045E-06              3.478             70.000
    9.729E-07              3.726             75.000
    9.095E-07              3.974             80.000
    8.531E-07              4.223             85.000
    7.579E-07              4.471             90.000

    3.420E-06              0.5               10.06

ANNUAL AVERAGE =   1.16E-09

K= 11     FIVEXQ(K)= 3.420E-06     FIVEPR(K)=10.065

FUMIGATION X/Q AT THE BOUNDARY:   4.22E-05

 EXPONENTIAL TERM AND FREQUENCIES

   8.862E-01   5.593E-01   5.490E-01   4.915E-01   3.958E-01   2.826E-01   1.266E-01
       0.423      44.107      73.173      76.131      77.211      95.258     100.000
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE ENE SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 152.4 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	6.2	0.33	823.	0.	152.	157.1	310.1	0.0	0.000E+00	0.000E+00	9.268E-07
A	9.2	0.14	823.	0.	152.	157.1	310.1	0.0	0.000E+00	0.000E+00	6.262E-07
A	12.0	0.09	823.	0.	152.	157.1	310.1	0.0	0.000E+00	0.000E+00	4.827E-07
A	27.5	0.09	823.	0.	152.	157.1	310.1	0.0	0.000E+00	0.000E+00	2.106E-07
B	3.7	0.05	1000.	2.	151.	140.9	110.2	0.0	0.000E+00	0.000E+00	2.151E-06
B	6.2	0.38	1000.	2.	151.	140.9	110.2	0.0	0.000E+00	0.000E+00	1.291E-06
B	9.2	0.89	1000.	2.	151.	140.9	110.2	0.0	0.000E+00	0.000E+00	8.722E-07
B	12.0	0.09	1000.	2.	151.	140.9	110.2	0.0	0.000E+00	0.000E+00	6.723E-07
B	27.5	0.05	1000.	2.	151.	140.9	110.2	0.0	0.000E+00	0.000E+00	2.934E-07
C	3.7	0.14	2000.	12.	140.	200.0	114.9	0.0	0.000E+00	0.000E+00	1.754E-06
C	6.2	1.22	2000.	12.	140.	200.0	114.9	0.0	0.000E+00	0.000E+00	1.053E-06
C	9.2	1.46	2000.	12.	140.	200.0	114.9	0.0	0.000E+00	0.000E+00	7.112E-07
C	12.0	0.19	2000.	12.	140.	200.0	114.9	0.0	0.000E+00	0.000E+00	5.482E-07
C	27.5	0.05	2000.	12.	140.	200.0	114.9	0.0	0.000E+00	0.000E+00	2.392E-07
D	0.2	0.00	5000.	43.	109.	322.2	89.1	0.0	0.000E+00	0.000E+00	2.094E-05
D	1.7	0.71	5000.	43.	109.	322.2	89.1	0.0	0.000E+00	0.000E+00	2.991E-06
D	3.7	6.02	5000.	43.	109.	322.2	89.1	0.0	0.000E+00	0.000E+00	1.396E-06
D	6.2	9.93	5000.	43.	109.	322.2	89.1	0.0	0.000E+00	0.000E+00	8.374E-07
D	9.2	8.94	5000.	43.	109.	322.2	89.1	0.0	0.000E+00	0.000E+00	5.658E-07
D	12.0	1.03	5000.	43.	109.	322.2	89.1	0.0	0.000E+00	0.000E+00	4.362E-07
D	27.5	0.28	5000.	43.	109.	322.2	89.1	0.0	0.000E+00	0.000E+00	1.903E-07
E	0.3	0.02	7000.	64.	89.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.267E-05
E	2.0	2.54	7000.	64.	89.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.238E-06
E	4.2	8.80	7000.	64.	89.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.511E-06
E	7.0	13.97	7000.	64.	89.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.067E-07
E	10.3	12.75	7000.	64.	89.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.127E-07
E	13.4	1.41	7000.	64.	89.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.723E-07
E	30.7	0.05	7000.	64.	89.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.061E-07
F	0.3	0.02	10000.	67.	85.	295.8	46.1	0.0	0.000E+00	0.000E+00	1.504E-05
F	2.0	1.55	10000.	67.	85.	295.8	46.1	0.0	0.000E+00	0.000E+00	2.149E-06
F	4.2	5.50	10000.	67.	85.	295.8	46.1	0.0	0.000E+00	0.000E+00	1.003E-06
F	7.0	8.33	10000.	67.	85.	295.8	46.1	0.0	0.000E+00	0.000E+00	6.017E-07
F	10.3	5.13	10000.	67.	85.	295.8	46.1	0.0	0.000E+00	0.000E+00	4.066E-07
F	13.4	0.85	10000.	67.	85.	295.8	46.1	0.0	0.000E+00	0.000E+00	3.134E-07

G	2.0	0.85	90000.	67.	85.	1000.0	46.0	0.0	0.000E+00	0.000E+00	6.316E-07
G	4.2	1.60	90000.	67.	85.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.947E-07
G	7.0	3.29	90000.	67.	85.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.768E-07
G	10.3	1.22	90000.	67.	85.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.195E-07
G	13.4	0.05	90000.	67.	85.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.210E-08

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PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
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TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

ENE SECTOR BOUNDARY DISTANCE = 823.0 METERS
BUILDING WAKE CREDIT IS NOT INCLUDED.
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

2.267E-05	2.094E-05	1.504E-05	3.238E-06	2.991E-06	2.151E-06	2.149E-06	1.754E-06	1.511E-06	1.396E-06
0.018	0.020	0.038	2.578	3.283	3.330	4.883	5.024	13.821	19.842
0.00090	0.00098	0.00186	0.12782	0.16281	0.16514	0.24211	0.24911	0.68529	0.98386
1.291E-06	1.053E-06	1.003E-06	9.268E-07	9.067E-07	8.722E-07	8.374E-07	7.112E-07	6.723E-07	6.316E-07
20.218	21.441	26.945	27.274	41.246	42.139	52.065	53.523	53.617	54.464
1.00252	1.06316	1.33607	1.35240	2.04516	2.08947	2.58164	2.65394	2.65861	2.70060
6.262E-07	6.127E-07	6.017E-07	5.658E-07	5.482E-07	4.827E-07	4.723E-07	4.362E-07	4.066E-07	3.134E-07
54.605	67.353	75.680	84.618	84.806	84.900	86.311	87.346	92.473	93.320
2.70759	3.33971	3.75256	4.19574	4.20507	4.20974	4.27971	4.33103	4.58527	4.62726
2.947E-07	2.934E-07	2.392E-07	2.106E-07	2.061E-07	1.903E-07	1.768E-07	1.195E-07	9.210E-08	
94.920	94.967	95.014	95.108	95.155	95.437	98.730	99.953	100.000	
4.70657	4.70890	4.71123	4.71590	4.71823	4.73222	4.89550	4.95615	4.95848	

BELOW IS PRINTED THE MAXIMUM VALUE OF CHI/Q AND THE DISTANCE IN METERS FROM THE STACK AT WHICH THE VALUE OCCURRED.
THIS DISTANCE MAY BE WITHIN THE SITE BOUNDARY.

CHI/Q = 2.267E-05 DISTANCE = 7000.000

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

CHI/Q	PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED WITH RESPECT TO THE TOTAL TIME	WHEN THE WIND BLOWS INTO THIS SECTOR ONLY
SEC/CUBIC METER		

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 0.983
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 2.579

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HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 4)=   4.192
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 5)=   4.582

 K  I   XQSAVE(K,I)  XQINT(K,I) XQSLOP(K,I)
12  1     -10.69455 -16.80625  -1.42491
12  2     -13.48209 -16.56721  -1.32245
12  3     -13.99292 -17.49654  -1.79985
12  4     -14.38496 -28.00529  -7.87852
12  5     -14.71549     NUMXQ(K)=  5
   5.483E-06              0.050              1.000
   3.463E-06              0.149              3.000
   2.755E-06              0.248              5.000
   1.982E-06              0.496             10.000
   1.616E-06              0.744             15.000
   1.390E-06              0.992             20.000
   1.243E-06              1.240             25.000
   1.131E-06              1.488             30.000
   1.042E-06              1.735             35.000
   9.699E-07              1.983             40.000
   9.090E-07              2.231             45.000
   8.569E-07              2.479             50.000
   8.025E-07              2.727             55.000
   7.494E-07              2.975             60.000
   7.030E-07              3.223             65.000
   6.621E-07              3.471             70.000
   6.257E-07              3.719             75.000
   5.931E-07              3.967             80.000
   5.565E-07              4.215             85.000
   4.500E-07              4.463             90.000

   1.974E-06              0.5               10.08

ANNUAL AVERAGE =   1.18E-09

K= 12     FIVEXQ(K)= 1.974E-06     FIVEPR(K)=10.084

FUMIGATION X/Q AT THE BOUNDARY:   4.22E-05

 EXPONENTIAL TERM AND FREQUENCIES

  8.862E-01   4.749E-01   4.720E-01   4.089E-01   3.934E-01   1.802E-01   1.786E-01
      0.659       3.716      30.625      70.158      71.616      92.991     100.000
```

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE E SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 152.4 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	3.7	0.03	823.	0.	152.	157.1	310.1	0.0	0.000E+00	0.000E+00	1.545E-06
A	6.2	0.24	823.	0.	152.	157.1	310.1	0.0	0.000E+00	0.000E+00	9.268E-07
A	9.2	0.63	823.	0.	152.	157.1	310.1	0.0	0.000E+00	0.000E+00	6.262E-07
A	12.0	0.42	823.	0.	152.	157.1	310.1	0.0	0.000E+00	0.000E+00	4.827E-07
A	27.5	0.06	823.	0.	152.	157.1	310.1	0.0	0.000E+00	0.000E+00	2.106E-07
B	3.7	0.12	1000.	1.	151.	140.9	110.2	0.0	0.000E+00	0.000E+00	2.138E-06
B	6.2	0.63	1000.	1.	151.	140.9	110.2	0.0	0.000E+00	0.000E+00	1.283E-06
B	9.2	0.81	1000.	1.	151.	140.9	110.2	0.0	0.000E+00	0.000E+00	8.666E-07
B	12.0	0.36	1000.	1.	151.	140.9	110.2	0.0	0.000E+00	0.000E+00	6.680E-07
B	27.5	0.18	1000.	1.	151.	140.9	110.2	0.0	0.000E+00	0.000E+00	2.915E-07
C	3.7	0.15	2000.	9.	144.	200.0	114.9	0.0	0.000E+00	0.000E+00	1.690E-06
C	6.2	1.25	2000.	9.	144.	200.0	114.9	0.0	0.000E+00	0.000E+00	1.014E-06
C	9.2	1.67	2000.	9.	144.	200.0	114.9	0.0	0.000E+00	0.000E+00	6.853E-07
C	12.0	0.86	2000.	9.	144.	200.0	114.9	0.0	0.000E+00	0.000E+00	5.282E-07
C	27.5	0.39	2000.	9.	144.	200.0	114.9	0.0	0.000E+00	0.000E+00	2.305E-07
D	0.2	0.00	5000.	31.	121.	322.2	89.1	0.0	0.000E+00	0.000E+00	1.752E-05
D	1.7	0.78	5000.	31.	121.	322.2	89.1	0.0	0.000E+00	0.000E+00	2.503E-06
D	3.7	4.21	5000.	31.	121.	322.2	89.1	0.0	0.000E+00	0.000E+00	1.168E-06
D	6.2	8.98	5000.	31.	121.	322.2	89.1	0.0	0.000E+00	0.000E+00	7.009E-07
D	9.2	11.78	5000.	31.	121.	322.2	89.1	0.0	0.000E+00	0.000E+00	4.736E-07
D	12.0	6.71	5000.	31.	121.	322.2	89.1	0.0	0.000E+00	0.000E+00	3.651E-07
D	27.5	2.68	5000.	31.	121.	322.2	89.1	0.0	0.000E+00	0.000E+00	1.593E-07
E	0.3	0.01	8000.	48.	104.	350.3	70.3	0.0	0.000E+00	0.000E+00	1.537E-05
E	2.0	1.61	8000.	48.	104.	350.3	70.3	0.0	0.000E+00	0.000E+00	2.195E-06
E	4.2	5.16	8000.	48.	104.	350.3	70.3	0.0	0.000E+00	0.000E+00	1.024E-06
E	7.0	11.78	8000.	48.	104.	350.3	70.3	0.0	0.000E+00	0.000E+00	6.147E-07
E	10.3	15.99	8000.	48.	104.	350.3	70.3	0.0	0.000E+00	0.000E+00	4.153E-07
E	13.4	2.33	8000.	48.	104.	350.3	70.3	0.0	0.000E+00	0.000E+00	3.201E-07
E	30.7	0.27	8000.	48.	104.	350.3	70.3	0.0	0.000E+00	0.000E+00	1.397E-07
F	0.3	0.01	20000.	48.	104.	553.1	58.7	0.0	0.000E+00	0.000E+00	7.219E-06
F	2.0	0.89	20000.	48.	104.	553.1	58.7	0.0	0.000E+00	0.000E+00	1.031E-06
F	4.2	2.54	20000.	48.	104.	553.1	58.7	0.0	0.000E+00	0.000E+00	4.813E-07
F	7.0	5.91	20000.	48.	104.	553.1	58.7	0.0	0.000E+00	0.000E+00	2.888E-07
F	10.3	5.01	20000.	48.	104.	553.1	58.7	0.0	0.000E+00	0.000E+00	1.951E-07

F	13.4	0.72	20000.	48.	104.	553.1	58.7	0.0	0.000E+00	0.000E+00	1.504E-07
G	2.0	0.39	90000.	48.	104.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.694E-07
G	4.2	1.19	90000.	48.	104.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.257E-07
G	7.0	2.06	90000.	48.	104.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.544E-08
G	10.3	1.16	90000.	48.	104.	1000.0	46.0	0.0	0.000E+00	0.000E+00	5.097E-08
G	13.4	0.03	90000.	48.	104.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.929E-08
G	30.7	0.03	90000.	48.	104.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.715E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

E SECTOR BOUNDARY DISTANCE = 823.0 METERS
BUILDING WAKE CREDIT IS NOT INCLUDED.
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.752E-05	1.537E-05	7.219E-06	2.503E-06	2.195E-06	2.138E-06	1.690E-06	1.545E-06	1.283E-06	1.168E-06
0.002	0.013	0.024	0.799	2.410	2.529	2.678	2.708	3.334	7.540
0.00014	0.00103	0.00184	0.06249	0.18844	0.19777	0.20944	0.21177	0.26075	0.58964
1.031E-06	1.024E-06	1.014E-06	9.268E-07	8.666E-07	7.009E-07	6.853E-07	6.680E-07	6.262E-07	6.147E-07
8.434	13.594	14.847	15.086	15.891	24.869	26.539	26.897	27.523	39.304
0.65961	1.06314	1.16111	1.17977	1.24274	1.94483	2.07546	2.10345	2.15243	3.07378
5.282E-07	4.827E-07	4.813E-07	4.736E-07	4.153E-07	3.651E-07	3.201E-07	2.915E-07	2.888E-07	2.694E-07
40.169	40.587	43.122	54.903	70.890	77.601	79.927	80.106	86.012	86.399
3.14142	3.17408	3.37234	4.29369	5.54392	6.06874	6.25068	6.26467	6.72651	6.75683
2.305E-07	2.106E-07	1.951E-07	1.593E-07	1.504E-07	1.397E-07	1.257E-07	7.544E-08	5.097E-08	3.929E-08
86.787	86.847	91.858	94.542	95.258	95.526	96.719	98.777	99.940	99.970
6.78716	6.79182	7.18368	7.39361	7.44959	7.47059	7.56389	7.72483	7.81580	7.81813
1.715E-08									
100.000									
7.82046									

BELOW IS PRINTED THE MAXIMUM VALUE OF CHI/Q AND THE DISTANCE IN METERS FROM THE STACK AT WHICH THE VALUE OCCURRED.
THIS DISTANCE MAY BE WITHIN THE SITE BOUNDARY.

CHI/Q = 1.752E-05 DISTANCE = 5000.000

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED
CHI/Q WITH RESPECT TO WHEN THE WIND BLOWS

SEC/CUBIC METER THE TOTAL TIME INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 0.188
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 1.160
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 3.071
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 5.540
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(7)= 6.065

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
13	1	-10.95201	-12.37745	-0.30397
13	2	-11.08330	-17.17374	-1.43052
13	3	-13.02921	-16.59710	-1.23149
13	4	-13.80138	-16.64560	-1.25285
13	5	-14.30217	-16.96023	-1.42106
13	6	-14.69422	-19.24042	-2.85101
13	7	-14.82322	NUMXQ(K)= 7	

3.210E-06	0.078	1.000
2.015E-06	0.235	3.000
1.639E-06	0.391	5.000
1.216E-06	0.782	10.000
1.009E-06	1.173	15.000
8.767E-07	1.564	20.000
7.829E-07	1.955	25.000
7.117E-07	2.346	30.000
6.551E-07	2.737	35.000
6.079E-07	3.128	40.000
5.639E-07	3.519	45.000
5.266E-07	3.910	50.000
4.943E-07	4.301	55.000
4.661E-07	4.692	60.000
4.412E-07	5.083	65.000
4.190E-07	5.474	70.000
3.834E-07	5.865	75.000
1.478E-06	0.5	6.39

ANNUAL AVERAGE = 2.85E-09

K= 13 FIVEXQ(K)= 1.478E-06 FIVEPR(K)= 6.393

FUMIGATION X/Q AT THE BOUNDARY: 4.22E-05

EXPONENTIAL TERM AND FREQUENCIES

8.862E-01	4.576E-01	3.950E-01	3.909E-01	3.324E-01	2.058E-01	7.618E-02
1.372	5.697	40.833	42.921	80.066	95.138	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE ESE SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 152.4 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	6.2	0.24	823.	0.	152.	157.1	310.1	0.0	0.000E+00	0.000E+00	9.268E-07
A	9.2	0.24	823.	0.	152.	157.1	310.1	0.0	0.000E+00	0.000E+00	6.262E-07
A	12.0	0.05	823.	0.	152.	157.1	310.1	0.0	0.000E+00	0.000E+00	4.827E-07
A	27.5	0.13	823.	0.	152.	157.1	310.1	0.0	0.000E+00	0.000E+00	2.106E-07
B	3.7	0.08	1000.	2.	151.	140.9	110.2	0.0	0.000E+00	0.000E+00	2.151E-06
B	6.2	0.24	1000.	2.	151.	140.9	110.2	0.0	0.000E+00	0.000E+00	1.291E-06
B	9.2	0.53	1000.	2.	151.	140.9	110.2	0.0	0.000E+00	0.000E+00	8.722E-07
B	12.0	0.37	1000.	2.	151.	140.9	110.2	0.0	0.000E+00	0.000E+00	6.723E-07
B	27.5	0.19	1000.	2.	151.	140.9	110.2	0.0	0.000E+00	0.000E+00	2.934E-07
C	3.7	0.13	2000.	12.	140.	200.0	114.9	0.0	0.000E+00	0.000E+00	1.754E-06
C	6.2	0.69	2000.	12.	140.	200.0	114.9	0.0	0.000E+00	0.000E+00	1.053E-06
C	9.2	1.57	2000.	12.	140.	200.0	114.9	0.0	0.000E+00	0.000E+00	7.112E-07
C	12.0	0.80	2000.	12.	140.	200.0	114.9	0.0	0.000E+00	0.000E+00	5.482E-07
C	27.5	0.72	2000.	12.	140.	200.0	114.9	0.0	0.000E+00	0.000E+00	2.392E-07
D	0.2	0.00	5000.	43.	109.	322.2	89.1	0.0	0.000E+00	0.000E+00	2.094E-05
D	1.7	1.01	5000.	43.	109.	322.2	89.1	0.0	0.000E+00	0.000E+00	2.991E-06
D	3.7	2.59	5000.	43.	109.	322.2	89.1	0.0	0.000E+00	0.000E+00	1.396E-06
D	6.2	9.48	5000.	43.	109.	322.2	89.1	0.0	0.000E+00	0.000E+00	8.374E-07
D	9.2	17.99	5000.	43.	109.	322.2	89.1	0.0	0.000E+00	0.000E+00	5.658E-07
D	12.0	11.96	5000.	43.	109.	322.2	89.1	0.0	0.000E+00	0.000E+00	4.362E-07
D	27.5	4.03	5000.	43.	109.	322.2	89.1	0.0	0.000E+00	0.000E+00	1.903E-07
E	0.3	0.01	7000.	64.	89.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.267E-05
E	2.0	0.96	7000.	64.	89.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.238E-06
E	4.2	3.68	7000.	64.	89.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.511E-06
E	7.0	9.45	7000.	64.	89.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.067E-07
E	10.3	15.56	7000.	64.	89.	310.5	66.2	0.0	0.000E+00	0.000E+00	6.127E-07
E	13.4	2.96	7000.	64.	89.	310.5	66.2	0.0	0.000E+00	0.000E+00	4.723E-07
E	30.7	0.32	7000.	64.	89.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.061E-07
F	0.3	0.01	10000.	67.	85.	295.8	46.1	0.0	0.000E+00	0.000E+00	1.504E-05
F	2.0	0.75	10000.	67.	85.	295.8	46.1	0.0	0.000E+00	0.000E+00	2.149E-06
F	4.2	1.76	10000.	67.	85.	295.8	46.1	0.0	0.000E+00	0.000E+00	1.003E-06
F	7.0	3.74	10000.	67.	85.	295.8	46.1	0.0	0.000E+00	0.000E+00	6.017E-07
F	10.3	3.68	10000.	67.	85.	295.8	46.1	0.0	0.000E+00	0.000E+00	4.066E-07
F	13.4	0.48	10000.	67.	85.	295.8	46.1	0.0	0.000E+00	0.000E+00	3.134E-07

G	2.0	0.37	90000.	67.	85.	1000.0	46.0	0.0	0.000E+00	0.000E+00	6.316E-07
G	4.2	0.93	90000.	67.	85.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.947E-07
G	7.0	1.17	90000.	67.	85.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.768E-07
G	10.3	1.04	90000.	67.	85.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.195E-07
G	13.4	0.05	90000.	67.	85.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.210E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

ESE SECTOR BOUNDARY DISTANCE = 823.0 METERS
BUILDING WAKE CREDIT IS NOT INCLUDED.
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

2.267E-05	2.094E-05	1.504E-05	3.238E-06	2.991E-06	2.151E-06	2.149E-06	1.754E-06	1.511E-06	1.396E-06
0.007	0.009	0.018	0.979	1.993	2.073	2.820	2.954	6.637	9.226
0.00060	0.00080	0.00155	0.08552	0.17416	0.18116	0.24647	0.25813	0.58002	0.80627
1.291E-06	1.053E-06	1.003E-06	9.268E-07	9.067E-07	8.722E-07	8.374E-07	7.112E-07	6.723E-07	6.316E-07
9.466	10.160	11.922	12.162	21.610	22.144	31.619	33.194	33.568	33.941
0.82727	0.88791	1.04186	1.06285	1.88856	1.93521	2.76326	2.90088	2.93354	2.96619
6.262E-07	6.127E-07	6.017E-07	5.658E-07	5.482E-07	4.827E-07	4.723E-07	4.362E-07	4.066E-07	3.134E-07
34.181	49.742	53.479	71.468	72.269	72.322	75.285	87.242	90.925	91.406
2.98718	4.34704	4.67360	6.24572	6.31570	6.32036	6.57927	7.62424	7.94613	7.98812
2.947E-07	2.934E-07	2.392E-07	2.106E-07	2.061E-07	1.903E-07	1.768E-07	1.195E-07	9.210E-08	
92.340	92.527	93.247	93.381	93.701	97.731	98.906	99.947	100.000	
8.06975	8.08608	8.14906	8.16072	8.18871	8.54092	8.64356	8.73452	8.73919	

BELOW IS PRINTED THE MAXIMUM VALUE OF CHI/Q AND THE DISTANCE IN METERS FROM THE STACK AT WHICH THE VALUE OCCURRED.
THIS DISTANCE MAY BE WITHIN THE SITE BOUNDARY.

CHI/Q = 2.267E-05 DISTANCE = 7000.000

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 0.001
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 0.174

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HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 4)=   0.805
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 5)=   2.761
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 6)=   6.242
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 7)=   7.620
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K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
14	1	-10.69455	-16.18867	-1.25483
14	2	-10.77404	-16.80111	-1.39677
14	3	-12.71995	-17.04087	-1.47882
14	4	-13.48209	-15.99454	-1.04403
14	5	-13.99292	-15.95833	-1.02514
14	6	-14.38496	-18.23686	-2.50973
14	7	-14.64524	NUMXQ(K)= 7	

4.002E-06	0.087	1.000
2.468E-06	0.262	3.000
1.921E-06	0.437	5.000
1.353E-06	0.874	10.000
1.153E-06	1.311	15.000
1.023E-06	1.748	20.000
9.298E-07	2.185	25.000
8.576E-07	2.622	30.000
8.000E-07	3.059	35.000
7.525E-07	3.496	40.000
7.120E-07	3.933	45.000
6.770E-07	4.370	50.000
6.462E-07	4.807	55.000
6.188E-07	5.244	60.000
5.942E-07	5.680	65.000
5.720E-07	6.117	70.000
5.319E-07	6.554	75.000
4.891E-07	6.991	80.000
4.516E-07	7.428	85.000
1.794E-06	0.5	5.72

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ANNUAL AVERAGE =   1.87E-09

K= 14     FIVEXQ(K)= 1.794E-06     FIVEPR(K)= 5.721

FUMIGATION X/Q AT THE BOUNDARY:   4.22E-05

 EXPONENTIAL TERM AND FREQUENCIES

  8.862E-01   4.749E-01   4.720E-01   4.089E-01   3.934E-01   1.802E-01   1.786E-01
      0.667       4.591      51.648      84.591      86.006      96.423     100.000
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE SE SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 152.4 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	6.2	0.04	823.	0.	152.	157.1	310.1	0.0	0.000E+00	0.000E+00	9.268E-07
A	9.2	0.06	823.	0.	152.	157.1	310.1	0.0	0.000E+00	0.000E+00	6.262E-07
A	27.5	0.02	823.	0.	152.	157.1	310.1	0.0	0.000E+00	0.000E+00	2.106E-07
B	3.7	0.08	1000.	1.	151.	140.9	110.2	0.0	0.000E+00	0.000E+00	2.134E-06
B	6.2	0.04	1000.	1.	151.	140.9	110.2	0.0	0.000E+00	0.000E+00	1.280E-06
B	9.2	0.19	1000.	1.	151.	140.9	110.2	0.0	0.000E+00	0.000E+00	8.651E-07
B	12.0	0.08	1000.	1.	151.	140.9	110.2	0.0	0.000E+00	0.000E+00	6.668E-07
C	3.7	0.06	2000.	8.	145.	200.0	114.9	0.0	0.000E+00	0.000E+00	1.674E-06
C	6.2	0.55	2000.	8.	145.	200.0	114.9	0.0	0.000E+00	0.000E+00	1.004E-06
C	9.2	0.74	2000.	8.	145.	200.0	114.9	0.0	0.000E+00	0.000E+00	6.785E-07
C	12.0	0.59	2000.	8.	145.	200.0	114.9	0.0	0.000E+00	0.000E+00	5.230E-07
C	27.5	0.13	2000.	8.	145.	200.0	114.9	0.0	0.000E+00	0.000E+00	2.282E-07
D	0.2	0.00	5000.	28.	125.	322.2	89.1	0.0	0.000E+00	0.000E+00	1.667E-05
D	1.7	0.76	5000.	28.	125.	322.2	89.1	0.0	0.000E+00	0.000E+00	2.381E-06
D	3.7	4.10	5000.	28.	125.	322.2	89.1	0.0	0.000E+00	0.000E+00	1.111E-06
D	6.2	11.52	5000.	28.	125.	322.2	89.1	0.0	0.000E+00	0.000E+00	6.667E-07
D	9.2	22.08	5000.	28.	125.	322.2	89.1	0.0	0.000E+00	0.000E+00	4.505E-07
D	12.0	11.54	5000.	28.	125.	322.2	89.1	0.0	0.000E+00	0.000E+00	3.473E-07
D	27.5	3.91	5000.	28.	125.	322.2	89.1	0.0	0.000E+00	0.000E+00	1.515E-07
E	0.3	0.01	8000.	43.	109.	350.3	70.3	0.0	0.000E+00	0.000E+00	1.379E-05
E	2.0	0.83	8000.	43.	109.	350.3	70.3	0.0	0.000E+00	0.000E+00	1.970E-06
E	4.2	3.61	8000.	43.	109.	350.3	70.3	0.0	0.000E+00	0.000E+00	9.196E-07
E	7.0	11.03	8000.	43.	109.	350.3	70.3	0.0	0.000E+00	0.000E+00	5.517E-07
E	10.3	13.83	8000.	43.	109.	350.3	70.3	0.0	0.000E+00	0.000E+00	3.728E-07
E	13.4	1.89	8000.	43.	109.	350.3	70.3	0.0	0.000E+00	0.000E+00	2.874E-07
E	30.7	0.13	8000.	43.	109.	350.3	70.3	0.0	0.000E+00	0.000E+00	1.254E-07
F	0.3	0.01	20000.	43.	109.	553.1	58.7	0.0	0.000E+00	0.000E+00	6.182E-06
F	2.0	0.55	20000.	43.	109.	553.1	58.7	0.0	0.000E+00	0.000E+00	8.832E-07
F	4.2	2.00	20000.	43.	109.	553.1	58.7	0.0	0.000E+00	0.000E+00	4.121E-07
F	7.0	3.78	20000.	43.	109.	553.1	58.7	0.0	0.000E+00	0.000E+00	2.473E-07
F	10.3	1.91	20000.	43.	109.	553.1	58.7	0.0	0.000E+00	0.000E+00	1.671E-07
G	2.0	0.28	90000.	43.	109.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.093E-07
G	4.2	1.49	90000.	43.	109.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.768E-08

G	7.0	1.95	90000.	43.	109.	1000.0	46.0	0.0	0.000E+00	0.000E+00	5.861E-08
G	10.3	0.19	90000.	43.	109.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.960E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

SE SECTOR BOUNDARY DISTANCE = 823.0 METERS
BUILDING WAKE CREDIT IS NOT INCLUDED.
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.667E-05	1.379E-05	6.182E-06	2.381E-06	2.134E-06	1.970E-06	1.674E-06	1.280E-06	1.111E-06	1.004E-06
0.002	0.008	0.014	0.779	0.864	1.692	1.756	1.799	5.899	6.452
0.00019	0.00084	0.00154	0.08551	0.09484	0.18581	0.19280	0.19747	0.64765	0.70829
9.268E-07	9.196E-07	8.832E-07	8.651E-07	6.785E-07	6.668E-07	6.667E-07	6.262E-07	5.517E-07	5.230E-07
6.494	10.106	10.658	10.850	11.593	11.678	23.194	23.258	34.285	34.880
0.71296	1.10949	1.17013	1.19112	1.27276	1.28209	2.54632	2.55332	3.76390	3.82921
4.505E-07	4.121E-07	3.728E-07	3.473E-07	2.874E-07	2.473E-07	2.282E-07	2.106E-07	2.093E-07	1.671E-07
56.955	58.952	72.783	84.320	86.211	89.993	90.120	90.142	90.418	92.330
6.25270	6.47196	7.99044	9.25700	9.46459	9.87978	9.89378	9.89611	9.92643	10.13636
1.515E-07	1.254E-07	9.768E-08	5.861E-08	3.960E-08					
96.239	96.367	97.854	99.809	100.000					
10.56554	10.57954	10.74282	10.95741	10.97840					

BELOW IS PRINTED THE MAXIMUM VALUE OF CHI/Q AND THE DISTANCE IN METERS FROM THE STACK AT WHICH THE VALUE OCCURRED.
THIS DISTANCE MAY BE WITHIN THE SITE BOUNDARY.

CHI/Q = 1.667E-05 DISTANCE = 5000.000

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 0.647
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 9.254

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 K  I   XQSAVE(K,I)  XQINT(K,I) XQSLOP(K,I)
15  1     -11.00199 -13.75410  -0.59539
15  2     -11.19132 -17.15179  -1.38474
15  3     -13.71004 -16.08744  -0.95651
15  4     -13.89937 -16.06609  -0.94718
15  5     -14.61291 -16.52435  -1.24587
15  6     -14.87319     NUMXQ(K)=  6
   2.471E-06              0.110              1.000
   1.532E-06              0.329              3.000
   1.205E-06              0.549              5.000
   9.231E-07              1.098             10.000
   7.946E-07              1.647             15.000
   7.106E-07              2.196             20.000
   6.493E-07              2.745             25.000
   6.017E-07              3.294             30.000
   5.631E-07              3.842             35.000
   5.308E-07              4.391             40.000
   5.032E-07              4.940             45.000
   4.792E-07              5.489             50.000
   4.581E-07              6.038             55.000
   4.358E-07              6.587             60.000
   4.138E-07              7.136             65.000
   3.941E-07              7.685             70.000
   3.763E-07              8.234             75.000
   3.601E-07              8.783             80.000

   1.260E-06              0.5                4.55

ANNUAL AVERAGE =   8.26E-10

K= 15     FIVEXQ(K)= 1.260E-06     FIVEPR(K)= 4.554

FUMIGATION X/Q AT THE BOUNDARY:   4.22E-05

 EXPONENTIAL TERM AND FREQUENCIES

  8.862E-01   4.531E-01   3.902E-01   3.758E-01   2.984E-01   1.763E-01   5.918E-02
      0.127       2.210       2.613      56.517      87.841      96.091     100.000
```

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE SSE SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 152.4 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	3.7	0.02	823.	31.	121.	157.1	310.1	0.0	0.000E+00	0.000E+00	1.614E-06
A	6.2	0.17	823.	31.	121.	157.1	310.1	0.0	0.000E+00	0.000E+00	9.686E-07
A	9.2	0.32	823.	31.	121.	157.1	310.1	0.0	0.000E+00	0.000E+00	6.545E-07
A	12.0	0.02	823.	31.	121.	157.1	310.1	0.0	0.000E+00	0.000E+00	5.045E-07
A	27.5	0.02	823.	31.	121.	157.1	310.1	0.0	0.000E+00	0.000E+00	2.201E-07
B	3.7	0.06	823.	31.	121.	118.1	88.8	0.0	0.000E+00	0.000E+00	3.178E-06
B	6.2	0.48	823.	31.	121.	118.1	88.8	0.0	0.000E+00	0.000E+00	1.907E-06
B	9.2	0.71	823.	31.	121.	118.1	88.8	0.0	0.000E+00	0.000E+00	1.289E-06
B	12.0	0.11	823.	31.	121.	118.1	88.8	0.0	0.000E+00	0.000E+00	9.932E-07
C	3.7	0.48	2000.	33.	119.	200.0	114.9	0.0	0.000E+00	0.000E+00	2.156E-06
C	6.2	2.16	2000.	33.	119.	200.0	114.9	0.0	0.000E+00	0.000E+00	1.294E-06
C	9.2	2.01	2000.	33.	119.	200.0	114.9	0.0	0.000E+00	0.000E+00	8.743E-07
C	12.0	0.37	2000.	33.	119.	200.0	114.9	0.0	0.000E+00	0.000E+00	6.739E-07
D	0.2	0.00	4000.	37.	116.	263.4	78.0	0.0	0.000E+00	0.000E+00	2.070E-05
D	1.7	1.08	4000.	37.	116.	263.4	78.0	0.0	0.000E+00	0.000E+00	2.958E-06
D	3.7	8.31	4000.	37.	116.	263.4	78.0	0.0	0.000E+00	0.000E+00	1.380E-06
D	6.2	20.04	4000.	37.	116.	263.4	78.0	0.0	0.000E+00	0.000E+00	8.282E-07
D	9.2	19.82	4000.	37.	116.	263.4	78.0	0.0	0.000E+00	0.000E+00	5.596E-07
D	12.0	5.23	4000.	37.	116.	263.4	78.0	0.0	0.000E+00	0.000E+00	4.313E-07
D	27.5	1.36	4000.	37.	116.	263.4	78.0	0.0	0.000E+00	0.000E+00	1.882E-07
E	0.3	0.01	7000.	42.	110.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.394E-05
E	2.0	0.73	7000.	42.	110.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.992E-06
E	4.2	4.38	7000.	42.	110.	310.5	66.2	0.0	0.000E+00	0.000E+00	9.295E-07
E	7.0	11.10	7000.	42.	110.	310.5	66.2	0.0	0.000E+00	0.000E+00	5.577E-07
E	10.3	10.11	7000.	42.	110.	310.5	66.2	0.0	0.000E+00	0.000E+00	3.768E-07
E	13.4	0.93	7000.	42.	110.	310.5	66.2	0.0	0.000E+00	0.000E+00	2.905E-07
E	30.7	0.22	7000.	42.	110.	310.5	66.2	0.0	0.000E+00	0.000E+00	1.267E-07
F	0.3	0.01	20000.	43.	109.	553.1	58.7	0.0	0.000E+00	0.000E+00	6.182E-06
F	2.0	0.48	20000.	43.	109.	553.1	58.7	0.0	0.000E+00	0.000E+00	8.832E-07
F	4.2	2.09	20000.	43.	109.	553.1	58.7	0.0	0.000E+00	0.000E+00	4.121E-07
F	7.0	2.72	20000.	43.	109.	553.1	58.7	0.0	0.000E+00	0.000E+00	2.473E-07
F	10.3	0.69	20000.	43.	109.	553.1	58.7	0.0	0.000E+00	0.000E+00	1.671E-07
F	13.4	0.11	20000.	43.	109.	553.1	58.7	0.0	0.000E+00	0.000E+00	1.288E-07

G	2.0	0.41	90000.	43.	109.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.093E-07
G	4.2	1.27	90000.	43.	109.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.768E-08
G	7.0	1.84	90000.	43.	109.	1000.0	46.0	0.0	0.000E+00	0.000E+00	5.861E-08
G	10.3	0.11	90000.	43.	109.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.960E-08
G	30.7	0.02	90000.	43.	109.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.332E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

SSE SECTOR BOUNDARY DISTANCE = 823.0 METERS
BUILDING WAKE CREDIT IS NOT INCLUDED.
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

2.070E-05	1.394E-05	6.182E-06	3.178E-06	2.958E-06	2.156E-06	1.992E-06	1.907E-06	1.614E-06	1.380E-06
0.002	0.008	0.013	0.078	1.158	1.633	2.367	2.842	2.864	11.178
0.00026	0.00083	0.00142	0.00842	0.12504	0.17636	0.25567	0.30698	0.30931	1.20734
1.294E-06	1.289E-06	9.932E-07	9.686E-07	9.295E-07	8.832E-07	8.743E-07	8.282E-07	6.739E-07	6.545E-07
13.338	14.050	14.158	14.331	18.715	19.190	21.198	41.239	41.606	41.930
1.44059	1.51756	1.52922	1.54788	2.02139	2.07270	2.28963	4.45421	4.49386	4.52885
5.596E-07	5.577E-07	5.045E-07	4.313E-07	4.121E-07	3.768E-07	2.905E-07	2.473E-07	2.201E-07	2.093E-07
61.754	72.855	72.876	78.102	80.197	90.304	91.232	93.953	93.975	94.385
6.67011	7.86903	7.87136	8.43583	8.66208	9.75371	9.85400	10.14790	10.15024	10.19455
1.882E-07	1.671E-07	1.288E-07	1.267E-07	9.768E-08	5.861E-08	3.960E-08	1.332E-08		
95.746	96.437	96.545	96.761	98.035	99.870	99.978	100.000		
10.34150	10.41614	10.42781	10.45113	10.58875	10.78702	10.79868	10.80101		

BELOW IS PRINTED THE MAXIMUM VALUE OF CHI/Q AND THE DISTANCE IN METERS FROM THE STACK AT WHICH THE VALUE OCCURRED.
THIS DISTANCE MAY BE WITHIN THE SITE BOUNDARY.

CHI/Q = 2.070E-05 DISTANCE = 4000.000

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED

CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 1.206
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 7.865

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 9.751

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
16	1	-10.78519	-16.15022	-1.17814
16	2	-13.49324	-15.22974	-0.76999
16	3	-13.56201	-15.61977	-0.95006
16	4	-14.00407	-16.35182	-1.38052
16	5	-14.39950	-19.08640	-3.31419
16	6	-14.79154	NUMXQ(K)= 6	

3.594E-06	0.108	1.000
2.394E-06	0.324	3.000
1.952E-06	0.540	5.000
1.451E-06	1.080	10.000
1.257E-06	1.620	15.000
1.124E-06	2.160	20.000
1.027E-06	2.700	25.000
9.517E-07	3.240	30.000
8.906E-07	3.780	35.000
8.396E-07	4.320	40.000
7.818E-07	4.860	45.000
7.283E-07	5.401	50.000
6.821E-07	5.941	55.000
6.418E-07	6.481	60.000
6.061E-07	7.021	65.000
5.743E-07	7.561	70.000
5.295E-07	8.101	75.000
4.713E-07	8.641	80.000
4.218E-07	9.181	85.000
3.792E-07	9.721	90.000
2.015E-06	0.5	4.63

ANNUAL AVERAGE = 6.16E-09

K= 16 FIVEXQ(K)= 2.015E-06 FIVEPR(K)= 4.629

FUMIGATION X/Q AT THE BOUNDARY: 5.30E-05

EXPONENTIAL TERM AND FREQUENCIES

9.262E-01	5.837E-01	3.926E-01	3.340E-01	2.515E-01	1.763E-01	5.918E-02
0.561	5.572	6.932	62.780	90.255	96.350	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE ALL SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 152.4 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.7	0.01	823.	30.	122.	157.1	310.1	0.0	0.000E+00	0.000E+00	3.457E-06
A	3.7	0.51	823.	30.	122.	157.1	310.1	0.0	0.000E+00	0.000E+00	1.613E-06
A	6.2	0.53	823.	30.	122.	157.1	310.1	0.0	0.000E+00	0.000E+00	9.679E-07
A	9.2	0.28	823.	30.	122.	157.1	310.1	0.0	0.000E+00	0.000E+00	6.540E-07
A	12.0	0.06	823.	30.	122.	157.1	310.1	0.0	0.000E+00	0.000E+00	5.041E-07
A	27.5	0.03	823.	30.	122.	157.1	310.1	0.0	0.000E+00	0.000E+00	2.200E-07
B	1.7	0.05	900.	31.	121.	128.1	98.0	0.0	0.000E+00	0.000E+00	6.759E-06
B	3.7	0.47	900.	31.	121.	128.1	98.0	0.0	0.000E+00	0.000E+00	3.154E-06
B	6.2	0.54	900.	31.	121.	128.1	98.0	0.0	0.000E+00	0.000E+00	1.892E-06
B	9.2	0.44	900.	31.	121.	128.1	98.0	0.0	0.000E+00	0.000E+00	1.279E-06
B	12.0	0.12	900.	31.	121.	128.1	98.0	0.0	0.000E+00	0.000E+00	9.857E-07
B	27.5	0.03	900.	31.	121.	128.1	98.0	0.0	0.000E+00	0.000E+00	4.301E-07
C	1.7	0.08	2000.	43.	109.	200.0	114.9	0.0	0.000E+00	0.000E+00	5.038E-06
C	3.7	0.77	2000.	43.	109.	200.0	114.9	0.0	0.000E+00	0.000E+00	2.351E-06
C	6.2	1.33	2000.	43.	109.	200.0	114.9	0.0	0.000E+00	0.000E+00	1.411E-06
C	9.2	1.04	2000.	43.	109.	200.0	114.9	0.0	0.000E+00	0.000E+00	9.532E-07
C	12.0	0.30	2000.	43.	109.	200.0	114.9	0.0	0.000E+00	0.000E+00	7.348E-07
C	27.5	0.13	2000.	43.	109.	200.0	114.9	0.0	0.000E+00	0.000E+00	3.206E-07
D	0.2	0.00	4000.	69.	83.	263.4	78.0	0.0	0.000E+00	0.000E+00	3.519E-05
D	1.7	2.07	4000.	69.	83.	263.4	78.0	0.0	0.000E+00	0.000E+00	5.028E-06
D	3.7	9.39	4000.	69.	83.	263.4	78.0	0.0	0.000E+00	0.000E+00	2.346E-06
D	6.2	15.72	4000.	69.	83.	263.4	78.0	0.0	0.000E+00	0.000E+00	1.408E-06
D	9.2	12.23	4000.	69.	83.	263.4	78.0	0.0	0.000E+00	0.000E+00	9.512E-07
D	12.0	4.24	4000.	69.	83.	263.4	78.0	0.0	0.000E+00	0.000E+00	7.332E-07
D	27.5	1.39	4000.	69.	83.	263.4	78.0	0.0	0.000E+00	0.000E+00	3.199E-07
E	0.3	0.01	6000.	100.	52.	270.1	61.6	0.0	0.000E+00	0.000E+00	4.769E-05
E	2.0	1.97	6000.	100.	52.	270.1	61.6	0.0	0.000E+00	0.000E+00	6.812E-06
E	4.2	8.90	6000.	100.	52.	270.1	61.6	0.0	0.000E+00	0.000E+00	3.179E-06
E	7.0	13.85	6000.	100.	52.	270.1	61.6	0.0	0.000E+00	0.000E+00	1.907E-06
E	10.3	9.53	6000.	100.	52.	270.1	61.6	0.0	0.000E+00	0.000E+00	1.289E-06
E	13.4	1.29	6000.	100.	52.	270.1	61.6	0.0	0.000E+00	0.000E+00	9.935E-07
E	30.7	0.23	6000.	100.	52.	270.1	61.6	0.0	0.000E+00	0.000E+00	4.335E-07
F	0.3	0.01	8000.	128.	24.	241.8	42.4	0.0	0.000E+00	0.000E+00	9.416E-05
F	2.0	1.01	8000.	128.	24.	241.8	42.4	0.0	0.000E+00	0.000E+00	1.345E-05

F	4.2	3.14	8000.	128.	24.	241.8	42.4	0.0	0.000E+00	0.000E+00	6.277E-06
F	7.0	3.52	8000.	128.	24.	241.8	42.4	0.0	0.000E+00	0.000E+00	3.766E-06
F	10.3	1.55	8000.	128.	24.	241.8	42.4	0.0	0.000E+00	0.000E+00	2.545E-06
F	13.4	0.16	8000.	128.	24.	241.8	42.4	0.0	0.000E+00	0.000E+00	1.962E-06
F	30.7	0.01	8000.	128.	24.	241.8	42.4	0.0	0.000E+00	0.000E+00	8.560E-07
G	2.0	0.43	8000.	128.	24.	166.9	25.6	0.0	0.000E+00	0.000E+00	2.419E-05
G	4.2	1.17	8000.	128.	24.	166.9	25.6	0.0	0.000E+00	0.000E+00	1.129E-05
G	7.0	1.14	8000.	128.	24.	166.9	25.6	0.0	0.000E+00	0.000E+00	6.772E-06
G	10.3	0.31	8000.	128.	24.	166.9	25.6	0.0	0.000E+00	0.000E+00	4.576E-06
G	13.4	0.01	8000.	128.	24.	166.9	25.6	0.0	0.000E+00	0.000E+00	3.527E-06
G	30.7	0.00	8000.	128.	24.	166.9	25.6	0.0	0.000E+00	0.000E+00	1.539E-06

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:
DIRECTION-INDEPENDENT (S.R.P 2.3.4) MODEL.
MINIMUM BOUNDARY DISTANCE = 823.0 METERS.
BUILDING WAKE CREDIT IS NOT INCLUDED.
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

9.416E-05	4.769E-05	3.519E-05	2.419E-05	1.345E-05	1.129E-05	6.812E-06	6.772E-06	6.759E-06	6.277E-06
0.012	0.026	0.030	0.464	1.474	2.647	4.614	5.750	5.796	8.938
0.01166	0.02566	0.03032	0.46417	1.47416	2.64742	4.61373	5.74967	5.79632	8.93823
5.038E-06	5.028E-06	4.576E-06	3.766E-06	3.527E-06	3.457E-06	3.179E-06	3.154E-06	2.545E-06	2.351E-06
9.015	11.082	11.390	14.907	14.916	14.923	23.820	24.291	25.844	26.609
9.01521	11.08182	11.38972	14.90716	14.91649	14.92349	23.81974	24.29091	25.84437	26.60944
2.346E-06	1.962E-06	1.907E-06	1.892E-06	1.613E-06	1.539E-06	1.411E-06	1.408E-06	1.289E-06	1.279E-06
36.000	36.161	50.007	50.550	51.064	51.068	52.398	68.117	77.643	78.084
36.00018	36.16113	50.00699	50.55047	51.06363	51.06829	52.39783	68.11671	77.64275	78.08360
9.935E-07	9.857E-07	9.679E-07	9.532E-07	9.512E-07	8.560E-07	7.348E-07	7.332E-07	6.540E-07	5.041E-07
79.378	79.499	80.031	81.074	93.303	93.315	93.618	97.859	98.136	98.195
79.37814	79.49944	80.03125	81.07389	93.30331	93.31498	93.61821	97.85874	98.13631	98.19463
4.335E-07	4.301E-07	3.206E-07	3.199E-07	2.200E-07					
98.423	98.458	98.584	99.972	100.000					
98.42321	98.45820	98.58415	99.97201	100.00000					

BELOW IS PRINTED THE MAXIMUM VALUE OF CHI/Q AND THE DISTANCE IN METERS FROM THE STACK AT WHICH THE VALUE OCCURRED.
THIS DISTANCE MAY BE WITHIN THE SITE BOUNDARY.

CHI/Q = 9.416E-05 DISTANCE = 8000.000

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED
CHI/Q WITH RESPECT TO WHEN THE WIND BLOWS

SEC/CUBIC METER THE TOTAL TIME INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 8.935

1.960E-05	1.000	1.000
1.169E-05	3.000	3.000
8.893E-06	5.000	5.000
5.871E-06	10.000	10.000
4.524E-06	15.000	15.000
3.678E-06	20.000	20.000
3.104E-06	25.000	25.000
2.786E-06	30.000	30.000
2.521E-06	35.000	35.000
2.293E-06	40.000	40.000
2.092E-06	45.000	45.000
1.911E-06	50.000	50.000
1.797E-06	55.000	55.000
1.694E-06	60.000	60.000
1.594E-06	65.000	65.000
1.494E-06	70.000	70.000
1.394E-06	75.000	75.000
1.290E-06	80.000	80.000
1.178E-06	85.000	85.000
1.052E-06	90.000	90.000
8.893E-06	5.0	5.00

K= 17 FIVEXQ(K)= 8.893E-06 FIVEPR(K)= 5.000

FUMIGATION X/Q AT THE BOUNDARY: 5.26E-05

EXPONENTIAL TERM AND FREQUENCIES

9.255E-01	8.474E-01	6.964E-01	6.365E-01	6.339E-01	5.677E-01	4.664E-01
1.416	10.823	46.594	50.238	53.303	98.342	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

FIVE PERCENT OVERALL SITE LIMIT
BUILDING WAKE CREDIT IS NOT INCLUDED.
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.005E-04	6.739E-05	5.792E-05	5.074E-05	4.879E-05	4.285E-05	4.066E-05	3.800E-05	3.495E-05	3.255E-05
0.001	0.001	0.003	0.003	0.004	0.005	0.007	0.008	0.009	0.009
0.00059	0.00121	0.00267	0.00326	0.00388	0.00505	0.00707	0.00807	0.00864	0.00909
3.225E-05	3.141E-05	3.101E-05	2.921E-05	2.689E-05	2.604E-05	2.435E-05	2.419E-05	2.309E-05	2.267E-05
0.010	0.013	0.015	0.016	0.016	0.017	0.018	0.043	0.044	0.045
0.00995	0.01254	0.01543	0.01564	0.01625	0.01724	0.01772	0.04338	0.04369	0.04518
2.167E-05	2.094E-05	2.070E-05	2.048E-05	1.924E-05	1.831E-05	1.752E-05	1.667E-05	1.537E-05	1.504E-05
0.045	0.046	0.046	0.047	0.048	0.049	0.049	0.049	0.050	0.051
0.04549	0.04576	0.04603	0.04676	0.04759	0.04859	0.04873	0.04892	0.04981	0.05146
1.435E-05	1.394E-05	1.379E-05	1.172E-05	1.129E-05	9.634E-06	9.628E-06	8.984E-06	8.274E-06	7.248E-06
0.103	0.103	0.104	0.104	0.156	0.195	0.249	0.250	0.376	0.460
0.10277	0.10334	0.10398	0.10449	0.15581	0.19546	0.24911	0.24981	0.37577	0.45974
7.219E-06	6.969E-06	6.811E-06	6.772E-06	6.697E-06	6.348E-06	6.224E-06	6.182E-06	6.121E-06	5.809E-06
0.461	0.514	0.526	0.535	0.614	0.647	0.673	0.674	0.837	1.122
0.46055	0.51420	0.52586	0.53519	0.61449	0.64715	0.67281	0.67410	0.83738	1.12194
5.702E-06	5.429E-06	5.399E-06	4.993E-06	4.849E-06	4.845E-06	4.650E-06	4.617E-06	4.608E-06	4.496E-06
1.127	1.267	1.271	1.523	1.525	1.560	1.761	1.789	2.172	2.251
1.12661	1.26656	1.27123	1.52314	1.52547	1.56046	1.76106	1.78905	2.17158	2.25089
4.493E-06	4.487E-06	4.430E-06	4.315E-06	4.173E-06	4.048E-06	4.018E-06	3.861E-06	3.842E-06	3.720E-06
2.563	2.787	3.193	3.205	3.301	3.312	3.343	3.599	3.867	4.007
2.56344	2.78737	3.19323	3.20489	3.30052	3.31219	3.34251	3.59909	3.86733	4.00728
3.479E-06	3.459E-06	3.383E-06	3.298E-06	3.252E-06	3.238E-06	3.178E-06	3.095E-06	2.991E-06	2.962E-06
4.217	4.224	4.574	4.712	4.833	5.043	5.279	5.414	5.537	5.647
4.21721	4.22420	4.57408	4.71170	4.83299	5.04292	5.27850	5.41379	5.53741	5.64704
2.958E-06	2.926E-06	2.905E-06	2.857E-06	2.749E-06	2.715E-06	2.711E-06	2.697E-06	2.696E-06	2.661E-06
5.764	5.866	5.948	6.963	7.035	7.037	8.353	8.376	8.679	8.733

5.76367	5.86630	5.94794	6.96259	7.03490	7.03723	8.35277	8.37610	8.67933	8.73297
2.615E-06	2.534E-06	2.519E-06	2.503E-06	2.381E-06	2.351E-06	2.330E-06	2.317E-06	2.263E-06	2.261E-06
8.873	9.339	9.381	9.442	9.526	9.678	10.233	10.363	10.480	10.599
8.87292	9.33943	9.38142	9.44206	9.52603	9.67765	10.23279	10.36341	10.48003	10.59899
2.199E-06	2.195E-06	2.183E-06	2.170E-06	2.164E-06	2.156E-06	2.155E-06	2.151E-06	2.150E-06	2.149E-06
10.671	10.797	10.804	11.513	11.537	11.588	11.653	11.663	13.237	13.379
10.67130	10.79726	10.80426	11.51334	11.53667	11.58798	11.65329	11.66262	13.23708	13.37936
2.138E-06	2.134E-06	2.094E-06	2.067E-06	2.030E-06	2.014E-06	1.992E-06	1.970E-06	1.951E-06	1.947E-06
13.389	13.398	14.301	16.428	16.792	16.843	16.922	17.013	17.069	17.769
13.38869	13.39802	14.30071	16.42797	16.79185	16.84316	16.92247	17.01344	17.06942	17.76917
1.907E-06	1.902E-06	1.889E-06	1.823E-06	1.821E-06	1.816E-06	1.793E-06	1.777E-06	1.754E-06	1.743E-06
17.916	17.960	17.974	17.979	18.082	18.138	19.152	19.176	19.194	19.292
17.91612	17.96044	17.97443	17.97910	18.08173	18.13771	19.15236	19.17568	19.19435	19.29231
1.736E-06	1.714E-06	1.690E-06	1.675E-06	1.674E-06	1.628E-06	1.626E-06	1.623E-06	1.614E-06	1.600E-06
19.952	22.031	22.042	22.087	22.094	22.150	23.199	24.573	24.895	24.995
19.95242	22.03070	22.04236	22.08668	22.09368	22.14965	23.19929	24.57315	24.89503	24.99533
1.597E-06	1.587E-06	1.573E-06	1.565E-06	1.545E-06	1.539E-06	1.520E-06	1.512E-06	1.511E-06	1.444E-06
25.030	25.051	25.105	25.121	25.138	25.907	26.507	26.537	27.295	27.787
25.03032	25.05132	25.10496	25.12129	25.13762	25.90735	26.50681	26.53713	27.29520	27.78737
1.411E-06	1.398E-06	1.396E-06	1.380E-06	1.371E-06	1.365E-06	1.358E-06	1.357E-06	1.319E-06	1.319E-06
27.848	28.433	28.958	29.856	29.917	30.299	30.332	30.516	30.614	30.619
27.84801	28.43348	28.95830	29.85632	29.91696	30.29950	30.33215	30.51642	30.61439	30.61905
1.310E-06	1.302E-06	1.299E-06	1.294E-06	1.293E-06	1.291E-06	1.290E-06	1.289E-06	1.283E-06	1.283E-06
30.677	31.396	31.477	31.711	31.732	31.771	33.535	33.642	33.703	33.782
30.67737	31.39579	31.47742	31.71068	31.73167	31.77132	33.53471	33.64201	33.70265	33.78196
1.283E-06	1.280E-06	1.256E-06	1.240E-06	1.220E-06	1.208E-06	1.201E-06	1.178E-06	1.168E-06	1.168E-06
33.831	33.836	34.645	37.850	38.398	38.442	38.445	38.466	40.117	40.446
33.83094	33.83561	34.64500	37.84989	38.39803	38.44235	38.44468	38.46567	40.11710	40.44598
1.158E-06	1.141E-06	1.133E-06	1.111E-06	1.099E-06	1.089E-06	1.079E-06	1.076E-06	1.057E-06	1.053E-06
41.650	41.817	41.822	42.272	42.527	42.734	42.741	43.513	43.532	43.653
41.64957	41.81751	41.82217	42.27235	42.52660	42.73419	42.74119	43.51325	43.53191	43.65321
1.042E-06	1.031E-06	1.027E-06	1.024E-06	1.021E-06	1.014E-06	1.004E-06	1.003E-06	9.932E-07	9.741E-07
44.029	44.099	44.246	44.649	44.654	44.752	44.812	45.239	45.256	48.003
44.02874	44.09872	44.24567	44.64920	44.65386	44.75183	44.81247	45.23933	45.25565	48.00336
9.686E-07	9.599E-07	9.532E-07	9.520E-07	9.446E-07	9.439E-07	9.295E-07	9.268E-07	9.234E-07	9.196E-07
48.232	48.346	48.356	48.377	48.575	48.621	49.095	49.216	50.431	50.828
48.23195	48.34624	48.35557	48.37656	48.57483	48.62148	49.09498	49.21627	50.43151	50.82804
9.173E-07	9.166E-07	9.077E-07	9.067E-07	8.927E-07	8.915E-07	8.849E-07	8.832E-07	8.797E-07	8.775E-07
50.835	50.868	50.870	52.388	52.538	52.580	52.652	52.764	53.091	53.144
50.83504	50.86769	50.87003	52.38850	52.53778	52.57977	52.65207	52.76403	53.09059	53.14424

8.743E-07	8.735E-07	8.722E-07	8.717E-07	8.667E-07	8.666E-07	8.651E-07	8.488E-07	8.471E-07	8.380E-07
53.361	53.370	53.461	53.993	54.807	54.870	54.891	55.055	55.101	56.522
53.36116	53.37049	53.46146	53.99328	54.80733	54.87031	54.89130	55.05458	55.10123	56.52174
8.374E-07	8.316E-07	8.282E-07	8.192E-07	8.163E-07	7.977E-07	7.918E-07	7.894E-07	7.873E-07	7.816E-07
57.842	57.847	60.011	60.480	60.499	60.529	60.578	61.702	61.705	61.793
57.84195	57.84661	60.01119	60.48003	60.49869	60.52901	60.57800	61.70227	61.70461	61.79324
7.710E-07	7.696E-07	7.598E-07	7.361E-07	7.348E-07	7.323E-07	7.281E-07	7.269E-07	7.112E-07	7.071E-07
61.949	61.980	62.159	62.288	62.292	63.148	63.179	63.487	63.697	63.699
61.94952	61.97984	62.15945	62.28774	62.29240	63.14844	63.17876	63.48666	63.69658	63.69891
7.039E-07	7.009E-07	6.872E-07	6.853E-07	6.821E-07	6.785E-07	6.781E-07	6.764E-07	6.739E-07	6.723E-07
63.834	64.536	64.546	64.676	64.688	64.770	64.830	64.840	64.879	64.916
63.83420	64.53629	64.54562	64.67625	64.68791	64.76955	64.83020	64.83953	64.87918	64.91650
6.720E-07	6.680E-07	6.668E-07	6.667E-07	6.582E-07	6.545E-07	6.543E-07	6.486E-07	6.460E-07	6.433E-07
64.975	65.003	65.012	66.276	67.233	67.296	67.303	67.375	67.487	67.496
64.97481	65.00280	65.01213	66.27636	67.23270	67.29567	67.30267	67.37497	67.48693	67.49626
6.378E-07	6.316E-07	6.292E-07	6.262E-07	6.239E-07	6.147E-07	6.127E-07	6.085E-07	6.017E-07	5.990E-07
67.517	67.592	67.594	67.706	68.630	69.551	71.543	71.774	72.513	72.744
67.51726	67.59190	67.59423	67.70618	68.62987	69.55122	71.54319	71.77411	72.51352	72.74444
5.943E-07	5.856E-07	5.674E-07	5.658E-07	5.603E-07	5.596E-07	5.577E-07	5.535E-07	5.517E-07	5.482E-07
72.765	73.125	73.136	75.152	75.226	77.367	78.566	78.655	79.866	79.945
72.76543	73.12464	73.13631	75.15160	75.22624	77.36750	78.56642	78.65506	79.86564	79.94495
5.426E-07	5.282E-07	5.230E-07	5.073E-07	5.045E-07	4.999E-07	4.959E-07	4.948E-07	4.916E-07	4.827E-07
79.973	80.041	80.106	80.206	80.215	80.218	80.222	80.586	80.619	80.661
79.97294	80.04058	80.10589	80.20619	80.21552	80.21786	80.22252	80.58640	80.61905	80.66103
4.813E-07	4.810E-07	4.736E-07	4.723E-07	4.690E-07	4.613E-07	4.559E-07	4.514E-07	4.505E-07	4.435E-07
80.859	81.030	81.951	82.280	82.338	82.340	82.522	82.585	85.009	85.011
80.85929	81.02956	81.95091	82.27980	82.33811	82.34045	82.52238	82.58536	85.00885	85.01118
4.362E-07	4.313E-07	4.267E-07	4.153E-07	4.121E-07	4.066E-07	3.895E-07	3.814E-07	3.768E-07	3.762E-07
86.107	86.672	86.691	87.941	88.386	88.962	88.976	89.030	90.122	90.147
86.10747	86.67194	86.69060	87.94083	88.38634	88.96248	88.97647	89.03012	90.12174	90.14740
3.728E-07	3.723E-07	3.696E-07	3.651E-07	3.594E-07	3.473E-07	3.455E-07	3.201E-07	3.177E-07	3.169E-07
91.666	91.696	91.726	92.251	92.440	93.707	93.716	93.898	93.926	93.928
91.66587	91.69619	91.72652	92.25134	92.44027	93.70683	93.71616	93.89810	93.92609	93.92843
3.134E-07	3.080E-07	2.999E-07	2.977E-07	2.959E-07	2.947E-07	2.934E-07	2.932E-07	2.915E-07	2.905E-07
94.012	94.036	94.038	94.040	94.045	94.206	94.225	94.246	94.260	94.360
94.01240	94.03573	94.03806	94.04040	94.04506	94.20601	94.22467	94.24566	94.25965	94.35995
2.888E-07	2.874E-07	2.819E-07	2.746E-07	2.694E-07	2.655E-07	2.593E-07	2.476E-07	2.473E-07	2.445E-07
94.822	95.029	95.048	95.057	95.088	95.155	95.158	95.160	95.869	95.888
94.82178	95.02938	95.04803	95.05737	95.08768	95.15533	95.15766	95.16000	95.86909	95.88775

2.428E-07	2.392E-07	2.368E-07	2.305E-07	2.294E-07	2.282E-07	2.234E-07	2.214E-07	2.201E-07	2.106E-07
95.897	95.962	96.009	96.039	96.084	96.098	96.102	96.147	96.151	96.175
95.89708	95.96239	96.00905	96.03937	96.08369	96.09768	96.10234	96.14666	96.15133	96.17465
2.099E-07	2.093E-07	2.061E-07	1.970E-07	1.951E-07	1.903E-07	1.882E-07	1.872E-07	1.862E-07	1.768E-07
96.210	96.284	96.315	96.331	96.723	97.089	97.236	97.238	97.241	97.506
96.20964	96.28428	96.31461	96.33093	96.72279	97.08900	97.23595	97.23828	97.24062	97.50652
1.755E-07	1.749E-07	1.671E-07	1.664E-07	1.593E-07	1.515E-07	1.504E-07	1.397E-07	1.376E-07	1.288E-07
97.616	97.625	97.910	97.926	98.136	98.565	98.621	98.642	98.654	98.666
97.61615	97.62548	97.91005	97.92638	98.13631	98.56549	98.62147	98.64246	98.65413	98.66579
1.267E-07	1.257E-07	1.254E-07	1.195E-07	1.053E-07	9.768E-08	9.210E-08	7.544E-08	7.117E-08	5.861E-08
98.689	98.782	98.796	98.948	98.985	99.286	99.293	99.454	99.456	99.869
98.68912	98.78242	98.79641	98.94802	98.98534	99.28624	99.29324	99.45418	99.45651	99.86937
5.097E-08	3.960E-08	3.929E-08	1.715E-08	1.332E-08					
99.960	99.993	99.995	99.998	100.000					
99.96033	99.99300	99.99533	99.99767	100.00000					

BELOW IS PRINTED THE MAXIMUM VALUE OF CHI/Q AND THE DISTANCE IN METERS FROM THE STACK AT WHICH THE VALUE OCCURRED.
THIS DISTANCE MAY BE WITHIN THE SITE BOUNDARY.

CHI/Q = 9.416E-05 DISTANCE = 8000.000

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED

CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 0.007
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 0.015
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 0.045
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 0.049
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(7)= 0.103
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(8)= 0.375
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(9)= 0.614
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(13)= 3.864
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(14)= 5.275

ERROR IN SUBROUTINE ENVLOP

K	HIGHPR	PR	GRNDVT(K)
1	-3.26367	0.05500	6.21119
2	-3.27329	0.05316	3.52599
3	-2.59407	0.47424	3.10868
4	-2.66257	0.38773	3.53145

5	-2.93953	0.16436	4.76778
6	-2.77623	0.27497	4.27759
7	-2.79525	0.25930	5.37148
8	-2.92583	0.17177	5.07527
9	-2.57624	0.49942	10.00153
10	-2.90756	0.18214	5.86355
11	-2.91093	0.18018	4.96796
12	-3.29591	0.04906	4.95848
13	-3.53989	0.02002	7.82046
14	-3.35865	0.03917	8.73919
15	-3.64106	0.01358	10.97840
16	-3.42944	0.03025	10.80101

K	HOURS(K)	TOTHRS
1	4.81776	4.81776
2	4.65641	9.47417
3	41.54328	51.01745
4	33.96551	84.98296
5	14.39792	99.38088
6	24.08721	123.46810
7	22.71503	146.18310
8	15.04746	161.23060
9	43.74879	204.97940
10	15.95545	220.93480
11	15.78419	236.71900
12	4.29771	241.01670
13	1.75386	242.77060
14	3.43096	246.20160
15	1.18943	247.39100
16	2.64984	250.04080

K	FIVEXQ	SVANN	SLTIME	TIMINT	I	TIME	XQT
1	2.288E-06	3.759E-09	-0.7646	-12.4576			
					1	8.0	-14.04764
					2	16.0	-14.57764
					3	72.0	-15.72771
					4	624.0	-17.37892
2	2.185E-06	4.503E-09	-0.7376	-12.5228			
					1	8.0	-14.05652
					2	16.0	-14.56775
					3	72.0	-15.67709
					4	624.0	-17.26983
3	5.339E-06	5.044E-09	-0.8306	-11.5648			
					1	8.0	-13.29195
					2	16.0	-13.86767
					3	72.0	-15.11693
					4	624.0	-16.91056
4	4.878E-06	1.022E-08	-0.7356	-11.7209			
					1	8.0	-13.25043
					2	16.0	-13.76029
					3	72.0	-14.86664
					4	624.0	-16.45509
5	3.489E-06	1.635E-08	-0.6396	-12.1226			

				1	8.0	-13.45257
				2	16.0	-13.89589
				3	72.0	-14.85785
				4	624.0	-16.23900
6	4.193E-06	1.043E-08	-0.7152	-11.8863		
				1	8.0	-13.37345
				2	16.0	-13.86916
				3	72.0	-14.94481
				4	624.0	-16.48919
7	3.932E-06	4.911E-09	-0.7973	-11.8936		
				1	8.0	-13.55156
				2	16.0	-14.10421
				3	72.0	-15.30342
				4	624.0	-17.02519
8	3.328E-06	8.886E-10	-0.9813	-11.9330		
				1	8.0	-13.97352
				2	16.0	-14.65370
				3	72.0	-16.12963
				4	624.0	-18.24871
9	5.505E-06	2.533E-09	-0.9164	-11.4747		
				1	8.0	-13.38022
				2	16.0	-14.01540
				3	72.0	-15.39369
				4	624.0	-17.37258
10	3.449E-06	1.412E-09	-0.9304	-11.9324		
				1	8.0	-13.86706
				2	16.0	-14.51195
				3	72.0	-15.91131
				4	624.0	-17.92045
11	3.420E-06	1.161E-09	-0.9527	-11.9254		
				1	8.0	-13.90652
				2	16.0	-14.56688
				3	72.0	-15.99983
				4	624.0	-18.05718
12	1.974E-06	1.177E-09	-0.8855	-12.5215		
				1	8.0	-14.36291
				2	16.0	-14.97669
				3	72.0	-16.30857
				4	624.0	-18.22080
13	1.478E-06	2.853E-09	-0.7454	-12.9078		
				1	8.0	-14.45788
				2	16.0	-14.97457
				3	72.0	-16.09575
				4	624.0	-17.70549
14	1.794E-06	1.874E-09	-0.8186	-12.6636		
				1	8.0	-14.36595
				2	16.0	-14.93339
				3	72.0	-16.16468
				4	624.0	-17.93253
15	1.260E-06	8.258E-10	-0.8742	-12.9784		
				1	8.0	-14.79627
				2	16.0	-15.40222
				3	72.0	-16.71710

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                                                  4   624.0    -18.60493
16 2.015E-06 6.157E-09    -0.6906   -12.6364
                                                  1     8.0    -14.07242
                                                  2    16.0    -14.55111
                                                  3    72.0    -15.58983
                                                  4   624.0    -17.08117
17 8.893E-06 1.635E-08    -0.7512   -11.1095
                                                  1     8.0    -12.67154
                                                  2    16.0    -13.19221
                                                  3    72.0    -14.32202
                                                  4   624.0    -15.94416
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

RELATIVE CONCENTRATION (X/Q) VALUES (SEC/CUBIC METER)
VERSUS
AVERAGING TIME

DOWNWIND SECTOR	DISTANCE (METERS)	0-2 HOURS	0-8 HOURS	8-24 HOURS	1-4 DAYS	4-30 DAYS	ANNUAL AVERAGE	HOURS PER YEAR MAX 0-2 HR X/Q IS EXCEEDED IN SECTOR	DOWNWIND SECTOR
S	823.	2.29E-06	7.93E-07	4.67E-07	1.48E-07	2.83E-08	3.76E-09	4.8	S
SSW	823.	2.18E-06	7.86E-07	4.71E-07	1.55E-07	3.16E-08	4.50E-09	4.7	SSW
SW	823.	5.34E-06	1.69E-06	9.49E-07	2.72E-07	4.53E-08	5.04E-09	41.5	SW
WSW	823.	4.88E-06	1.76E-06	1.06E-06	3.50E-07	7.14E-08	1.02E-08	34.0	WSW
W	823.	3.49E-06	1.44E-06	9.23E-07	3.53E-07	8.86E-08	1.64E-08	14.4	W
WNW	823.	4.19E-06	1.56E-06	9.48E-07	3.23E-07	6.90E-08	1.04E-08	24.1	WNW
NW	823.	3.93E-06	1.30E-06	7.49E-07	2.26E-07	4.04E-08	4.91E-09	22.7	NW
NNW	823.	3.33E-06	8.54E-07	4.32E-07	9.89E-08	1.19E-08	8.89E-10	15.0	NNW
N	823.	5.50E-06	1.55E-06	8.19E-07	2.06E-07	2.85E-08	2.53E-09	43.7	N
NNE	823.	3.45E-06	9.50E-07	4.98E-07	1.23E-07	1.65E-08	1.41E-09	16.0	NNE
NE	823.	3.42E-06	9.13E-07	4.72E-07	1.13E-07	1.44E-08	1.16E-09	15.8	NE
ENE	823.	1.97E-06	5.78E-07	3.13E-07	8.27E-08	1.22E-08	1.18E-09	4.3	ENE
E	823.	1.48E-06	5.26E-07	3.14E-07	1.02E-07	2.04E-08	2.85E-09	1.8	E
ESE	823.	1.79E-06	5.77E-07	3.27E-07	9.54E-08	1.63E-08	1.87E-09	3.4	ESE
SE	823.	1.26E-06	3.75E-07	2.05E-07	5.49E-08	8.32E-09	8.26E-10	1.2	SE
SSE	823.	2.01E-06	7.73E-07	4.79E-07	1.70E-07	3.82E-08	6.16E-09	2.6	SSE
MAX X/Q		5.50E-06				TOTAL HOURS AROUND SITE:		250.0	
SRP 2.3.4	823.	8.89E-06	3.14E-06	1.87E-06	6.03E-07	1.19E-07	1.64E-08		
SITE LIMIT		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-08		

0.5 PERCENT X/Q TO AN INDIVIDUAL IS LIMITING.

X/Q VALUES (SEC/CUBIC METER) FOR FUMIGATION AT THE BOUNDARY:

DOWNWIND SECTOR	DISTANCE (METERS)	FUMIGATION X/Q
S	823.	5.30E-05
SSW	823.	4.79E-05
SW	823.	4.58E-05
WSW	823.	5.01E-05
W	823.	5.30E-05
WNW	823.	5.30E-05
NW	823.	5.01E-05
NNW	823.	4.22E-05
N	823.	4.22E-05
NNE	823.	4.22E-05
NE	823.	4.22E-05
ENE	823.	4.22E-05
E	823.	4.22E-05

ESE	823.	4.22E-05
SE	823.	4.22E-05
SSE	823.	5.30E-05

NOTE: VALUES ON THIS PAGE ARE APPROXIMATIONS ONLY.
CHECK THE REASONABLENESS OF THE ENVELOPES
COMPUTED FOR THE 0-2 HOUR VALUES. FOR ANY
FAULTY ENVELOPES, ADJUST THE ABOVE VALUES.

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE S SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 152.4 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	3.7	0.23	7300.	55.	97.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	8.451E-08
A	9.2	0.08	7300.	55.	97.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	3.426E-08
A	12.0	0.08	7300.	55.	97.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	2.641E-08
B	3.7	0.49	7300.	55.	97.	848.1	962.0	0.0	0.000E+00	0.000E+00	1.035E-07
B	6.2	0.15	7300.	55.	97.	848.1	962.0	0.0	0.000E+00	0.000E+00	6.212E-08
B	9.2	0.38	7300.	55.	97.	848.1	962.0	0.0	0.000E+00	0.000E+00	4.197E-08
B	12.0	0.04	7300.	55.	97.	848.1	962.0	0.0	0.000E+00	0.000E+00	3.235E-08
C	3.7	1.16	7300.	55.	97.	644.0	373.7	0.0	0.000E+00	0.000E+00	3.410E-07
C	6.2	1.58	7300.	55.	97.	644.0	373.7	0.0	0.000E+00	0.000E+00	2.046E-07
C	9.2	0.68	7300.	55.	97.	644.0	373.7	0.0	0.000E+00	0.000E+00	1.382E-07
C	12.0	0.15	7300.	55.	97.	644.0	373.7	0.0	0.000E+00	0.000E+00	1.066E-07
C	27.5	0.04	7300.	55.	97.	644.0	373.7	0.0	0.000E+00	0.000E+00	4.650E-08
D	0.2	0.01	7300.	55.	97.	453.5	111.1	0.0	0.000E+00	0.000E+00	1.721E-05
D	1.7	2.22	7300.	55.	97.	453.5	111.1	0.0	0.000E+00	0.000E+00	2.459E-06
D	3.7	12.39	7300.	55.	97.	453.5	111.1	0.0	0.000E+00	0.000E+00	1.147E-06
D	6.2	19.57	7300.	55.	97.	453.5	111.1	0.0	0.000E+00	0.000E+00	6.885E-07
D	9.2	14.87	7300.	55.	97.	453.5	111.1	0.0	0.000E+00	0.000E+00	4.652E-07
D	12.0	2.74	7300.	55.	97.	453.5	111.1	0.0	0.000E+00	0.000E+00	3.586E-07
D	27.5	0.56	7300.	55.	97.	453.5	111.1	0.0	0.000E+00	0.000E+00	1.565E-07
E	0.3	0.02	7300.	55.	97.	322.5	67.5	0.0	0.000E+00	0.000E+00	1.847E-05
E	2.0	2.25	7300.	55.	97.	322.5	67.5	0.0	0.000E+00	0.000E+00	2.638E-06
E	4.2	8.83	7300.	55.	97.	322.5	67.5	0.0	0.000E+00	0.000E+00	1.231E-06
E	7.0	13.78	7300.	55.	97.	322.5	67.5	0.0	0.000E+00	0.000E+00	7.387E-07
E	10.3	5.86	7300.	55.	97.	322.5	67.5	0.0	0.000E+00	0.000E+00	4.991E-07
E	13.4	0.86	7300.	55.	97.	322.5	67.5	0.0	0.000E+00	0.000E+00	3.847E-07
E	30.7	0.26	7300.	55.	97.	322.5	67.5	0.0	0.000E+00	0.000E+00	1.679E-07
F	0.3	0.01	10000.	55.	97.	295.8	46.1	0.0	0.000E+00	0.000E+00	8.984E-06
F	2.0	0.98	10000.	55.	97.	295.8	46.1	0.0	0.000E+00	0.000E+00	1.283E-06
F	4.2	3.72	10000.	55.	97.	295.8	46.1	0.0	0.000E+00	0.000E+00	5.990E-07
F	7.0	3.04	10000.	55.	97.	295.8	46.1	0.0	0.000E+00	0.000E+00	3.594E-07
F	10.3	0.15	10000.	55.	97.	295.8	46.1	0.0	0.000E+00	0.000E+00	2.428E-07
F	13.4	0.04	10000.	55.	97.	295.8	46.1	0.0	0.000E+00	0.000E+00	1.872E-07
G	2.0	0.41	90000.	55.	97.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.762E-07

G	4.2	1.77	90000.	55.	97.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.755E-07
G	7.0	0.60	90000.	55.	97.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.053E-07
G	10.3	0.04	90000.	55.	97.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.117E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

S SECTOR BOUNDARY DISTANCE = 7300.0 METERS
BUILDING WAKE CREDIT IS NOT INCLUDED.
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.847E-05	1.721E-05	8.984E-06	2.638E-06	2.459E-06	1.283E-06	1.231E-06	1.147E-06	7.387E-07	6.885E-07
0.016	0.021	0.032	2.286	4.501	5.478	14.303	26.695	40.478	60.043
0.00100	0.00131	0.00201	0.14196	0.27958	0.34022	0.88837	1.65810	2.51414	3.72938
5.990E-07	4.991E-07	4.652E-07	3.847E-07	3.762E-07	3.594E-07	3.586E-07	3.410E-07	2.428E-07	2.046E-07
63.761	69.619	84.490	85.354	85.767	88.809	91.550	92.715	92.865	94.442
3.96030	4.32418	5.24786	5.30150	5.32716	5.51610	5.68637	5.75868	5.76801	5.86597
1.872E-07	1.755E-07	1.679E-07	1.565E-07	1.382E-07	1.066E-07	1.053E-07	1.035E-07	8.451E-08	7.117E-08
94.480	96.245	96.507	97.071	97.747	97.897	98.498	98.986	99.211	99.249
5.86831	5.97793	5.99426	6.02925	6.07124	6.08057	6.11789	6.14821	6.16220	6.16454
6.212E-08	4.650E-08	4.197E-08	3.426E-08	3.235E-08	2.641E-08				
99.399	99.437	99.812	99.887	99.925	100.000				
6.17387	6.17620	6.19952	6.20419	6.20652	6.21119				

BELOW IS PRINTED THE MAXIMUM VALUE OF CHI/Q AND THE DISTANCE IN METERS FROM THE STACK AT WHICH THE VALUE OCCURRED.
THIS DISTANCE MAY BE WITHIN THE SITE BOUNDARY.

CHI/Q = 2.309E-05 DISTANCE = 4000.000

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 0.001
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 1.656

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HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 4)=   3.726
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 5)=   5.244
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 6)=   5.683
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 7)=   5.755
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 8)=   6.025
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 9)=   6.067

  K  I   XQSAVE(K,I)  XQINT(K,I) XQSLOP(K,I)
  1  1     -10.89955 -15.82119  -1.15376
  1  2     -10.96991 -16.45962  -1.30560
  1  3     -13.67796 -16.81287  -1.47140
  1  4     -14.18878 -18.51104  -2.42362
  1  5     -14.58082 -25.22925  -6.56649
  1  6     -14.84111 -27.47623  -7.98684
  1  7     -14.89145 -68.14889 -33.79942
  1  8     -15.67039 -70.59866 -35.37723
  1  9     -15.79431     NUMXQ(K)=  9
    4.816E-06              0.062              1.000
    3.137E-06              0.186              3.000
    2.532E-06              0.311              5.000
    1.860E-06              0.621             10.000
    1.535E-06              0.932             15.000
    1.331E-06              1.242             20.000
    1.187E-06              1.553             25.000
    1.070E-06              1.863             30.000
    9.745E-07              2.174             35.000
    8.968E-07              2.484             40.000
    8.322E-07              2.795             45.000
    7.774E-07              3.106             50.000
    7.301E-07              3.416             55.000
    6.888E-07              3.727             60.000
    6.300E-07              4.037             65.000
    5.792E-07              4.348             70.000
    5.350E-07              4.658             75.000
    4.962E-07              4.969             80.000
    4.563E-07              5.280             85.000
    3.791E-07              5.590             90.000

    2.053E-06              0.5                8.05

ANNUAL AVERAGE =   2.22E-08

K=  1     FIVEXQ(K)= 2.053E-06     FIVEPR(K)= 8.050

FUMIGATION X/Q AT THE BOUNDARY:   9.20E-06

 EXPONENTIAL TERM AND FREQUENCIES

   9.953E-01   9.949E-01   9.666E-01   6.810E-01   3.527E-01   1.076E-01   1.064E-01
       0.376       1.427       5.032      57.387      89.248      97.183     100.000
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE SSW SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 152.4 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	3.7	0.60	7300.	61.	91.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	8.455E-08
A	6.2	0.60	7300.	61.	91.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	5.073E-08
A	9.2	0.26	7300.	61.	91.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	3.428E-08
A	12.0	0.13	7300.	61.	91.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	2.642E-08
B	1.7	0.13	7300.	61.	91.	848.1	962.0	0.0	0.000E+00	0.000E+00	2.220E-07
B	3.7	1.52	7300.	61.	91.	848.1	962.0	0.0	0.000E+00	0.000E+00	1.036E-07
B	6.2	0.99	7300.	61.	91.	848.1	962.0	0.0	0.000E+00	0.000E+00	6.216E-08
B	9.2	0.20	7300.	61.	91.	848.1	962.0	0.0	0.000E+00	0.000E+00	4.200E-08
B	12.0	0.13	7300.	61.	91.	848.1	962.0	0.0	0.000E+00	0.000E+00	3.237E-08
C	1.7	0.33	7300.	61.	91.	644.0	373.7	0.0	0.000E+00	0.000E+00	7.336E-07
C	3.7	1.46	7300.	61.	91.	644.0	373.7	0.0	0.000E+00	0.000E+00	3.424E-07
C	6.2	1.26	7300.	61.	91.	644.0	373.7	0.0	0.000E+00	0.000E+00	2.054E-07
C	9.2	0.53	7300.	61.	91.	644.0	373.7	0.0	0.000E+00	0.000E+00	1.388E-07
C	12.0	0.07	7300.	61.	91.	644.0	373.7	0.0	0.000E+00	0.000E+00	1.070E-07
C	27.5	0.26	7300.	61.	91.	644.0	373.7	0.0	0.000E+00	0.000E+00	4.669E-08
D	0.2	0.01	7300.	61.	91.	453.5	111.1	0.0	0.000E+00	0.000E+00	1.802E-05
D	1.7	3.84	7300.	61.	91.	453.5	111.1	0.0	0.000E+00	0.000E+00	2.574E-06
D	3.7	13.96	7300.	61.	91.	453.5	111.1	0.0	0.000E+00	0.000E+00	1.201E-06
D	6.2	23.09	7300.	61.	91.	453.5	111.1	0.0	0.000E+00	0.000E+00	7.208E-07
D	9.2	10.19	7300.	61.	91.	453.5	111.1	0.0	0.000E+00	0.000E+00	4.870E-07
D	12.0	1.79	7300.	61.	91.	453.5	111.1	0.0	0.000E+00	0.000E+00	3.754E-07
D	27.5	0.46	7300.	61.	91.	453.5	111.1	0.0	0.000E+00	0.000E+00	1.638E-07
E	0.3	0.02	7300.	61.	91.	322.5	67.5	0.0	0.000E+00	0.000E+00	2.091E-05
E	2.0	2.91	7300.	61.	91.	322.5	67.5	0.0	0.000E+00	0.000E+00	2.988E-06
E	4.2	10.85	7300.	61.	91.	322.5	67.5	0.0	0.000E+00	0.000E+00	1.394E-06
E	7.0	13.30	7300.	61.	91.	322.5	67.5	0.0	0.000E+00	0.000E+00	8.365E-07
E	10.3	2.51	7300.	61.	91.	322.5	67.5	0.0	0.000E+00	0.000E+00	5.652E-07
E	13.4	0.53	7300.	61.	91.	322.5	67.5	0.0	0.000E+00	0.000E+00	4.357E-07
E	30.7	0.07	7300.	61.	91.	322.5	67.5	0.0	0.000E+00	0.000E+00	1.901E-07
F	0.3	0.01	10000.	61.	91.	295.8	46.1	0.0	0.000E+00	0.000E+00	1.172E-05
F	2.0	1.26	10000.	61.	91.	295.8	46.1	0.0	0.000E+00	0.000E+00	1.675E-06
F	4.2	2.51	10000.	61.	91.	295.8	46.1	0.0	0.000E+00	0.000E+00	7.816E-07
F	7.0	1.65	10000.	61.	91.	295.8	46.1	0.0	0.000E+00	0.000E+00	4.690E-07
F	10.3	0.07	10000.	61.	91.	295.8	46.1	0.0	0.000E+00	0.000E+00	3.169E-07

G	2.0	0.93	90000.	61.	91.	1000.0	46.0	0.0	0.000E+00	0.000E+00	4.916E-07
G	4.2	1.26	90000.	61.	91.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.294E-07
G	7.0	0.33	90000.	61.	91.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.376E-07

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

SSW SECTOR BOUNDARY DISTANCE = 7300.0 METERS
BUILDING WAKE CREDIT IS NOT INCLUDED.
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

2.091E-05	1.802E-05	1.172E-05	2.988E-06	2.574E-06	1.675E-06	1.394E-06	1.201E-06	8.365E-07	7.816E-07
0.021	0.029	0.044	2.955	6.791	8.048	18.897	32.855	46.152	48.666
0.00073	0.00104	0.00155	0.10418	0.23947	0.28378	0.66632	1.15848	1.62732	1.71595
7.336E-07	7.208E-07	5.652E-07	4.916E-07	4.870E-07	4.690E-07	4.357E-07	3.754E-07	3.424E-07	3.169E-07
48.997	72.084	74.598	75.524	85.711	87.365	87.894	89.680	91.136	91.202
1.72762	2.54167	2.63030	2.66296	3.02217	3.08048	3.09914	3.16212	3.21343	3.21577
2.294E-07	2.220E-07	2.054E-07	1.901E-07	1.638E-07	1.388E-07	1.376E-07	1.070E-07	1.036E-07	8.455E-08
92.459	92.591	93.848	93.914	94.377	94.906	95.237	95.303	96.825	97.420
3.26008	3.26475	3.30907	3.31140	3.32773	3.34639	3.35805	3.36038	3.41403	3.43502
6.216E-08	5.073E-08	4.669E-08	4.200E-08	3.428E-08	3.237E-08	2.642E-08			
98.412	99.008	99.272	99.471	99.735	99.868	100.000			
3.47001	3.49100	3.50033	3.50733	3.51666	3.52133	3.52599			

BELOW IS PRINTED THE MAXIMUM VALUE OF CHI/Q AND THE DISTANCE IN METERS FROM THE STACK AT WHICH THE VALUE OCCURRED.
THIS DISTANCE MAY BE WITHIN THE SITE BOUNDARY.

CHI/Q = 2.167E-05 DISTANCE = 5000.000

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED

CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 0.239
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 1.157

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HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 4)=   2.539
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 5)=   3.078
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 6)=   3.210
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 7)=   3.306
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 K  I   XQSAVE(K,I)  XQINT(K,I) XQSLOP(K,I)
 2  1     -10.77512 -16.77557  -1.38437
 2  2     -12.86995 -16.77819  -1.38530
 2  3     -13.63209 -17.28309  -1.60761
 2  4     -14.14291 -24.16113  -5.12883
 2  5     -14.57272 -45.88583 -16.74935
 2  6     -14.88739 -86.94085 -38.93256
 2  7     -15.39822     NUMXQ(K)=  7
   5.640E-06              0.035              1.000
   3.652E-06              0.106              3.000
   2.944E-06              0.176              5.000
   2.161E-06              0.353             10.000
   1.785E-06              0.529             15.000
   1.550E-06              0.705             20.000
   1.385E-06              0.881             25.000
   1.260E-06              1.058             30.000
   1.155E-06              1.234             35.000
   1.063E-06              1.410             40.000
   9.860E-07              1.587             45.000
   9.210E-07              1.763             50.000
   8.652E-07              1.939             55.000
   8.165E-07              2.116             60.000
   7.736E-07              2.292             65.000
   7.355E-07              2.468             70.000
   6.604E-07              2.644             75.000
   5.720E-07              2.821             80.000
   4.991E-07              2.997             85.000
   3.760E-07              3.173             90.000

   1.833E-06              0.5               14.18

ANNUAL AVERAGE =   1.57E-08

K=  2     FIVEXQ(K)= 1.833E-06     FIVEPR(K)=14.180

FUMIGATION X/Q AT THE BOUNDARY:   9.80E-06

 EXPONENTIAL TERM AND FREQUENCIES

  9.958E-01   9.955E-01   9.705E-01   7.130E-01   3.995E-01   1.404E-01   1.390E-01
      1.588       4.565       8.467      61.795      91.981      97.486     100.000
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE SW SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 152.4 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	3.7	1.73	7300.	128.	24.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	8.488E-08
A	6.2	1.50	7300.	128.	24.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	5.093E-08
A	9.2	0.68	7300.	128.	24.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	3.441E-08
B	1.7	0.15	7300.	128.	24.	848.1	962.0	0.0	0.000E+00	0.000E+00	2.229E-07
B	3.7	1.35	7300.	128.	24.	848.1	962.0	0.0	0.000E+00	0.000E+00	1.040E-07
B	6.2	0.98	7300.	128.	24.	848.1	962.0	0.0	0.000E+00	0.000E+00	6.242E-08
B	9.2	0.15	7300.	128.	24.	848.1	962.0	0.0	0.000E+00	0.000E+00	4.217E-08
B	12.0	0.08	7300.	128.	24.	848.1	962.0	0.0	0.000E+00	0.000E+00	3.251E-08
C	1.7	0.90	7300.	128.	24.	644.0	373.7	0.0	0.000E+00	0.000E+00	7.543E-07
C	3.7	2.10	7300.	128.	24.	644.0	373.7	0.0	0.000E+00	0.000E+00	3.520E-07
C	6.2	0.68	7300.	128.	24.	644.0	373.7	0.0	0.000E+00	0.000E+00	2.112E-07
C	9.2	0.30	7300.	128.	24.	644.0	373.7	0.0	0.000E+00	0.000E+00	1.427E-07
D	0.2	0.02	7300.	128.	24.	453.5	111.1	0.0	0.000E+00	0.000E+00	2.467E-05
D	1.7	8.10	7300.	128.	24.	453.5	111.1	0.0	0.000E+00	0.000E+00	3.524E-06
D	3.7	17.86	7300.	128.	24.	453.5	111.1	0.0	0.000E+00	0.000E+00	1.645E-06
D	6.2	18.83	7300.	128.	24.	453.5	111.1	0.0	0.000E+00	0.000E+00	9.869E-07
D	9.2	6.38	7300.	128.	24.	453.5	111.1	0.0	0.000E+00	0.000E+00	6.668E-07
D	12.0	0.98	7300.	128.	24.	453.5	111.1	0.0	0.000E+00	0.000E+00	5.140E-07
D	27.5	0.90	7300.	128.	24.	453.5	111.1	0.0	0.000E+00	0.000E+00	2.243E-07
E	0.3	0.02	7300.	128.	24.	322.5	67.5	0.0	0.000E+00	0.000E+00	4.904E-05
E	2.0	2.70	7300.	128.	24.	322.5	67.5	0.0	0.000E+00	0.000E+00	7.006E-06
E	4.2	11.25	7300.	128.	24.	322.5	67.5	0.0	0.000E+00	0.000E+00	3.269E-06
E	7.0	11.71	7300.	128.	24.	322.5	67.5	0.0	0.000E+00	0.000E+00	1.962E-06
E	10.3	1.95	7300.	128.	24.	322.5	67.5	0.0	0.000E+00	0.000E+00	1.325E-06
E	13.4	0.60	7300.	128.	24.	322.5	67.5	0.0	0.000E+00	0.000E+00	1.022E-06
E	30.7	0.08	7300.	128.	24.	322.5	67.5	0.0	0.000E+00	0.000E+00	4.458E-07
F	0.3	0.02	7300.	128.	24.	222.6	40.9	0.0	0.000E+00	0.000E+00	1.047E-04
F	2.0	1.65	7300.	128.	24.	222.6	40.9	0.0	0.000E+00	0.000E+00	1.496E-05
F	4.2	2.55	7300.	128.	24.	222.6	40.9	0.0	0.000E+00	0.000E+00	6.980E-06
F	7.0	0.98	7300.	128.	24.	222.6	40.9	0.0	0.000E+00	0.000E+00	4.188E-06
F	10.3	0.08	7300.	128.	24.	222.6	40.9	0.0	0.000E+00	0.000E+00	2.830E-06
G	2.0	0.83	7300.	128.	24.	153.6	24.8	0.0	0.000E+00	0.000E+00	2.632E-05
G	4.2	1.65	7300.	128.	24.	153.6	24.8	0.0	0.000E+00	0.000E+00	1.228E-05

G	7.0	0.30	7300.	128.	24.	153.6	24.8	0.0	0.000E+00	0.000E+00	7.370E-06

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

SW SECTOR BOUNDARY DISTANCE = 7300.0 METERS
BUILDING WAKE CREDIT IS NOT INCLUDED.
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.047E-04	4.904E-05	2.632E-05	2.467E-05	1.496E-05	1.228E-05	7.370E-06	7.006E-06	6.980E-06	4.188E-06
0.019	0.038	0.864	0.882	2.533	4.183	4.484	7.185	9.736	10.711
0.00059	0.00119	0.02685	0.02742	0.07873	0.13005	0.13938	0.22335	0.30265	0.33298
3.524E-06	3.269E-06	2.830E-06	1.962E-06	1.645E-06	1.325E-06	1.022E-06	9.869E-07	7.543E-07	6.668E-07
18.815	30.070	30.145	41.850	59.708	61.658	62.259	81.092	81.992	88.370
0.58489	0.93477	0.93710	1.30098	1.85612	1.91676	1.93542	2.52089	2.54888	2.74714
5.140E-07	4.458E-07	3.520E-07	2.243E-07	2.229E-07	2.112E-07	1.427E-07	1.040E-07	8.488E-08	6.242E-08
89.345	89.420	91.521	92.422	92.572	93.247	93.547	94.898	96.624	97.599
2.77746	2.77980	2.84511	2.87310	2.87776	2.89875	2.90808	2.95007	3.00372	3.03404
5.093E-08	4.217E-08	3.441E-08	3.251E-08						
99.100	99.250	99.925	100.000						
3.08069	3.08536	3.10635	3.10868						

BELOW IS PRINTED THE MAXIMUM VALUE OF CHI/Q AND THE DISTANCE IN METERS FROM THE STACK AT WHICH THE VALUE OCCURRED.
THIS DISTANCE MAY BE WITHIN THE SITE BOUNDARY.

CHI/Q = 1.047E-04 DISTANCE = 7300.000

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED

CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 0.027
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 0.130

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HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 4)=   0.934
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 5)=   1.854
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 6)=   2.518
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 7)=   2.744

  K  I   XQSAVE(K,I)  XQINT(K,I) XQSLOP(K,I)
  3  1      -9.16439 -15.74975  -1.50343
  3  2     -10.54519 -16.40644  -1.69313
  3  3     -11.30733 -17.35012  -2.00647
  3  4     -12.63094 -18.67963  -2.57174
  3  5     -13.31792 -21.63665  -3.99007
  3  6     -13.82874 -34.51833 -10.57300
  3  7     -14.22079     NUMXQ(K)=  7
    2.461E-05              0.031              1.000
    1.454E-05              0.093              3.000
    1.101E-05              0.155              5.000
    7.071E-06              0.311             10.000
    5.380E-06              0.466             15.000
    4.400E-06              0.622             20.000
    3.747E-06              0.777             25.000
    3.275E-06              0.933             30.000
    2.823E-06              1.088             35.000
    2.476E-06              1.243             40.000
    2.200E-06              1.399             45.000
    1.977E-06              1.554             50.000
    1.792E-06              1.710             55.000
    1.632E-06              1.865             60.000
    1.431E-06              2.021             65.000
    1.265E-06              2.176             70.000
    1.127E-06              2.332             75.000
    1.010E-06              2.487             80.000
    7.967E-07              2.642             85.000

    5.127E-06              0.5               16.08

ANNUAL AVERAGE =   3.32E-08

K=  3     FIVEXQ(K)= 5.127E-06     FIVEPR(K)=16.084

FUMIGATION X/Q AT THE BOUNDARY:   1.75E-05

 EXPONENTIAL TERM AND FREQUENCIES

   9.997E-01   9.997E-01   9.979E-01   9.762E-01   9.367E-01   8.371E-01   6.165E-01
       3.902       6.603      10.580      63.646      91.952      97.224     100.000
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE WSW SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 152.4 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	3.7	2.58	7300.	104.	48.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	8.481E-08
A	6.2	1.92	7300.	104.	48.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	5.088E-08
A	9.2	1.19	7300.	104.	48.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	3.438E-08
A	12.0	0.07	7300.	104.	48.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	2.650E-08
B	1.7	0.59	7300.	104.	48.	848.1	962.0	0.0	0.000E+00	0.000E+00	2.227E-07
B	3.7	1.65	7300.	104.	48.	848.1	962.0	0.0	0.000E+00	0.000E+00	1.039E-07
B	6.2	0.99	7300.	104.	48.	848.1	962.0	0.0	0.000E+00	0.000E+00	6.236E-08
B	9.2	0.07	7300.	104.	48.	848.1	962.0	0.0	0.000E+00	0.000E+00	4.213E-08
C	1.7	0.99	7300.	104.	48.	644.0	373.7	0.0	0.000E+00	0.000E+00	7.496E-07
C	3.7	2.44	7300.	104.	48.	644.0	373.7	0.0	0.000E+00	0.000E+00	3.498E-07
C	6.2	1.12	7300.	104.	48.	644.0	373.7	0.0	0.000E+00	0.000E+00	2.099E-07
C	9.2	0.20	7300.	104.	48.	644.0	373.7	0.0	0.000E+00	0.000E+00	1.418E-07
D	0.2	0.02	7300.	104.	48.	453.5	111.1	0.0	0.000E+00	0.000E+00	2.299E-05
D	1.7	7.86	7300.	104.	48.	453.5	111.1	0.0	0.000E+00	0.000E+00	3.284E-06
D	3.7	22.19	7300.	104.	48.	453.5	111.1	0.0	0.000E+00	0.000E+00	1.532E-06
D	6.2	18.36	7300.	104.	48.	453.5	111.1	0.0	0.000E+00	0.000E+00	9.194E-07
D	9.2	4.43	7300.	104.	48.	453.5	111.1	0.0	0.000E+00	0.000E+00	6.212E-07
D	12.0	0.73	7300.	104.	48.	453.5	111.1	0.0	0.000E+00	0.000E+00	4.789E-07
D	27.5	0.13	7300.	104.	48.	453.5	111.1	0.0	0.000E+00	0.000E+00	2.090E-07
E	0.3	0.03	7300.	104.	48.	322.5	67.5	0.0	0.000E+00	0.000E+00	4.048E-05
E	2.0	4.03	7300.	104.	48.	322.5	67.5	0.0	0.000E+00	0.000E+00	5.782E-06
E	4.2	14.46	7300.	104.	48.	322.5	67.5	0.0	0.000E+00	0.000E+00	2.698E-06
E	7.0	6.67	7300.	104.	48.	322.5	67.5	0.0	0.000E+00	0.000E+00	1.619E-06
E	10.3	0.73	7300.	104.	48.	322.5	67.5	0.0	0.000E+00	0.000E+00	1.094E-06
E	13.4	0.26	7300.	104.	48.	322.5	67.5	0.0	0.000E+00	0.000E+00	8.432E-07
E	30.7	0.07	7300.	104.	48.	322.5	67.5	0.0	0.000E+00	0.000E+00	3.680E-07
F	0.3	0.02	7300.	104.	48.	222.6	40.9	0.0	0.000E+00	0.000E+00	6.213E-05
F	2.0	1.72	7300.	104.	48.	222.6	40.9	0.0	0.000E+00	0.000E+00	8.875E-06
F	4.2	1.92	7300.	104.	48.	222.6	40.9	0.0	0.000E+00	0.000E+00	4.142E-06
F	7.0	0.53	7300.	104.	48.	222.6	40.9	0.0	0.000E+00	0.000E+00	2.485E-06
G	2.0	0.66	7300.	104.	48.	153.6	24.8	0.0	0.000E+00	0.000E+00	6.365E-06
G	4.2	1.25	7300.	104.	48.	153.6	24.8	0.0	0.000E+00	0.000E+00	2.970E-06
G	7.0	0.13	7300.	104.	48.	153.6	24.8	0.0	0.000E+00	0.000E+00	1.782E-06

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

WSW SECTOR BOUNDARY DISTANCE = 7300.0 METERS
BUILDING WAKE CREDIT IS NOT INCLUDED.
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

6.213E-05	4.048E-05	2.299E-05	8.875E-06	6.365E-06	5.782E-06	4.142E-06	3.284E-06	2.970E-06	2.698E-06
0.020	0.049	0.066	1.784	2.444	6.473	8.389	16.249	17.503	31.968
0.00070	0.00171	0.00234	0.06299	0.08631	0.22859	0.29624	0.57381	0.61813	1.12895
2.485E-06	1.782E-06	1.619E-06	1.532E-06	1.094E-06	9.194E-07	8.432E-07	7.496E-07	6.212E-07	4.789E-07
32.497	32.629	39.300	61.493	62.219	80.581	80.845	81.836	86.262	86.988
1.14761	1.15227	1.38786	2.17159	2.19725	2.84569	2.85502	2.89000	3.04628	3.07194
3.680E-07	3.498E-07	2.227E-07	2.099E-07	2.090E-07	1.418E-07	1.039E-07	8.481E-08	6.236E-08	5.088E-08
87.054	89.498	90.092	91.215	91.347	91.546	93.197	95.773	96.764	98.679
3.07427	3.16058	3.18157	3.22122	3.22589	3.23289	3.29120	3.38217	3.41716	3.48480
4.213E-08	3.438E-08	2.650E-08							
98.745	99.934	100.000							
3.48713	3.52912	3.53145							

BELOW IS PRINTED THE MAXIMUM VALUE OF CHI/Q AND THE DISTANCE IN METERS FROM THE STACK AT WHICH THE VALUE OCCURRED.
THIS DISTANCE MAY BE WITHIN THE SITE BOUNDARY.

CHI/Q = 6.213E-05 DISTANCE = 7300.000

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 1.128
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 2.169

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HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 4)=   2.843
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 5)=   3.043
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 6)=   3.158

  K  I   XQSAVE(K,I)  XQINT(K,I) XQSLOP(K,I)
  4  1      -9.68635 -16.29107  -1.52053
  4  2     -12.82285 -17.76848  -2.16825
  4  3     -13.38867 -22.31663  -4.41985
  4  4     -13.89949 -38.83336 -13.09280
  4  5     -14.29154 -80.18877 -35.15546
  4  6     -14.86587     NUMXQ(K)=  6
    1.451E-05              0.035              1.000
    9.003E-06              0.106              3.000
    7.104E-06              0.177              5.000
    5.059E-06              0.353             10.000
    4.101E-06              0.530             15.000
    3.513E-06              0.706             20.000
    3.105E-06              0.883             25.000
    2.799E-06              1.059             30.000
    2.503E-06              1.236             35.000
    2.236E-06              1.413             40.000
    2.021E-06              1.589             45.000
    1.843E-06              1.766             50.000
    1.694E-06              1.942             55.000
    1.567E-06              2.119             60.000
    1.382E-06              2.295             65.000
    1.203E-06              2.472             70.000
    1.055E-06              2.649             75.000
    9.324E-07              2.825             80.000
    6.765E-07              3.002             85.000

    4.228E-06              0.5               14.16

ANNUAL AVERAGE =   3.18E-08

K=  4     FIVEXQ(K)= 4.228E-06     FIVEPR(K)=14.158

FUMIGATION X/Q AT THE BOUNDARY:   1.75E-05

 EXPONENTIAL TERM AND FREQUENCIES

   9.988E-01   9.987E-01   9.916E-01   9.095E-01   7.731E-01   4.967E-01   1.491E-01
       5.746       9.049      13.804      67.521      93.771      97.952     100.000
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE W SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 152.4 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.7	0.15	7300.	73.	79.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	1.814E-07
A	3.7	4.26	7300.	73.	79.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	8.464E-08
A	6.2	2.25	7300.	73.	79.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	5.078E-08
A	9.2	0.34	7300.	73.	79.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	3.431E-08
B	1.7	0.24	7300.	73.	79.	848.1	962.0	0.0	0.000E+00	0.000E+00	2.222E-07
B	3.7	2.74	7300.	73.	79.	848.1	962.0	0.0	0.000E+00	0.000E+00	1.037E-07
B	6.2	0.59	7300.	73.	79.	848.1	962.0	0.0	0.000E+00	0.000E+00	6.223E-08
B	9.2	0.05	7300.	73.	79.	848.1	962.0	0.0	0.000E+00	0.000E+00	4.204E-08
C	1.7	0.05	7300.	73.	79.	644.0	373.7	0.0	0.000E+00	0.000E+00	7.390E-07
C	3.7	2.45	7300.	73.	79.	644.0	373.7	0.0	0.000E+00	0.000E+00	3.449E-07
C	6.2	0.68	7300.	73.	79.	644.0	373.7	0.0	0.000E+00	0.000E+00	2.069E-07
C	9.2	0.15	7300.	73.	79.	644.0	373.7	0.0	0.000E+00	0.000E+00	1.398E-07
C	12.0	0.05	7300.	73.	79.	644.0	373.7	0.0	0.000E+00	0.000E+00	1.078E-07
D	0.2	0.01	7300.	73.	79.	453.5	111.1	0.0	0.000E+00	0.000E+00	1.958E-05
D	1.7	5.63	7300.	73.	79.	453.5	111.1	0.0	0.000E+00	0.000E+00	2.797E-06
D	3.7	21.28	7300.	73.	79.	453.5	111.1	0.0	0.000E+00	0.000E+00	1.305E-06
D	6.2	16.19	7300.	73.	79.	453.5	111.1	0.0	0.000E+00	0.000E+00	7.832E-07
D	9.2	6.46	7300.	73.	79.	453.5	111.1	0.0	0.000E+00	0.000E+00	5.292E-07
D	12.0	1.57	7300.	73.	79.	453.5	111.1	0.0	0.000E+00	0.000E+00	4.079E-07
D	27.5	0.39	7300.	73.	79.	453.5	111.1	0.0	0.000E+00	0.000E+00	1.780E-07
E	0.3	0.02	7300.	73.	79.	322.5	67.5	0.0	0.000E+00	0.000E+00	2.619E-05
E	2.0	2.94	7300.	73.	79.	322.5	67.5	0.0	0.000E+00	0.000E+00	3.742E-06
E	4.2	13.85	7300.	73.	79.	322.5	67.5	0.0	0.000E+00	0.000E+00	1.746E-06
E	7.0	7.88	7300.	73.	79.	322.5	67.5	0.0	0.000E+00	0.000E+00	1.048E-06
E	10.3	2.84	7300.	73.	79.	322.5	67.5	0.0	0.000E+00	0.000E+00	7.079E-07
E	13.4	0.59	7300.	73.	79.	322.5	67.5	0.0	0.000E+00	0.000E+00	5.457E-07
E	30.7	0.98	7300.	73.	79.	322.5	67.5	0.0	0.000E+00	0.000E+00	2.381E-07
F	0.3	0.02	8000.	73.	79.	241.8	42.4	0.0	0.000E+00	0.000E+00	1.924E-05
F	2.0	1.52	8000.	73.	79.	241.8	42.4	0.0	0.000E+00	0.000E+00	2.749E-06
F	4.2	1.66	8000.	73.	79.	241.8	42.4	0.0	0.000E+00	0.000E+00	1.283E-06
F	7.0	0.64	8000.	73.	79.	241.8	42.4	0.0	0.000E+00	0.000E+00	7.696E-07
F	30.7	0.20	8000.	73.	79.	241.8	42.4	0.0	0.000E+00	0.000E+00	1.749E-07
G	2.0	0.64	90000.	73.	79.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.977E-07

G	4.2	0.64	90000.	73.	79.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.723E-07
G	7.0	0.10	90000.	73.	79.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.234E-07

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

W SECTOR BOUNDARY DISTANCE = 7300.0 METERS
BUILDING WAKE CREDIT IS NOT INCLUDED.
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

2.619E-05	1.958E-05	1.924E-05	3.742E-06	2.797E-06	2.749E-06	1.746E-06	1.305E-06	1.283E-06	1.048E-06
0.021	0.034	0.051	2.986	8.613	10.129	23.974	45.256	46.919	54.796
0.00100	0.00160	0.00244	0.14239	0.41063	0.48294	1.14304	2.15769	2.23700	2.61253
7.977E-07	7.832E-07	7.696E-07	7.390E-07	7.079E-07	5.457E-07	5.292E-07	4.079E-07	3.723E-07	3.449E-07
55.431	71.625	72.261	72.310	75.147	75.734	82.192	83.758	84.394	86.840
2.64285	3.41492	3.44524	3.44758	3.58286	3.61085	3.91875	3.99339	4.02371	4.14034
2.381E-07	2.234E-07	2.222E-07	2.069E-07	1.814E-07	1.780E-07	1.749E-07	1.398E-07	1.078E-07	1.037E-07
87.818	87.916	88.161	88.846	88.992	89.384	89.579	89.726	89.775	92.515
4.18699	4.19165	4.20331	4.23597	4.24297	4.26163	4.27096	4.27795	4.28029	4.41091
8.464E-08	6.223E-08	5.078E-08	4.204E-08	3.431E-08					
96.771	97.358	99.609	99.658	100.000					
4.61384	4.64183	4.74912	4.75146	4.76778					

BELOW IS PRINTED THE MAXIMUM VALUE OF CHI/Q AND THE DISTANCE IN METERS FROM THE STACK AT WHICH THE VALUE OCCURRED.
THIS DISTANCE MAY BE WITHIN THE SITE BOUNDARY.

CHI/Q = 2.689E-05 DISTANCE = 4000.000

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 2.235
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 3.412

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HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 4)=   3.442
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 5)=   3.580
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 6)=   3.915
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 7)=   4.137
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 8)=   4.610

  K  I   XQSAVE(K,I)  XQINT(K,I) XQSLOP(K,I)
  5  1     -10.54998 -16.24821  -1.33582
  5  2     -13.56652 -18.94721  -2.68026
  5  3     -14.05992 -22.02190  -4.36646
  5  4     -14.07734 -22.63882  -4.70553
  5  5     -14.16090 -26.91823  -7.08075
  5  6     -14.45196 -43.92416 -16.73999
  5  7     -14.88005 -62.54497 -27.47235
  5  8     -16.28485     NUMXQ(K)=  8
    7.250E-06              0.048              1.000
    4.719E-06              0.143              3.000
    3.811E-06              0.238              5.000
    2.803E-06              0.477             10.000
    2.316E-06              0.715             15.000
    2.012E-06              0.954             20.000
    1.798E-06              1.192             25.000
    1.635E-06              1.430             30.000
    1.507E-06              1.669             35.000
    1.401E-06              1.907             40.000
    1.313E-06              2.146             45.000
    1.194E-06              2.384             50.000
    1.070E-06              2.622             55.000
    9.670E-07              2.861             60.000
    8.798E-07              3.099             65.000
    8.052E-07              3.337             70.000
    7.109E-07              3.576             75.000
    5.780E-07              3.814             80.000
    4.076E-07              4.053             85.000
    2.176E-07              4.291             90.000

    2.742E-06              0.5               10.49

ANNUAL AVERAGE =   2.73E-08

K=  5     FIVEXQ(K)= 2.742E-06     FIVEPR(K)=10.487

FUMIGATION X/Q AT THE BOUNDARY:   1.13E-05

 EXPONENTIAL TERM AND FREQUENCIES

   9.969E-01   9.966E-01   9.777E-01   7.747E-01   5.003E-01   2.255E-01   1.732E-01
       6.996      10.616      13.992      65.520      94.601      95.971     100.000
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE WNW SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 152.4 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	3.7	2.40	7300.	98.	54.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	8.478E-08
A	6.2	2.40	7300.	98.	54.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	5.087E-08
A	9.2	0.16	7300.	98.	54.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	3.437E-08
A	12.0	0.05	7300.	98.	54.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	2.649E-08
A	27.5	0.05	7300.	98.	54.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	1.156E-08
B	3.7	1.58	7300.	98.	54.	848.1	962.0	0.0	0.000E+00	0.000E+00	1.039E-07
B	6.2	1.36	7300.	98.	54.	848.1	962.0	0.0	0.000E+00	0.000E+00	6.234E-08
B	9.2	0.11	7300.	98.	54.	848.1	962.0	0.0	0.000E+00	0.000E+00	4.212E-08
B	12.0	0.05	7300.	98.	54.	848.1	962.0	0.0	0.000E+00	0.000E+00	3.247E-08
C	3.7	3.54	7300.	98.	54.	644.0	373.7	0.0	0.000E+00	0.000E+00	3.490E-07
C	6.2	1.42	7300.	98.	54.	644.0	373.7	0.0	0.000E+00	0.000E+00	2.094E-07
C	9.2	0.22	7300.	98.	54.	644.0	373.7	0.0	0.000E+00	0.000E+00	1.415E-07
C	12.0	0.11	7300.	98.	54.	644.0	373.7	0.0	0.000E+00	0.000E+00	1.091E-07
D	0.2	0.01	7300.	98.	54.	453.5	111.1	0.0	0.000E+00	0.000E+00	2.242E-05
D	1.7	4.69	7300.	98.	54.	453.5	111.1	0.0	0.000E+00	0.000E+00	3.203E-06
D	3.7	16.58	7300.	98.	54.	453.5	111.1	0.0	0.000E+00	0.000E+00	1.495E-06
D	6.2	16.79	7300.	98.	54.	453.5	111.1	0.0	0.000E+00	0.000E+00	8.968E-07
D	9.2	7.63	7300.	98.	54.	453.5	111.1	0.0	0.000E+00	0.000E+00	6.059E-07
D	12.0	1.42	7300.	98.	54.	453.5	111.1	0.0	0.000E+00	0.000E+00	4.671E-07
D	27.5	0.11	7300.	98.	54.	453.5	111.1	0.0	0.000E+00	0.000E+00	2.038E-07
E	0.3	0.02	7300.	98.	54.	322.5	67.5	0.0	0.000E+00	0.000E+00	3.782E-05
E	2.0	3.27	7300.	98.	54.	322.5	67.5	0.0	0.000E+00	0.000E+00	5.403E-06
E	4.2	10.91	7300.	98.	54.	322.5	67.5	0.0	0.000E+00	0.000E+00	2.522E-06
E	7.0	14.01	7300.	98.	54.	322.5	67.5	0.0	0.000E+00	0.000E+00	1.513E-06
E	10.3	3.44	7300.	98.	54.	322.5	67.5	0.0	0.000E+00	0.000E+00	1.022E-06
E	13.4	1.15	7300.	98.	54.	322.5	67.5	0.0	0.000E+00	0.000E+00	7.880E-07
E	30.7	0.22	7300.	98.	54.	322.5	67.5	0.0	0.000E+00	0.000E+00	3.439E-07
F	0.3	0.01	7300.	98.	54.	222.6	40.9	0.0	0.000E+00	0.000E+00	5.167E-05
F	2.0	1.25	7300.	98.	54.	222.6	40.9	0.0	0.000E+00	0.000E+00	7.382E-06
F	4.2	2.84	7300.	98.	54.	222.6	40.9	0.0	0.000E+00	0.000E+00	3.445E-06
F	7.0	1.31	7300.	98.	54.	222.6	40.9	0.0	0.000E+00	0.000E+00	2.067E-06
F	10.3	0.11	7300.	98.	54.	222.6	40.9	0.0	0.000E+00	0.000E+00	1.397E-06
F	30.7	0.05	7300.	98.	54.	222.6	40.9	0.0	0.000E+00	0.000E+00	4.697E-07

G	2.0	0.27	10000.	98.	54.	204.1	27.4	0.0	0.000E+00	0.000E+00	4.048E-06
G	4.2	0.33	10000.	98.	54.	204.1	27.4	0.0	0.000E+00	0.000E+00	1.889E-06
G	7.0	0.11	10000.	98.	54.	204.1	27.4	0.0	0.000E+00	0.000E+00	1.133E-06

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

WNW SECTOR BOUNDARY DISTANCE = 7300.0 METERS
BUILDING WAKE CREDIT IS NOT INCLUDED.
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

5.167E-05	3.782E-05	2.242E-05	7.382E-06	5.403E-06	4.048E-06	3.445E-06	3.203E-06	2.522E-06	2.067E-06
0.014	0.038	0.048	1.303	4.574	4.847	7.682	12.372	23.278	24.586
0.00062	0.00162	0.00207	0.05572	0.19567	0.20733	0.32862	0.52922	0.99572	1.05170
1.889E-06	1.513E-06	1.495E-06	1.397E-06	1.133E-06	1.022E-06	8.968E-07	7.880E-07	6.059E-07	4.697E-07
24.914	38.928	55.504	55.613	55.722	59.158	75.953	77.098	84.732	84.786
1.06570	1.66516	2.37425	2.37891	2.38358	2.53052	3.24894	3.29793	3.62448	3.62681
4.671E-07	3.490E-07	3.439E-07	2.094E-07	2.038E-07	1.415E-07	1.091E-07	1.039E-07	8.478E-08	6.234E-08
86.204	89.749	89.967	91.384	91.493	91.712	91.821	93.402	95.801	97.164
3.68746	3.83907	3.84840	3.90905	3.91371	3.92304	3.92771	3.99535	4.09798	4.15629
5.087E-08	4.212E-08	3.437E-08	3.247E-08	2.649E-08	1.156E-08				
99.564	99.673	99.836	99.891	99.945	100.000				
4.25893	4.26359	4.27059	4.27292	4.27525	4.27759				

BELOW IS PRINTED THE MAXIMUM VALUE OF CHI/Q AND THE DISTANCE IN METERS FROM THE STACK AT WHICH THE VALUE OCCURRED.
THIS DISTANCE MAY BE WITHIN THE SITE BOUNDARY.

CHI/Q = 5.167E-05 DISTANCE = 7300.000

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 0.002
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 0.995

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HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 4)=   2.372
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 5)=   3.246
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 6)=   3.621
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 7)=   3.845

  K  I   XQSAVE(K,I)  XQINT(K,I) XQSLOP(K,I)
  6  1      -9.87061 -16.24075  -1.45752
  6  2     -10.18256 -16.33973  -1.48133
  6  3     -12.89061 -16.41027  -1.51163
  6  4     -13.41364 -20.82871  -3.74048
  6  5     -13.92447 -28.57796  -7.93876
  6  6     -14.31651 -51.34930 -20.61463
  6  7     -14.88304     NUMXQ(K)=  7
    1.119E-05              0.043              1.000
    6.980E-06              0.128              3.000
    5.520E-06              0.214              5.000
    3.940E-06              0.428             10.000
    3.198E-06              0.642             15.000
    2.741E-06              0.856             20.000
    2.421E-06              1.069             25.000
    2.179E-06              1.283             30.000
    1.989E-06              1.497             35.000
    1.834E-06              1.711             40.000
    1.706E-06              1.925             45.000
    1.597E-06              2.139             50.000
    1.503E-06              2.353             55.000
    1.320E-06              2.567             60.000
    1.160E-06              2.780             65.000
    1.027E-06              2.994             70.000
    9.159E-07              3.208             75.000
    7.452E-07              3.422             80.000
    5.882E-07              3.636             85.000

    3.640E-06              0.5               11.69

ANNUAL AVERAGE =   3.07E-08

K=  6     FIVEXQ(K)= 3.640E-06     FIVEPR(K)=11.689

FUMIGATION X/Q AT THE BOUNDARY:   1.65E-05

 EXPONENTIAL TERM AND FREQUENCIES

   9.985E-01   9.984E-01   9.895E-01   8.871E-01   7.225E-01   4.131E-01   1.391E-01
       5.071       8.179      13.469      60.701      93.715      99.291     100.000
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE NW SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 152.4 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	3.7	0.17	7300.	104.	48.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	8.481E-08
A	6.2	0.87	7300.	104.	48.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	5.088E-08
A	9.2	0.56	7300.	104.	48.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	3.438E-08
B	1.7	0.09	7300.	104.	48.	848.1	962.0	0.0	0.000E+00	0.000E+00	2.227E-07
B	3.7	0.43	7300.	104.	48.	848.1	962.0	0.0	0.000E+00	0.000E+00	1.039E-07
B	6.2	1.17	7300.	104.	48.	848.1	962.0	0.0	0.000E+00	0.000E+00	6.236E-08
B	9.2	0.35	7300.	104.	48.	848.1	962.0	0.0	0.000E+00	0.000E+00	4.213E-08
B	12.0	0.04	7300.	104.	48.	848.1	962.0	0.0	0.000E+00	0.000E+00	3.248E-08
C	3.7	0.61	7300.	104.	48.	644.0	373.7	0.0	0.000E+00	0.000E+00	3.498E-07
C	6.2	2.69	7300.	104.	48.	644.0	373.7	0.0	0.000E+00	0.000E+00	2.099E-07
C	9.2	0.48	7300.	104.	48.	644.0	373.7	0.0	0.000E+00	0.000E+00	1.418E-07
D	0.2	0.00	7300.	104.	48.	453.5	111.1	0.0	0.000E+00	0.000E+00	2.299E-05
D	1.7	1.95	7300.	104.	48.	453.5	111.1	0.0	0.000E+00	0.000E+00	3.284E-06
D	3.7	14.72	7300.	104.	48.	453.5	111.1	0.0	0.000E+00	0.000E+00	1.532E-06
D	6.2	20.76	7300.	104.	48.	453.5	111.1	0.0	0.000E+00	0.000E+00	9.194E-07
D	9.2	6.99	7300.	104.	48.	453.5	111.1	0.0	0.000E+00	0.000E+00	6.212E-07
D	12.0	0.61	7300.	104.	48.	453.5	111.1	0.0	0.000E+00	0.000E+00	4.789E-07
D	27.5	0.30	7300.	104.	48.	453.5	111.1	0.0	0.000E+00	0.000E+00	2.090E-07
E	0.3	0.02	7300.	104.	48.	322.5	67.5	0.0	0.000E+00	0.000E+00	4.048E-05
E	2.0	2.65	7300.	104.	48.	322.5	67.5	0.0	0.000E+00	0.000E+00	5.782E-06
E	4.2	14.98	7300.	104.	48.	322.5	67.5	0.0	0.000E+00	0.000E+00	2.698E-06
E	7.0	15.16	7300.	104.	48.	322.5	67.5	0.0	0.000E+00	0.000E+00	1.619E-06
E	10.3	4.26	7300.	104.	48.	322.5	67.5	0.0	0.000E+00	0.000E+00	1.094E-06
E	13.4	0.69	7300.	104.	48.	322.5	67.5	0.0	0.000E+00	0.000E+00	8.432E-07
E	30.7	0.52	7300.	104.	48.	322.5	67.5	0.0	0.000E+00	0.000E+00	3.680E-07
F	0.3	0.01	7300.	104.	48.	222.6	40.9	0.0	0.000E+00	0.000E+00	6.213E-05
F	2.0	1.22	7300.	104.	48.	222.6	40.9	0.0	0.000E+00	0.000E+00	8.875E-06
F	4.2	3.52	7300.	104.	48.	222.6	40.9	0.0	0.000E+00	0.000E+00	4.142E-06
F	7.0	2.08	7300.	104.	48.	222.6	40.9	0.0	0.000E+00	0.000E+00	2.485E-06
F	10.3	0.30	7300.	104.	48.	222.6	40.9	0.0	0.000E+00	0.000E+00	1.679E-06
G	2.0	0.17	7300.	104.	48.	153.6	24.8	0.0	0.000E+00	0.000E+00	6.365E-06
G	4.2	1.22	7300.	104.	48.	153.6	24.8	0.0	0.000E+00	0.000E+00	2.970E-06
G	7.0	0.35	7300.	104.	48.	153.6	24.8	0.0	0.000E+00	0.000E+00	1.782E-06

G	10.3	0.04	7300.	104.	48.	153.6	24.8	0.0	0.000E+00	0.000E+00	1.204E-06

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

NW SECTOR BOUNDARY DISTANCE = 7300.0 METERS
BUILDING WAKE CREDIT IS NOT INCLUDED.
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

6.213E-05	4.048E-05	2.299E-05	8.875E-06	6.365E-06	5.782E-06	4.142E-06	3.284E-06	2.970E-06	2.698E-06
0.014	0.033	0.037	1.253	1.427	4.076	7.593	9.547	10.763	25.744
0.00075	0.00177	0.00200	0.06731	0.07664	0.21893	0.40786	0.51283	0.57814	1.38286
2.485E-06	1.782E-06	1.679E-06	1.619E-06	1.532E-06	1.204E-06	1.094E-06	9.194E-07	8.432E-07	6.212E-07
27.829	28.176	28.480	43.635	58.356	58.400	62.655	83.412	84.107	91.098
1.49482	1.51348	1.52981	2.34386	3.13458	3.13692	3.36550	4.48045	4.51777	4.89331
4.789E-07	3.680E-07	3.498E-07	2.227E-07	2.099E-07	2.090E-07	1.418E-07	1.039E-07	8.481E-08	6.236E-08
91.706	92.227	92.835	92.922	95.614	95.918	96.396	96.830	97.004	98.176
4.92596	4.95395	4.98661	4.99127	5.13589	5.15222	5.17788	5.20120	5.21053	5.27351
5.088E-08	4.213E-08	3.438E-08	3.248E-08						
99.045	99.392	99.957	100.000						
5.32016	5.33882	5.36914	5.37148						

BELOW IS PRINTED THE MAXIMUM VALUE OF CHI/Q AND THE DISTANCE IN METERS FROM THE STACK AT WHICH THE VALUE OCCURRED.
THIS DISTANCE MAY BE WITHIN THE SITE BOUNDARY.

CHI/Q = 6.213E-05 DISTANCE = 7300.000

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED

CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 1.381
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 3.132

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HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 4)=    4.477
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 5)=    4.890

  K  I   XQSAVE(K,I)  XQINT(K,I) XQSLOP(K,I)
  7  1      -9.68635 -16.07408  -1.47611
  7  2     -12.82285 -16.47997  -1.66039
  7  3     -13.38867 -19.18956  -3.11577
  7  4     -13.89949 -29.67638  -9.29234
  7  5     -14.29154     NUMXQ(K)=  5
    1.305E-05              0.054              1.000
    8.085E-06              0.161              3.000
    6.368E-06              0.269              5.000
    4.516E-06              0.537             10.000
    3.648E-06              0.806             15.000
    3.115E-06              1.074             20.000
    2.744E-06              1.343             25.000
    2.440E-06              1.611             30.000
    2.200E-06              1.880             35.000
    2.007E-06              2.149             40.000
    1.849E-06              2.417             45.000
    1.715E-06              2.686             50.000
    1.601E-06              2.954             55.000
    1.474E-06              3.223             60.000
    1.318E-06              3.491             65.000
    1.186E-06              3.760             70.000
    1.074E-06              4.029             75.000
    9.778E-07              4.297             80.000
    8.460E-07              4.566             85.000
    6.559E-07              4.834             90.000

    4.684E-06              0.5                9.31

ANNUAL AVERAGE =   3.95E-08

K=  7     FIVEXQ(K)= 4.684E-06     FIVEPR(K)= 9.308

FUMIGATION X/Q AT THE BOUNDARY:   1.75E-05

 EXPONENTIAL TERM AND FREQUENCIES

   9.988E-01   9.987E-01   9.916E-01   9.095E-01   7.731E-01   4.967E-01   1.491E-01
       1.607       3.691       7.469      52.808      91.084      98.220     100.000
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE NNW SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 152.4 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	3.7	0.09	7300.	85.	67.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	8.471E-08
A	6.2	0.09	7300.	85.	67.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	5.083E-08
B	3.7	0.14	7300.	85.	67.	848.1	962.0	0.0	0.000E+00	0.000E+00	1.038E-07
B	6.2	0.37	7300.	85.	67.	848.1	962.0	0.0	0.000E+00	0.000E+00	6.228E-08
B	9.2	0.37	7300.	85.	67.	848.1	962.0	0.0	0.000E+00	0.000E+00	4.208E-08
B	12.0	0.05	7300.	85.	67.	848.1	962.0	0.0	0.000E+00	0.000E+00	3.244E-08
C	3.7	0.55	7300.	85.	67.	644.0	373.7	0.0	0.000E+00	0.000E+00	3.471E-07
C	6.2	1.01	7300.	85.	67.	644.0	373.7	0.0	0.000E+00	0.000E+00	2.082E-07
C	9.2	0.46	7300.	85.	67.	644.0	373.7	0.0	0.000E+00	0.000E+00	1.407E-07
C	12.0	0.05	7300.	85.	67.	644.0	373.7	0.0	0.000E+00	0.000E+00	1.085E-07
D	0.2	0.00	7300.	85.	67.	453.5	111.1	0.0	0.000E+00	0.000E+00	2.103E-05
D	1.7	1.61	7300.	85.	67.	453.5	111.1	0.0	0.000E+00	0.000E+00	3.004E-06
D	3.7	11.17	7300.	85.	67.	453.5	111.1	0.0	0.000E+00	0.000E+00	1.402E-06
D	6.2	21.42	7300.	85.	67.	453.5	111.1	0.0	0.000E+00	0.000E+00	8.411E-07
D	9.2	5.42	7300.	85.	67.	453.5	111.1	0.0	0.000E+00	0.000E+00	5.683E-07
D	12.0	0.51	7300.	85.	67.	453.5	111.1	0.0	0.000E+00	0.000E+00	4.381E-07
D	27.5	0.32	7300.	85.	67.	453.5	111.1	0.0	0.000E+00	0.000E+00	1.912E-07
E	0.3	0.02	7300.	85.	67.	322.5	67.5	0.0	0.000E+00	0.000E+00	3.179E-05
E	2.0	2.71	7300.	85.	67.	322.5	67.5	0.0	0.000E+00	0.000E+00	4.541E-06
E	4.2	14.29	7300.	85.	67.	322.5	67.5	0.0	0.000E+00	0.000E+00	2.119E-06
E	7.0	20.36	7300.	85.	67.	322.5	67.5	0.0	0.000E+00	0.000E+00	1.271E-06
E	10.3	7.58	7300.	85.	67.	322.5	67.5	0.0	0.000E+00	0.000E+00	8.591E-07
E	13.4	0.51	7300.	85.	67.	322.5	67.5	0.0	0.000E+00	0.000E+00	6.622E-07
E	30.7	0.09	7300.	85.	67.	322.5	67.5	0.0	0.000E+00	0.000E+00	2.890E-07
F	0.3	0.02	7300.	85.	67.	222.6	40.9	0.0	0.000E+00	0.000E+00	3.220E-05
F	2.0	1.47	7300.	85.	67.	222.6	40.9	0.0	0.000E+00	0.000E+00	4.600E-06
F	4.2	4.14	7300.	85.	67.	222.6	40.9	0.0	0.000E+00	0.000E+00	2.146E-06
F	7.0	3.63	7300.	85.	67.	222.6	40.9	0.0	0.000E+00	0.000E+00	1.288E-06
F	10.3	0.37	7300.	85.	67.	222.6	40.9	0.0	0.000E+00	0.000E+00	8.702E-07
G	2.0	0.41	20000.	85.	67.	381.8	33.2	0.0	0.000E+00	0.000E+00	1.628E-06
G	4.2	0.46	20000.	85.	67.	381.8	33.2	0.0	0.000E+00	0.000E+00	7.598E-07
G	7.0	0.28	20000.	85.	67.	381.8	33.2	0.0	0.000E+00	0.000E+00	4.559E-07
G	10.3	0.05	20000.	85.	67.	381.8	33.2	0.0	0.000E+00	0.000E+00	3.080E-07

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

NNW SECTOR BOUNDARY DISTANCE = 7300.0 METERS
BUILDING WAKE CREDIT IS NOT INCLUDED.
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

3.220E-05	3.179E-05	2.103E-05	4.600E-06	4.541E-06	3.004E-06	2.146E-06	2.119E-06	1.628E-06	1.402E-06
0.017	0.036	0.040	1.511	4.222	5.831	9.967	24.260	24.674	35.842
0.00086	0.00184	0.00203	0.07667	0.21429	0.29592	0.50585	1.23127	1.25226	1.81906
1.288E-06	1.271E-06	8.702E-07	8.591E-07	8.411E-07	7.598E-07	6.622E-07	5.683E-07	4.559E-07	4.381E-07
39.472	59.832	60.200	67.783	89.200	89.659	90.165	95.588	95.864	96.369
2.00333	3.03664	3.05530	3.44017	4.52712	4.55045	4.57611	4.85134	4.86534	4.89100
3.471E-07	3.080E-07	2.890E-07	2.082E-07	1.912E-07	1.407E-07	1.085E-07	1.038E-07	8.471E-08	6.228E-08
96.921	96.967	97.059	98.070	98.391	98.851	98.897	99.035	99.127	99.494
4.91899	4.92132	4.92598	4.97730	4.99363	5.01695	5.01929	5.02628	5.03095	5.04961
5.083E-08	4.208E-08	3.244E-08							
99.586	99.954	100.000							
5.05427	5.07293	5.07527							

BELOW IS PRINTED THE MAXIMUM VALUE OF CHI/Q AND THE DISTANCE IN METERS FROM THE STACK AT WHICH THE VALUE OCCURRED.
THIS DISTANCE MAY BE WITHIN THE SITE BOUNDARY.

CHI/Q = 3.220E-05 DISTANCE = 7300.000

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 1.230
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 3.034

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HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 5)=   4.524
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 6)=   4.848
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 7)=   4.887

  K  I   XQSAVE(K,I)  XQINT(K,I) XQSLOP(K,I)
  8  1     -10.34363 -10.66586  -0.07497
  8  2     -10.35648 -16.30418  -1.44133
  8  3     -13.06453 -16.15252  -1.37386
  8  4     -13.57536 -17.81263  -2.25885
  8  5     -13.98859 -34.03220 -11.83969
  8  6     -14.38063-124.39010 -66.27860
  8  7     -14.64091     NUMXQ(K)=  7
    9.472E-06              0.051              1.000
    5.946E-06              0.152              3.000
    4.715E-06              0.254              5.000
    3.377E-06              0.508             10.000
    2.746E-06              0.761             15.000
    2.356E-06              1.015             20.000
    2.086E-06              1.269             25.000
    1.891E-06              1.523             30.000
    1.736E-06              1.776             35.000
    1.611E-06              2.030             40.000
    1.505E-06              2.284             45.000
    1.416E-06              2.538             50.000
    1.338E-06              2.791             55.000
    1.268E-06              3.045             60.000
    1.170E-06              3.299             65.000
    1.085E-06              3.553             70.000
    1.010E-06              3.806             75.000
    9.442E-07              4.060             80.000
    8.856E-07              4.314             85.000
    7.998E-07              4.568             90.000

    3.403E-06              0.5                9.85

ANNUAL AVERAGE =   2.97E-08

K=  8     FIVEXQ(K)= 3.403E-06     FIVEPR(K)= 9.852

FUMIGATION X/Q AT THE BOUNDARY:   1.33E-05

 EXPONENTIAL TERM AND FREQUENCIES

   9.977E-01   9.975E-01   9.839E-01   8.320E-01   6.071E-01   2.574E-01   1.266E-01
       0.184       1.103       3.171      43.618      89.183      98.805     100.000
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE N SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 152.4 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	6.2	0.28	7300.	110.	42.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	5.090E-08
A	9.2	0.16	7300.	110.	42.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	3.439E-08
B	3.7	0.07	7300.	110.	42.	848.1	962.0	0.0	0.000E+00	0.000E+00	1.040E-07
B	6.2	0.58	7300.	110.	42.	848.1	962.0	0.0	0.000E+00	0.000E+00	6.238E-08
B	9.2	0.72	7300.	110.	42.	848.1	962.0	0.0	0.000E+00	0.000E+00	4.215E-08
B	12.0	0.12	7300.	110.	42.	848.1	962.0	0.0	0.000E+00	0.000E+00	3.249E-08
B	27.5	0.02	7300.	110.	42.	848.1	962.0	0.0	0.000E+00	0.000E+00	1.418E-08
C	3.7	0.44	7300.	110.	42.	644.0	373.7	0.0	0.000E+00	0.000E+00	3.505E-07
C	6.2	1.68	7300.	110.	42.	644.0	373.7	0.0	0.000E+00	0.000E+00	2.103E-07
C	9.2	1.56	7300.	110.	42.	644.0	373.7	0.0	0.000E+00	0.000E+00	1.421E-07
C	12.0	0.21	7300.	110.	42.	644.0	373.7	0.0	0.000E+00	0.000E+00	1.095E-07
C	27.5	0.02	7300.	110.	42.	644.0	373.7	0.0	0.000E+00	0.000E+00	4.779E-08
D	0.2	0.00	7300.	110.	42.	453.5	111.1	0.0	0.000E+00	0.000E+00	2.350E-05
D	1.7	0.96	7300.	110.	42.	453.5	111.1	0.0	0.000E+00	0.000E+00	3.357E-06
D	3.7	7.00	7300.	110.	42.	453.5	111.1	0.0	0.000E+00	0.000E+00	1.567E-06
D	6.2	16.51	7300.	110.	42.	453.5	111.1	0.0	0.000E+00	0.000E+00	9.400E-07
D	9.2	11.24	7300.	110.	42.	453.5	111.1	0.0	0.000E+00	0.000E+00	6.351E-07
D	12.0	2.31	7300.	110.	42.	453.5	111.1	0.0	0.000E+00	0.000E+00	4.896E-07
D	27.5	0.68	7300.	110.	42.	453.5	111.1	0.0	0.000E+00	0.000E+00	2.136E-07
E	0.3	0.01	7300.	110.	42.	322.5	67.5	0.0	0.000E+00	0.000E+00	4.297E-05
E	2.0	1.63	7300.	110.	42.	322.5	67.5	0.0	0.000E+00	0.000E+00	6.139E-06
E	4.2	10.14	7300.	110.	42.	322.5	67.5	0.0	0.000E+00	0.000E+00	2.865E-06
E	7.0	20.78	7300.	110.	42.	322.5	67.5	0.0	0.000E+00	0.000E+00	1.719E-06
E	10.3	12.03	7300.	110.	42.	322.5	67.5	0.0	0.000E+00	0.000E+00	1.161E-06
E	13.4	1.49	7300.	110.	42.	322.5	67.5	0.0	0.000E+00	0.000E+00	8.952E-07
E	30.7	0.14	7300.	110.	42.	322.5	67.5	0.0	0.000E+00	0.000E+00	3.907E-07
F	0.3	0.01	7300.	110.	42.	222.6	40.9	0.0	0.000E+00	0.000E+00	7.311E-05
F	2.0	0.54	7300.	110.	42.	222.6	40.9	0.0	0.000E+00	0.000E+00	1.044E-05
F	4.2	3.13	7300.	110.	42.	222.6	40.9	0.0	0.000E+00	0.000E+00	4.874E-06
F	7.0	3.03	7300.	110.	42.	222.6	40.9	0.0	0.000E+00	0.000E+00	2.924E-06
F	10.3	1.03	7300.	110.	42.	222.6	40.9	0.0	0.000E+00	0.000E+00	1.976E-06
G	2.0	0.40	7300.	110.	42.	153.6	24.8	0.0	0.000E+00	0.000E+00	9.908E-06
G	4.2	0.79	7300.	110.	42.	153.6	24.8	0.0	0.000E+00	0.000E+00	4.624E-06

G	7.0	0.23	7300.	110.	42.	153.6	24.8	0.0	0.000E+00	0.000E+00	2.774E-06
G	10.3	0.05	7300.	110.	42.	153.6	24.8	0.0	0.000E+00	0.000E+00	1.875E-06

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

N SECTOR BOUNDARY DISTANCE = 7300.0 METERS
BUILDING WAKE CREDIT IS NOT INCLUDED.
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

7.311E-05	4.297E-05	2.350E-05	1.044E-05	9.908E-06	6.139E-06	4.874E-06	4.624E-06	3.357E-06	2.924E-06
0.006	0.018	0.020	0.556	0.953	2.585	5.710	6.503	7.460	10.491
0.00062	0.00178	0.00200	0.05565	0.09530	0.25858	0.57113	0.65044	0.74607	1.04930
2.865E-06	2.774E-06	1.976E-06	1.875E-06	1.719E-06	1.567E-06	1.161E-06	9.400E-07	8.952E-07	6.351E-07
20.636	20.870	21.896	21.942	42.722	49.718	61.752	78.264	79.757	90.998
2.06395	2.08727	2.18991	2.19457	4.27285	4.97261	6.17619	7.82762	7.97690	9.10118
4.896E-07	3.907E-07	3.505E-07	2.136E-07	2.103E-07	1.421E-07	1.095E-07	1.040E-07	6.238E-08	5.090E-08
93.307	93.447	93.890	94.566	96.245	97.808	98.018	98.088	98.671	98.951
9.33210	9.34609	9.39041	9.45805	9.62599	9.78227	9.80327	9.81026	9.86858	9.89657
4.779E-08	4.215E-08	3.439E-08	3.249E-08	1.418E-08					
98.974	99.697	99.860	99.977	100.000					
9.89890	9.97121	9.98753	9.99920	10.00153					

BELOW IS PRINTED THE MAXIMUM VALUE OF CHI/Q AND THE DISTANCE IN METERS FROM THE STACK AT WHICH THE VALUE OCCURRED.
THIS DISTANCE MAY BE WITHIN THE SITE BOUNDARY.

CHI/Q = 7.311E-05 DISTANCE = 7300.000

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 0.650
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 2.062

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HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 4)=   4.969
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 5)=   7.824
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 6)=   9.098

  K  I   XQSAVE(K,I)  XQINT(K,I) XQSLOP(K,I)
  9  1      -9.52359 -15.91905  -1.46331
  9  2     -12.28426 -14.96992  -1.08121
  9  3     -12.76301 -15.89571  -1.53477
  9  4     -13.36661 -17.01296  -2.21276
  9  5     -13.87743 -20.63088  -4.76595
  9  6     -14.26948     NUMXQ(K)=  6
    1.123E-05              0.100              1.000
    6.806E-06              0.300              3.000
    5.292E-06              0.500              5.000
    3.901E-06              1.000             10.000
    3.295E-06              1.500             15.000
    2.905E-06              2.000             20.000
    2.531E-06              2.500             25.000
    2.241E-06              3.000             30.000
    2.016E-06              3.501             35.000
    1.835E-06              4.001             40.000
    1.686E-06              4.501             45.000
    1.557E-06              5.001             50.000
    1.404E-06              5.501             55.000
    1.276E-06              6.001             60.000
    1.166E-06              6.501             65.000
    1.071E-06              7.001             70.000
    9.884E-07              7.501             75.000
    8.886E-07              8.001             80.000
    7.597E-07              8.501             85.000
    6.539E-07              9.001             90.000

    5.293E-06              0.5                5.00

ANNUAL AVERAGE =   6.51E-08

K=  9     FIVEXQ(K)= 5.293E-06     FIVEPR(K)= 4.999

FUMIGATION X/Q AT THE BOUNDARY:   1.75E-05

 EXPONENTIAL TERM AND FREQUENCIES

   9.991E-01   9.990E-01   9.936E-01   9.298E-01   8.208E-01   5.845E-01   2.321E-01
       0.443       1.959       5.877      44.570      90.805      98.531     100.000
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE NNE SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 152.4 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	3.7	0.08	7300.	85.	67.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	8.471E-08
A	6.2	0.28	7300.	85.	67.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	5.083E-08
A	9.2	0.12	7300.	85.	67.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	3.434E-08
B	3.7	0.16	7300.	85.	67.	848.1	962.0	0.0	0.000E+00	0.000E+00	1.038E-07
B	6.2	0.56	7300.	85.	67.	848.1	962.0	0.0	0.000E+00	0.000E+00	6.228E-08
B	9.2	0.36	7300.	85.	67.	848.1	962.0	0.0	0.000E+00	0.000E+00	4.208E-08
B	12.0	0.08	7300.	85.	67.	848.1	962.0	0.0	0.000E+00	0.000E+00	3.244E-08
C	3.7	0.20	7300.	85.	67.	644.0	373.7	0.0	0.000E+00	0.000E+00	3.471E-07
C	6.2	1.47	7300.	85.	67.	644.0	373.7	0.0	0.000E+00	0.000E+00	2.082E-07
C	9.2	0.95	7300.	85.	67.	644.0	373.7	0.0	0.000E+00	0.000E+00	1.407E-07
D	0.2	0.00	7300.	85.	67.	453.5	111.1	0.0	0.000E+00	0.000E+00	2.103E-05
D	1.7	0.91	7300.	85.	67.	453.5	111.1	0.0	0.000E+00	0.000E+00	3.004E-06
D	3.7	7.60	7300.	85.	67.	453.5	111.1	0.0	0.000E+00	0.000E+00	1.402E-06
D	6.2	16.91	7300.	85.	67.	453.5	111.1	0.0	0.000E+00	0.000E+00	8.411E-07
D	9.2	6.60	7300.	85.	67.	453.5	111.1	0.0	0.000E+00	0.000E+00	5.683E-07
D	12.0	0.64	7300.	85.	67.	453.5	111.1	0.0	0.000E+00	0.000E+00	4.381E-07
D	27.5	0.36	7300.	85.	67.	453.5	111.1	0.0	0.000E+00	0.000E+00	1.912E-07
E	0.3	0.02	7300.	85.	67.	322.5	67.5	0.0	0.000E+00	0.000E+00	3.179E-05
E	2.0	2.23	7300.	85.	67.	322.5	67.5	0.0	0.000E+00	0.000E+00	4.541E-06
E	4.2	12.73	7300.	85.	67.	322.5	67.5	0.0	0.000E+00	0.000E+00	2.119E-06
E	7.0	22.95	7300.	85.	67.	322.5	67.5	0.0	0.000E+00	0.000E+00	1.271E-06
E	10.3	9.07	7300.	85.	67.	322.5	67.5	0.0	0.000E+00	0.000E+00	8.591E-07
E	13.4	0.76	7300.	85.	67.	322.5	67.5	0.0	0.000E+00	0.000E+00	6.622E-07
E	30.7	0.16	7300.	85.	67.	322.5	67.5	0.0	0.000E+00	0.000E+00	2.890E-07
F	0.3	0.01	7300.	85.	67.	222.6	40.9	0.0	0.000E+00	0.000E+00	3.220E-05
F	2.0	1.27	7300.	85.	67.	222.6	40.9	0.0	0.000E+00	0.000E+00	4.600E-06
F	4.2	5.61	7300.	85.	67.	222.6	40.9	0.0	0.000E+00	0.000E+00	2.146E-06
F	7.0	4.42	7300.	85.	67.	222.6	40.9	0.0	0.000E+00	0.000E+00	1.288E-06
F	10.3	0.91	7300.	85.	67.	222.6	40.9	0.0	0.000E+00	0.000E+00	8.702E-07
F	13.4	0.12	7300.	85.	67.	222.6	40.9	0.0	0.000E+00	0.000E+00	6.708E-07
G	2.0	0.36	20000.	85.	67.	381.8	33.2	0.0	0.000E+00	0.000E+00	1.628E-06
G	4.2	1.23	20000.	85.	67.	381.8	33.2	0.0	0.000E+00	0.000E+00	7.598E-07
G	7.0	0.84	20000.	85.	67.	381.8	33.2	0.0	0.000E+00	0.000E+00	4.559E-07

G	10.3	0.04	20000.	85.	67.	381.8	33.2	0.0	0.000E+00	0.000E+00	3.080E-07

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

NNE SECTOR BOUNDARY DISTANCE = 7300.0 METERS
BUILDING WAKE CREDIT IS NOT INCLUDED.
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

3.220E-05	3.179E-05	2.103E-05	4.600E-06	4.541E-06	3.004E-06	2.146E-06	2.119E-06	1.628E-06	1.402E-06
0.015	0.031	0.033	1.306	3.533	4.448	10.057	22.787	23.145	30.743
0.00086	0.00179	0.00191	0.07655	0.20717	0.26082	0.58971	1.33612	1.35711	1.80262
1.288E-06	1.271E-06	8.702E-07	8.591E-07	8.411E-07	7.598E-07	6.708E-07	6.622E-07	5.683E-07	4.559E-07
35.158	58.112	59.026	68.096	85.003	86.236	86.355	87.111	93.715	94.550
2.06153	3.40740	3.46105	3.99286	4.98419	5.05649	5.06349	5.10781	5.49501	5.54399
4.381E-07	3.471E-07	3.080E-07	2.890E-07	2.082E-07	1.912E-07	1.407E-07	1.038E-07	8.471E-08	6.228E-08
95.187	95.385	95.425	95.584	97.056	97.414	98.369	98.528	98.608	99.165
5.58131	5.59297	5.59531	5.60464	5.69094	5.71193	5.76791	5.77724	5.78191	5.81456
5.083E-08	4.208E-08	3.434E-08	3.244E-08						
99.443	99.801	99.920	100.000						
5.83089	5.85188	5.85888	5.86355						

BELOW IS PRINTED THE MAXIMUM VALUE OF CHI/Q AND THE DISTANCE IN METERS FROM THE STACK AT WHICH THE VALUE OCCURRED.
THIS DISTANCE MAY BE WITHIN THE SITE BOUNDARY.

CHI/Q = 3.220E-05 DISTANCE = 7300.000

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 1.335
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 3.404

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HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 5)=   4.980
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 6)=   5.491
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 7)=   5.578
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K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
10	1	-10.34363	-10.67816	-0.07783
10	2	-10.35648	-16.19523	-1.41278
10	3	-13.06453	-15.95552	-1.30460
10	4	-13.57536	-17.81822	-2.32558
10	5	-13.98859	-27.50484	-8.20785
10	6	-14.38063	-68.29697	-33.71915
10	7	-14.64091	NUMXQ(K)= 7	

9.077E-06	0.059	1.000
5.719E-06	0.176	3.000
4.542E-06	0.293	5.000
3.259E-06	0.586	10.000
2.651E-06	0.880	15.000
2.275E-06	1.173	20.000
2.021E-06	1.466	25.000
1.837E-06	1.759	30.000
1.692E-06	2.052	35.000
1.573E-06	2.345	40.000
1.473E-06	2.639	45.000
1.387E-06	2.932	50.000
1.313E-06	3.225	55.000
1.229E-06	3.518	60.000
1.129E-06	3.811	65.000
1.043E-06	4.104	70.000
9.668E-07	4.398	75.000
9.002E-07	4.691	80.000
8.411E-07	4.984	85.000
6.692E-07	5.277	90.000
3.525E-06	0.5	8.53

ANNUAL AVERAGE = 3.11E-08

K= 10 FIVEXQ(K)= 3.525E-06 FIVEPR(K)= 8.527

FUMIGATION X/Q AT THE BOUNDARY: 1.33E-05

EXPONENTIAL TERM AND FREQUENCIES

9.977E-01	9.975E-01	9.839E-01	8.320E-01	6.071E-01	2.574E-01	1.266E-01
0.477	1.631	4.256	37.276	85.187	97.534	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE NE SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 152.4 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	3.7	0.09	7300.	85.	67.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	8.471E-08
A	6.2	0.23	7300.	85.	67.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	5.083E-08
A	9.2	0.09	7300.	85.	67.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	3.434E-08
B	3.7	0.14	7300.	85.	67.	848.1	962.0	0.0	0.000E+00	0.000E+00	1.038E-07
B	6.2	0.61	7300.	85.	67.	848.1	962.0	0.0	0.000E+00	0.000E+00	6.228E-08
B	9.2	0.28	7300.	85.	67.	848.1	962.0	0.0	0.000E+00	0.000E+00	4.208E-08
B	12.0	0.05	7300.	85.	67.	848.1	962.0	0.0	0.000E+00	0.000E+00	3.244E-08
C	3.7	0.33	7300.	85.	67.	644.0	373.7	0.0	0.000E+00	0.000E+00	3.471E-07
C	6.2	1.41	7300.	85.	67.	644.0	373.7	0.0	0.000E+00	0.000E+00	2.082E-07
C	9.2	0.99	7300.	85.	67.	644.0	373.7	0.0	0.000E+00	0.000E+00	1.407E-07
C	12.0	0.19	7300.	85.	67.	644.0	373.7	0.0	0.000E+00	0.000E+00	1.085E-07
C	27.5	0.05	7300.	85.	67.	644.0	373.7	0.0	0.000E+00	0.000E+00	4.733E-08
D	0.2	0.00	7300.	85.	67.	453.5	111.1	0.0	0.000E+00	0.000E+00	2.103E-05
D	1.7	1.50	7300.	85.	67.	453.5	111.1	0.0	0.000E+00	0.000E+00	3.004E-06
D	3.7	7.28	7300.	85.	67.	453.5	111.1	0.0	0.000E+00	0.000E+00	1.402E-06
D	6.2	13.48	7300.	85.	67.	453.5	111.1	0.0	0.000E+00	0.000E+00	8.411E-07
D	9.2	5.92	7300.	85.	67.	453.5	111.1	0.0	0.000E+00	0.000E+00	5.683E-07
D	12.0	0.75	7300.	85.	67.	453.5	111.1	0.0	0.000E+00	0.000E+00	4.381E-07
D	27.5	0.14	7300.	85.	67.	453.5	111.1	0.0	0.000E+00	0.000E+00	1.912E-07
E	0.3	0.02	7300.	85.	67.	322.5	67.5	0.0	0.000E+00	0.000E+00	3.179E-05
E	2.0	2.77	7300.	85.	67.	322.5	67.5	0.0	0.000E+00	0.000E+00	4.541E-06
E	4.2	13.19	7300.	85.	67.	322.5	67.5	0.0	0.000E+00	0.000E+00	2.119E-06
E	7.0	16.62	7300.	85.	67.	322.5	67.5	0.0	0.000E+00	0.000E+00	1.271E-06
E	10.3	10.14	7300.	85.	67.	322.5	67.5	0.0	0.000E+00	0.000E+00	8.591E-07
E	13.4	0.85	7300.	85.	67.	322.5	67.5	0.0	0.000E+00	0.000E+00	6.622E-07
E	30.7	0.09	7300.	85.	67.	322.5	67.5	0.0	0.000E+00	0.000E+00	2.890E-07
F	0.3	0.02	7300.	85.	67.	222.6	40.9	0.0	0.000E+00	0.000E+00	3.220E-05
F	2.0	1.50	7300.	85.	67.	222.6	40.9	0.0	0.000E+00	0.000E+00	4.600E-06
F	4.2	7.32	7300.	85.	67.	222.6	40.9	0.0	0.000E+00	0.000E+00	2.146E-06
F	7.0	7.37	7300.	85.	67.	222.6	40.9	0.0	0.000E+00	0.000E+00	1.288E-06
F	10.3	1.83	7300.	85.	67.	222.6	40.9	0.0	0.000E+00	0.000E+00	8.702E-07
G	2.0	0.28	20000.	85.	67.	381.8	33.2	0.0	0.000E+00	0.000E+00	1.628E-06
G	4.2	1.69	20000.	85.	67.	381.8	33.2	0.0	0.000E+00	0.000E+00	7.598E-07

G	7.0	2.39	20000.	85.	67.	381.8	33.2	0.0	0.000E+00	0.000E+00	4.559E-07
G	10.3	0.38	20000.	85.	67.	381.8	33.2	0.0	0.000E+00	0.000E+00	3.080E-07

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

NE SECTOR BOUNDARY DISTANCE = 7300.0 METERS
BUILDING WAKE CREDIT IS NOT INCLUDED.
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

3.220E-05	3.179E-05	2.103E-05	4.600E-06	4.541E-06	3.004E-06	2.146E-06	2.119E-06	1.628E-06	1.402E-06
0.017	0.037	0.040	1.543	4.313	5.815	13.140	26.333	26.615	33.892
0.00086	0.00184	0.00201	0.07665	0.21427	0.28891	0.65278	1.30822	1.32222	1.68376
1.288E-06	1.271E-06	8.702E-07	8.591E-07	8.411E-07	7.598E-07	6.622E-07	5.683E-07	4.559E-07	4.381E-07
41.264	57.885	59.716	69.857	83.332	85.022	85.868	91.783	94.178	94.929
2.04997	2.87568	2.96665	3.47047	4.13991	4.22388	4.26586	4.55976	4.67872	4.71604
3.471E-07	3.080E-07	2.890E-07	2.082E-07	1.912E-07	1.407E-07	1.085E-07	1.038E-07	8.471E-08	6.228E-08
95.258	95.633	95.727	97.136	97.277	98.263	98.451	98.591	98.685	99.296
4.73237	4.75103	4.75569	4.82567	4.83267	4.88165	4.89098	4.89798	4.90264	4.93297
5.083E-08	4.733E-08	4.208E-08	3.434E-08	3.244E-08					
99.530	99.577	99.859	99.953	100.000					
4.94463	4.94696	4.96096	4.96562	4.96795					

BELOW IS PRINTED THE MAXIMUM VALUE OF CHI/Q AND THE DISTANCE IN METERS FROM THE STACK AT WHICH THE VALUE OCCURRED.
THIS DISTANCE MAY BE WITHIN THE SITE BOUNDARY.

CHI/Q = 3.220E-05 DISTANCE = 7300.000

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED

CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 1.307
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 2.873

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HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 5)=   4.136
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 6)=   4.556
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 7)=   4.712

  K  I   XQSAVE(K,I)  XQINT(K,I) XQSLOP(K,I)
 11  1     -10.34363 -10.66586  -0.07497
 11  2     -10.35648 -16.23081  -1.42355
 11  3     -13.06453 -16.56700  -1.57470
 11  4     -13.57536 -18.34056  -2.50825
 11  5     -13.98859 -28.91752  -8.60427
 11  6     -14.38063 -41.69655 -16.16806
 11  7     -14.64091     NUMXQ(K)=  7
    9.697E-06              0.050              1.000
    6.127E-06              0.149              3.000
    4.875E-06              0.248              5.000
    3.509E-06              0.497             10.000
    2.861E-06              0.745             15.000
    2.461E-06              0.994             20.000
    2.181E-06              1.242             25.000
    1.955E-06              1.490             30.000
    1.774E-06              1.739             35.000
    1.628E-06              1.987             40.000
    1.507E-06              2.236             45.000
    1.405E-06              2.484             50.000
    1.317E-06              2.732             55.000
    1.222E-06              2.981             60.000
    1.118E-06              3.229             65.000
    1.028E-06              3.478             70.000
    9.505E-07              3.726             75.000
    8.821E-07              3.974             80.000
    7.765E-07              4.223             85.000
    6.158E-07              4.471             90.000

    3.498E-06              0.5               10.06

ANNUAL AVERAGE =   2.69E-08

K= 11     FIVEXQ(K)= 3.498E-06     FIVEPR(K)=10.065

FUMIGATION X/Q AT THE BOUNDARY:   1.33E-05

 EXPONENTIAL TERM AND FREQUENCIES

   9.977E-01   9.975E-01   9.839E-01   8.320E-01   6.071E-01   2.574E-01   1.266E-01
       0.423       1.502       4.460      33.527      77.211      95.258     100.000
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE ENE SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 152.4 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	6.2	0.33	7300.	67.	85.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	5.076E-08
A	9.2	0.14	7300.	67.	85.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	3.430E-08
A	12.0	0.09	7300.	67.	85.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	2.644E-08
A	27.5	0.09	7300.	67.	85.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	1.154E-08
B	3.7	0.05	7300.	67.	85.	848.1	962.0	0.0	0.000E+00	0.000E+00	1.037E-07
B	6.2	0.38	7300.	67.	85.	848.1	962.0	0.0	0.000E+00	0.000E+00	6.219E-08
B	9.2	0.89	7300.	67.	85.	848.1	962.0	0.0	0.000E+00	0.000E+00	4.202E-08
B	12.0	0.09	7300.	67.	85.	848.1	962.0	0.0	0.000E+00	0.000E+00	3.239E-08
B	27.5	0.05	7300.	67.	85.	848.1	962.0	0.0	0.000E+00	0.000E+00	1.413E-08
C	3.7	0.14	7300.	67.	85.	644.0	373.7	0.0	0.000E+00	0.000E+00	3.437E-07
C	6.2	1.22	7300.	67.	85.	644.0	373.7	0.0	0.000E+00	0.000E+00	2.062E-07
C	9.2	1.46	7300.	67.	85.	644.0	373.7	0.0	0.000E+00	0.000E+00	1.393E-07
C	12.0	0.19	7300.	67.	85.	644.0	373.7	0.0	0.000E+00	0.000E+00	1.074E-07
C	27.5	0.05	7300.	67.	85.	644.0	373.7	0.0	0.000E+00	0.000E+00	4.686E-08
D	0.2	0.00	7300.	67.	85.	453.5	111.1	0.0	0.000E+00	0.000E+00	1.881E-05
D	1.7	0.71	7300.	67.	85.	453.5	111.1	0.0	0.000E+00	0.000E+00	2.687E-06
D	3.7	6.02	7300.	67.	85.	453.5	111.1	0.0	0.000E+00	0.000E+00	1.254E-06
D	6.2	9.93	7300.	67.	85.	453.5	111.1	0.0	0.000E+00	0.000E+00	7.524E-07
D	9.2	8.94	7300.	67.	85.	453.5	111.1	0.0	0.000E+00	0.000E+00	5.084E-07
D	12.0	1.03	7300.	67.	85.	453.5	111.1	0.0	0.000E+00	0.000E+00	3.919E-07
D	27.5	0.28	7300.	67.	85.	453.5	111.1	0.0	0.000E+00	0.000E+00	1.710E-07
E	0.3	0.02	7300.	67.	85.	322.5	67.5	0.0	0.000E+00	0.000E+00	2.350E-05
E	2.0	2.54	7300.	67.	85.	322.5	67.5	0.0	0.000E+00	0.000E+00	3.357E-06
E	4.2	8.80	7300.	67.	85.	322.5	67.5	0.0	0.000E+00	0.000E+00	1.567E-06
E	7.0	13.97	7300.	67.	85.	322.5	67.5	0.0	0.000E+00	0.000E+00	9.399E-07
E	10.3	12.75	7300.	67.	85.	322.5	67.5	0.0	0.000E+00	0.000E+00	6.351E-07
E	13.4	1.41	7300.	67.	85.	322.5	67.5	0.0	0.000E+00	0.000E+00	4.895E-07
E	30.7	0.05	7300.	67.	85.	322.5	67.5	0.0	0.000E+00	0.000E+00	2.136E-07
F	0.3	0.02	10000.	67.	85.	295.8	46.1	0.0	0.000E+00	0.000E+00	1.504E-05
F	2.0	1.55	10000.	67.	85.	295.8	46.1	0.0	0.000E+00	0.000E+00	2.149E-06
F	4.2	5.50	10000.	67.	85.	295.8	46.1	0.0	0.000E+00	0.000E+00	1.003E-06
F	7.0	8.33	10000.	67.	85.	295.8	46.1	0.0	0.000E+00	0.000E+00	6.017E-07
F	10.3	5.13	10000.	67.	85.	295.8	46.1	0.0	0.000E+00	0.000E+00	4.066E-07
F	13.4	0.85	10000.	67.	85.	295.8	46.1	0.0	0.000E+00	0.000E+00	3.134E-07

G	2.0	0.85	90000.	67.	85.	1000.0	46.0	0.0	0.000E+00	0.000E+00	6.316E-07
G	4.2	1.60	90000.	67.	85.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.947E-07
G	7.0	3.29	90000.	67.	85.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.768E-07
G	10.3	1.22	90000.	67.	85.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.195E-07
G	13.4	0.05	90000.	67.	85.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.210E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

ENE SECTOR BOUNDARY DISTANCE = 7300.0 METERS
BUILDING WAKE CREDIT IS NOT INCLUDED.
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

2.350E-05	1.881E-05	1.504E-05	3.357E-06	2.687E-06	2.149E-06	1.567E-06	1.254E-06	1.003E-06	9.399E-07
0.018	0.020	0.038	2.578	3.283	4.836	13.632	19.654	25.158	39.129
0.00090	0.00098	0.00186	0.12782	0.16281	0.23978	0.67596	0.97453	1.24743	1.94019
7.524E-07	6.351E-07	6.316E-07	6.017E-07	5.084E-07	4.895E-07	4.066E-07	3.919E-07	3.437E-07	3.134E-07
49.054	61.803	62.649	70.976	79.913	81.325	86.452	87.487	87.628	88.475
2.43235	3.06447	3.10645	3.51931	3.96249	4.03247	4.28671	4.33803	4.34502	4.38701
2.947E-07	2.136E-07	2.062E-07	1.768E-07	1.710E-07	1.393E-07	1.195E-07	1.074E-07	1.037E-07	9.210E-08
90.074	90.121	91.344	94.637	94.920	96.378	97.601	97.789	97.836	97.883
4.46632	4.46865	4.52929	4.69257	4.70657	4.77887	4.83952	4.84885	4.85118	4.85352
6.219E-08	5.076E-08	4.686E-08	4.202E-08	3.430E-08	3.239E-08	2.644E-08	1.413E-08	1.154E-08	
98.259	98.589	98.636	99.530	99.671	99.765	99.859	99.906	100.000	
4.87218	4.88850	4.89084	4.93515	4.94215	4.94682	4.95148	4.95381	4.95848	

BELOW IS PRINTED THE MAXIMUM VALUE OF CHI/Q AND THE DISTANCE IN METERS FROM THE STACK AT WHICH THE VALUE OCCURRED.
THIS DISTANCE MAY BE WITHIN THE SITE BOUNDARY.

CHI/Q = 2.350E-05 DISTANCE = 7300.000

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED

CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 1.938
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 3.516

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HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 4)=   3.959
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 5)=   4.029
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 6)=   4.283
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 7)=   4.335
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 8)=   4.463
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 9)=   4.689

  K  I   XQSAVE(K,I)  XQINT(K,I) XQSLOP(K,I)
 12  1     -10.65860 -16.87074  -1.44833
 12  2     -13.87747 -17.46548  -1.73610
 12  3     -14.32344 -19.93372  -3.09991
 12  4     -14.49200 -22.65677  -4.65111
 12  5     -14.52980 -25.87565  -6.49328
 12  6     -14.71549 -25.99988  -6.56556
 12  7     -14.75228 -50.17148 -20.67527
 12  8     -15.03721 -51.90182 -21.69352
 12  9     -15.54804     NUMXQ(K)=  9
    5.553E-06              0.050              1.000
    3.481E-06              0.149              3.000
    2.759E-06              0.248              5.000
    1.974E-06              0.496             10.000
    1.604E-06              0.744             15.000
    1.376E-06              0.992             20.000
    1.217E-06              1.240             25.000
    1.098E-06              1.488             30.000
    1.004E-06              1.735             35.000
    9.252E-07              1.983             40.000
    8.497E-07              2.231             45.000
    7.864E-07              2.479             50.000
    7.323E-07              2.727             55.000
    6.855E-07              2.975             60.000
    6.445E-07              3.223             65.000
    6.083E-07              3.471             70.000
    5.566E-07              3.719             75.000
    5.072E-07              3.967             80.000
    4.281E-07              4.215             85.000
    2.971E-07              4.463             90.000

    1.966E-06              0.5               10.08

ANNUAL AVERAGE =   1.66E-08

K= 12     FIVEXQ(K)= 1.966E-06     FIVEPR(K)=10.084

FUMIGATION X/Q AT THE BOUNDARY:   1.05E-05

 EXPONENTIAL TERM AND FREQUENCIES

   9.964E-01   9.961E-01   9.742E-01   7.443E-01   4.488E-01   1.802E-01   1.786E-01
       0.659       2.117       5.175      32.084      71.616      92.991     100.000
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE E SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 152.4 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	3.7	0.03	7300.	48.	104.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	8.445E-08
A	6.2	0.24	7300.	48.	104.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	5.067E-08
A	9.2	0.63	7300.	48.	104.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	3.423E-08
A	12.0	0.42	7300.	48.	104.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	2.639E-08
A	27.5	0.06	7300.	48.	104.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	1.152E-08
B	3.7	0.12	7300.	48.	104.	848.1	962.0	0.0	0.000E+00	0.000E+00	1.035E-07
B	6.2	0.63	7300.	48.	104.	848.1	962.0	0.0	0.000E+00	0.000E+00	6.207E-08
B	9.2	0.81	7300.	48.	104.	848.1	962.0	0.0	0.000E+00	0.000E+00	4.194E-08
B	12.0	0.36	7300.	48.	104.	848.1	962.0	0.0	0.000E+00	0.000E+00	3.233E-08
B	27.5	0.18	7300.	48.	104.	848.1	962.0	0.0	0.000E+00	0.000E+00	1.411E-08
C	3.7	0.15	7300.	48.	104.	644.0	373.7	0.0	0.000E+00	0.000E+00	3.393E-07
C	6.2	1.25	7300.	48.	104.	644.0	373.7	0.0	0.000E+00	0.000E+00	2.036E-07
C	9.2	1.67	7300.	48.	104.	644.0	373.7	0.0	0.000E+00	0.000E+00	1.375E-07
C	12.0	0.86	7300.	48.	104.	644.0	373.7	0.0	0.000E+00	0.000E+00	1.060E-07
C	27.5	0.39	7300.	48.	104.	644.0	373.7	0.0	0.000E+00	0.000E+00	4.626E-08
D	0.2	0.00	7300.	48.	104.	453.5	111.1	0.0	0.000E+00	0.000E+00	1.626E-05
D	1.7	0.78	7300.	48.	104.	453.5	111.1	0.0	0.000E+00	0.000E+00	2.322E-06
D	3.7	4.21	7300.	48.	104.	453.5	111.1	0.0	0.000E+00	0.000E+00	1.084E-06
D	6.2	8.98	7300.	48.	104.	453.5	111.1	0.0	0.000E+00	0.000E+00	6.502E-07
D	9.2	11.78	7300.	48.	104.	453.5	111.1	0.0	0.000E+00	0.000E+00	4.393E-07
D	12.0	6.71	7300.	48.	104.	453.5	111.1	0.0	0.000E+00	0.000E+00	3.386E-07
D	27.5	2.68	7300.	48.	104.	453.5	111.1	0.0	0.000E+00	0.000E+00	1.478E-07
E	0.3	0.01	7300.	48.	104.	322.5	67.5	0.0	0.000E+00	0.000E+00	1.581E-05
E	2.0	1.61	7300.	48.	104.	322.5	67.5	0.0	0.000E+00	0.000E+00	2.259E-06
E	4.2	5.16	7300.	48.	104.	322.5	67.5	0.0	0.000E+00	0.000E+00	1.054E-06
E	7.0	11.78	7300.	48.	104.	322.5	67.5	0.0	0.000E+00	0.000E+00	6.325E-07
E	10.3	15.99	7300.	48.	104.	322.5	67.5	0.0	0.000E+00	0.000E+00	4.274E-07
E	13.4	2.33	7300.	48.	104.	322.5	67.5	0.0	0.000E+00	0.000E+00	3.294E-07
E	30.7	0.27	7300.	48.	104.	322.5	67.5	0.0	0.000E+00	0.000E+00	1.437E-07
F	0.3	0.01	20000.	48.	104.	553.1	58.7	0.0	0.000E+00	0.000E+00	7.219E-06
F	2.0	0.89	20000.	48.	104.	553.1	58.7	0.0	0.000E+00	0.000E+00	1.031E-06
F	4.2	2.54	20000.	48.	104.	553.1	58.7	0.0	0.000E+00	0.000E+00	4.813E-07
F	7.0	5.91	20000.	48.	104.	553.1	58.7	0.0	0.000E+00	0.000E+00	2.888E-07
F	10.3	5.01	20000.	48.	104.	553.1	58.7	0.0	0.000E+00	0.000E+00	1.951E-07

F	13.4	0.72	20000.	48.	104.	553.1	58.7	0.0	0.000E+00	0.000E+00	1.504E-07
G	2.0	0.39	90000.	48.	104.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.694E-07
G	4.2	1.19	90000.	48.	104.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.257E-07
G	7.0	2.06	90000.	48.	104.	1000.0	46.0	0.0	0.000E+00	0.000E+00	7.544E-08
G	10.3	1.16	90000.	48.	104.	1000.0	46.0	0.0	0.000E+00	0.000E+00	5.097E-08
G	13.4	0.03	90000.	48.	104.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.929E-08
G	30.7	0.03	90000.	48.	104.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.715E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

E SECTOR BOUNDARY DISTANCE = 7300.0 METERS
BUILDING WAKE CREDIT IS NOT INCLUDED.
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.626E-05	1.581E-05	7.219E-06	2.322E-06	2.259E-06	1.084E-06	1.054E-06	1.031E-06	6.502E-07	6.325E-07
0.002	0.013	0.024	0.799	2.410	6.615	11.775	12.670	21.647	33.429
0.00014	0.00103	0.00184	0.06249	0.18844	0.51733	0.92086	0.99083	1.69292	2.61427
4.813E-07	4.393E-07	4.274E-07	3.393E-07	3.386E-07	3.294E-07	2.888E-07	2.694E-07	2.036E-07	1.951E-07
35.964	47.745	63.732	63.881	70.592	72.918	78.824	79.211	80.464	85.475
2.81253	3.73388	4.98411	4.99578	5.52059	5.70253	6.16437	6.19469	6.29266	6.68452
1.504E-07	1.478E-07	1.437E-07	1.375E-07	1.257E-07	1.060E-07	1.035E-07	8.445E-08	7.544E-08	6.207E-08
86.191	88.875	89.143	90.814	92.007	92.872	92.991	93.021	95.079	95.705
6.74050	6.95043	6.97142	7.10205	7.19535	7.26299	7.27232	7.27465	7.43560	7.48458
5.097E-08	5.067E-08	4.626E-08	4.194E-08	3.929E-08	3.423E-08	3.233E-08	2.639E-08	1.715E-08	1.411E-08
96.868	97.107	97.495	98.300	98.330	98.956	99.314	99.732	99.761	99.940
7.57555	7.59421	7.62453	7.68751	7.68984	7.73882	7.76681	7.79947	7.80180	7.81580
1.152E-08									
100.000									
7.82046									

BELOW IS PRINTED THE MAXIMUM VALUE OF CHI/Q AND THE DISTANCE IN METERS FROM THE STACK AT WHICH THE VALUE OCCURRED.
THIS DISTANCE MAY BE WITHIN THE SITE BOUNDARY.

CHI/Q = 1.752E-05 DISTANCE = 5000.000

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED
CHI/Q WITH RESPECT TO WHEN THE WIND BLOWS

SEC/CUBIC METER THE TOTAL TIME INTO THIS SECTOR ONLY

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HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 3)=   2.612
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 4)=   4.980
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 5)=   6.161
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 6)=   6.681
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 7)=   7.098
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 8)=   7.192
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 K  I   XQSAVE(K,I)  XQINT(K,I) XQSLOP(K,I)
13  1     -11.02711 -11.32689  -0.06393
13  2     -11.05472 -16.97121  -1.38966
13  3     -14.27359 -16.85818  -1.33143
13  4     -14.66564 -20.79554  -3.72242
13  5     -15.05767 -29.64292  -9.46211
13  6     -15.44971 -32.10639 -11.10442
13  7     -15.79937 -35.05578 -13.11283
13  8     -15.88907     NUMXQ(K)=  8
   3.454E-06              0.078              1.000
   2.168E-06              0.235              3.000
   1.718E-06              0.391              5.000
   1.226E-06              0.782             10.000
   9.937E-07              1.173             15.000
   8.500E-07              1.564             20.000
   7.497E-07              1.955             25.000
   6.745E-07              2.346             30.000
   6.160E-07              2.737             35.000
   5.697E-07              3.128             40.000
   5.310E-07              3.519             45.000
   4.980E-07              3.910             50.000
   4.693E-07              4.301             55.000
   4.442E-07              4.692             60.000
   4.124E-07              5.083             65.000
   3.602E-07              5.474             70.000
   3.170E-07              5.865             75.000
   2.689E-07              6.256             80.000
   2.005E-07              6.647             85.000
   1.449E-07              7.038             90.000

   1.529E-06              0.5                6.39

ANNUAL AVERAGE =   1.64E-08

K= 13     FIVEXQ(K)= 1.529E-06     FIVEPR(K)= 6.393

FUMIGATION X/Q AT THE BOUNDARY:   8.58E-06

 EXPONENTIAL TERM AND FREQUENCIES

   9.946E-01   9.941E-01   9.617E-01   6.432E-01   3.020E-01   2.058E-01   7.618E-02
       1.372       3.460       7.785      42.921      80.066      95.138     100.000
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE ESE SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 152.4 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	6.2	0.24	7300.	67.	85.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	5.076E-08
A	9.2	0.24	7300.	67.	85.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	3.430E-08
A	12.0	0.05	7300.	67.	85.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	2.644E-08
A	27.5	0.13	7300.	67.	85.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	1.154E-08
B	3.7	0.08	7300.	67.	85.	848.1	962.0	0.0	0.000E+00	0.000E+00	1.037E-07
B	6.2	0.24	7300.	67.	85.	848.1	962.0	0.0	0.000E+00	0.000E+00	6.219E-08
B	9.2	0.53	7300.	67.	85.	848.1	962.0	0.0	0.000E+00	0.000E+00	4.202E-08
B	12.0	0.37	7300.	67.	85.	848.1	962.0	0.0	0.000E+00	0.000E+00	3.239E-08
B	27.5	0.19	7300.	67.	85.	848.1	962.0	0.0	0.000E+00	0.000E+00	1.413E-08
C	3.7	0.13	7300.	67.	85.	644.0	373.7	0.0	0.000E+00	0.000E+00	3.437E-07
C	6.2	0.69	7300.	67.	85.	644.0	373.7	0.0	0.000E+00	0.000E+00	2.062E-07
C	9.2	1.57	7300.	67.	85.	644.0	373.7	0.0	0.000E+00	0.000E+00	1.393E-07
C	12.0	0.80	7300.	67.	85.	644.0	373.7	0.0	0.000E+00	0.000E+00	1.074E-07
C	27.5	0.72	7300.	67.	85.	644.0	373.7	0.0	0.000E+00	0.000E+00	4.686E-08
D	0.2	0.00	7300.	67.	85.	453.5	111.1	0.0	0.000E+00	0.000E+00	1.881E-05
D	1.7	1.01	7300.	67.	85.	453.5	111.1	0.0	0.000E+00	0.000E+00	2.687E-06
D	3.7	2.59	7300.	67.	85.	453.5	111.1	0.0	0.000E+00	0.000E+00	1.254E-06
D	6.2	9.48	7300.	67.	85.	453.5	111.1	0.0	0.000E+00	0.000E+00	7.524E-07
D	9.2	17.99	7300.	67.	85.	453.5	111.1	0.0	0.000E+00	0.000E+00	5.084E-07
D	12.0	11.96	7300.	67.	85.	453.5	111.1	0.0	0.000E+00	0.000E+00	3.919E-07
D	27.5	4.03	7300.	67.	85.	453.5	111.1	0.0	0.000E+00	0.000E+00	1.710E-07
E	0.3	0.01	7300.	67.	85.	322.5	67.5	0.0	0.000E+00	0.000E+00	2.350E-05
E	2.0	0.96	7300.	67.	85.	322.5	67.5	0.0	0.000E+00	0.000E+00	3.357E-06
E	4.2	3.68	7300.	67.	85.	322.5	67.5	0.0	0.000E+00	0.000E+00	1.567E-06
E	7.0	9.45	7300.	67.	85.	322.5	67.5	0.0	0.000E+00	0.000E+00	9.399E-07
E	10.3	15.56	7300.	67.	85.	322.5	67.5	0.0	0.000E+00	0.000E+00	6.351E-07
E	13.4	2.96	7300.	67.	85.	322.5	67.5	0.0	0.000E+00	0.000E+00	4.895E-07
E	30.7	0.32	7300.	67.	85.	322.5	67.5	0.0	0.000E+00	0.000E+00	2.136E-07
F	0.3	0.01	10000.	67.	85.	295.8	46.1	0.0	0.000E+00	0.000E+00	1.504E-05
F	2.0	0.75	10000.	67.	85.	295.8	46.1	0.0	0.000E+00	0.000E+00	2.149E-06
F	4.2	1.76	10000.	67.	85.	295.8	46.1	0.0	0.000E+00	0.000E+00	1.003E-06
F	7.0	3.74	10000.	67.	85.	295.8	46.1	0.0	0.000E+00	0.000E+00	6.017E-07
F	10.3	3.68	10000.	67.	85.	295.8	46.1	0.0	0.000E+00	0.000E+00	4.066E-07
F	13.4	0.48	10000.	67.	85.	295.8	46.1	0.0	0.000E+00	0.000E+00	3.134E-07

G	2.0	0.37	90000.	67.	85.	1000.0	46.0	0.0	0.000E+00	0.000E+00	6.316E-07
G	4.2	0.93	90000.	67.	85.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.947E-07
G	7.0	1.17	90000.	67.	85.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.768E-07
G	10.3	1.04	90000.	67.	85.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.195E-07
G	13.4	0.05	90000.	67.	85.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.210E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

ESE SECTOR BOUNDARY DISTANCE = 7300.0 METERS
BUILDING WAKE CREDIT IS NOT INCLUDED.
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

2.350E-05	1.881E-05	1.504E-05	3.357E-06	2.687E-06	2.149E-06	1.567E-06	1.254E-06	1.003E-06	9.399E-07
0.007	0.009	0.018	0.979	1.993	2.740	6.423	9.012	10.774	20.222
0.00060	0.00080	0.00155	0.08552	0.17416	0.23947	0.56136	0.78761	0.94156	1.76727
7.524E-07	6.351E-07	6.316E-07	6.017E-07	5.084E-07	4.895E-07	4.066E-07	3.919E-07	3.437E-07	3.134E-07
29.697	45.258	45.632	49.368	67.358	70.320	74.004	85.961	86.094	86.575
2.59532	3.95518	3.98784	4.31439	5.88651	6.14542	6.46731	7.51228	7.52394	7.56593
2.947E-07	2.136E-07	2.062E-07	1.768E-07	1.710E-07	1.393E-07	1.195E-07	1.074E-07	1.037E-07	9.210E-08
87.509	87.829	88.523	89.697	93.728	95.302	96.343	97.144	97.224	97.278
7.64757	7.67556	7.73620	7.83883	8.19104	8.32866	8.41963	8.48961	8.49660	8.50127
6.219E-08	5.076E-08	4.686E-08	4.202E-08	3.430E-08	3.239E-08	2.644E-08	1.413E-08	1.154E-08	
97.518	97.758	98.479	99.012	99.253	99.626	99.680	99.867	100.000	
8.52226	8.54326	8.60623	8.65288	8.67388	8.70653	8.71120	8.72752	8.73919	

BELOW IS PRINTED THE MAXIMUM VALUE OF CHI/Q AND THE DISTANCE IN METERS FROM THE STACK AT WHICH THE VALUE OCCURRED.
THIS DISTANCE MAY BE WITHIN THE SITE BOUNDARY.

CHI/Q = 2.350E-05 DISTANCE = 7300.000

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 1.765
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 3.952

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HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 4)=   5.883
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 5)=   6.142
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 6)=   7.508
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 7)=   8.187
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 8)=   8.325
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K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
14	1	-10.65860	-16.85747	-1.41580
14	2	-13.87747	-16.24515	-1.12488
14	3	-14.26952	-16.30888	-1.16117
14	4	-14.49200	-17.21737	-1.74179
14	5	-14.52980	-17.82863	-2.13793
14	6	-14.75228	-40.49491	-17.89008
14	7	-15.58156	-47.14008	-22.66192
14	8	-15.78646	NUMXQ(K)= 8	

4.015E-06	0.087	1.000
2.487E-06	0.262	3.000
1.956E-06	0.437	5.000
1.382E-06	0.874	10.000
1.112E-06	1.311	15.000
9.459E-07	1.748	20.000
8.519E-07	2.185	25.000
7.808E-07	2.622	30.000
7.239E-07	3.059	35.000
6.768E-07	3.496	40.000
6.370E-07	3.933	45.000
6.016E-07	4.370	50.000
5.707E-07	4.807	55.000
5.434E-07	5.244	60.000
5.190E-07	5.680	65.000
4.915E-07	6.117	70.000
4.563E-07	6.554	75.000
4.249E-07	6.991	80.000
3.969E-07	7.428	85.000
2.529E-07	7.865	90.000
1.832E-06	0.5	5.72

ANNUAL AVERAGE = 2.38E-08

K= 14 FIVEXQ(K)= 1.832E-06 FIVEPR(K)= 5.721

FUMIGATION X/Q AT THE BOUNDARY: 1.05E-05

EXPONENTIAL TERM AND FREQUENCIES

9.964E-01	9.961E-01	9.742E-01	7.443E-01	4.488E-01	1.802E-01	1.786E-01
0.667	2.082	6.005	53.063	86.006	96.423	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE SE SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 152.4 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	6.2	0.04	7300.	43.	109.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	5.064E-08
A	9.2	0.06	7300.	43.	109.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	3.422E-08
A	27.5	0.02	7300.	43.	109.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	1.151E-08
B	3.7	0.08	7300.	43.	109.	848.1	962.0	0.0	0.000E+00	0.000E+00	1.034E-07
B	6.2	0.04	7300.	43.	109.	848.1	962.0	0.0	0.000E+00	0.000E+00	6.204E-08
B	9.2	0.19	7300.	43.	109.	848.1	962.0	0.0	0.000E+00	0.000E+00	4.192E-08
B	12.0	0.08	7300.	43.	109.	848.1	962.0	0.0	0.000E+00	0.000E+00	3.231E-08
C	3.7	0.06	7300.	43.	109.	644.0	373.7	0.0	0.000E+00	0.000E+00	3.380E-07
C	6.2	0.55	7300.	43.	109.	644.0	373.7	0.0	0.000E+00	0.000E+00	2.028E-07
C	9.2	0.74	7300.	43.	109.	644.0	373.7	0.0	0.000E+00	0.000E+00	1.370E-07
C	12.0	0.59	7300.	43.	109.	644.0	373.7	0.0	0.000E+00	0.000E+00	1.056E-07
C	27.5	0.13	7300.	43.	109.	644.0	373.7	0.0	0.000E+00	0.000E+00	4.609E-08
D	0.2	0.00	7300.	43.	109.	453.5	111.1	0.0	0.000E+00	0.000E+00	1.557E-05
D	1.7	0.76	7300.	43.	109.	453.5	111.1	0.0	0.000E+00	0.000E+00	2.224E-06
D	3.7	4.10	7300.	43.	109.	453.5	111.1	0.0	0.000E+00	0.000E+00	1.038E-06
D	6.2	11.52	7300.	43.	109.	453.5	111.1	0.0	0.000E+00	0.000E+00	6.227E-07
D	9.2	22.08	7300.	43.	109.	453.5	111.1	0.0	0.000E+00	0.000E+00	4.207E-07
D	12.0	11.54	7300.	43.	109.	453.5	111.1	0.0	0.000E+00	0.000E+00	3.243E-07
D	27.5	3.91	7300.	43.	109.	453.5	111.1	0.0	0.000E+00	0.000E+00	1.415E-07
E	0.3	0.01	7300.	43.	109.	322.5	67.5	0.0	0.000E+00	0.000E+00	1.406E-05
E	2.0	0.83	7300.	43.	109.	322.5	67.5	0.0	0.000E+00	0.000E+00	2.009E-06
E	4.2	3.61	7300.	43.	109.	322.5	67.5	0.0	0.000E+00	0.000E+00	9.374E-07
E	7.0	11.03	7300.	43.	109.	322.5	67.5	0.0	0.000E+00	0.000E+00	5.624E-07
E	10.3	13.83	7300.	43.	109.	322.5	67.5	0.0	0.000E+00	0.000E+00	3.800E-07
E	13.4	1.89	7300.	43.	109.	322.5	67.5	0.0	0.000E+00	0.000E+00	2.929E-07
E	30.7	0.13	7300.	43.	109.	322.5	67.5	0.0	0.000E+00	0.000E+00	1.278E-07
F	0.3	0.01	20000.	43.	109.	553.1	58.7	0.0	0.000E+00	0.000E+00	6.182E-06
F	2.0	0.55	20000.	43.	109.	553.1	58.7	0.0	0.000E+00	0.000E+00	8.832E-07
F	4.2	2.00	20000.	43.	109.	553.1	58.7	0.0	0.000E+00	0.000E+00	4.121E-07
F	7.0	3.78	20000.	43.	109.	553.1	58.7	0.0	0.000E+00	0.000E+00	2.473E-07
F	10.3	1.91	20000.	43.	109.	553.1	58.7	0.0	0.000E+00	0.000E+00	1.671E-07
G	2.0	0.28	90000.	43.	109.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.093E-07
G	4.2	1.49	90000.	43.	109.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.768E-08

G	7.0	1.95	90000.	43.	109.	1000.0	46.0	0.0	0.000E+00	0.000E+00	5.861E-08
G	10.3	0.19	90000.	43.	109.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.960E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

SE SECTOR BOUNDARY DISTANCE = 7300.0 METERS
BUILDING WAKE CREDIT IS NOT INCLUDED.
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.557E-05	1.406E-05	6.182E-06	2.224E-06	2.009E-06	1.038E-06	9.374E-07	8.832E-07	6.227E-07	5.624E-07
0.002	0.008	0.014	0.779	1.607	5.708	9.320	9.872	21.388	32.415
0.00019	0.00084	0.00154	0.08551	0.17648	0.62665	1.02318	1.08383	2.34806	3.55864
4.207E-07	4.121E-07	3.800E-07	3.380E-07	3.243E-07	2.929E-07	2.473E-07	2.093E-07	2.028E-07	1.671E-07
54.490	56.487	70.319	70.382	81.919	83.810	87.592	87.868	88.421	90.333
5.98213	6.20139	7.71986	7.72686	8.99342	9.20101	9.61620	9.64653	9.70717	9.91710
1.415E-07	1.370E-07	1.278E-07	1.056E-07	1.034E-07	9.768E-08	6.204E-08	5.861E-08	5.064E-08	4.609E-08
94.242	94.986	95.113	95.708	95.793	97.280	97.323	99.278	99.320	99.448
10.34628	10.42792	10.44192	10.50723	10.51656	10.67984	10.68450	10.89909	10.90376	10.91775
4.192E-08	3.960E-08	3.422E-08	3.231E-08	1.151E-08					
99.639	99.830	99.894	99.979	100.000					
10.93875	10.95974	10.96673	10.97606	10.97840					

BELOW IS PRINTED THE MAXIMUM VALUE OF CHI/Q AND THE DISTANCE IN METERS FROM THE STACK AT WHICH THE VALUE OCCURRED.
THIS DISTANCE MAY BE WITHIN THE SITE BOUNDARY.

CHI/Q = 1.667E-05 DISTANCE = 5000.000

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 5.978
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 8.990

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HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 6)=   9.613
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 7)=  10.425
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 8)=  10.677
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  K  I   XQSAVE(K,I)  XQINT(K,I) XQSLOP(K,I)
 15  1     -11.07039 -12.54937  -0.31996
 15  2     -11.17214 -16.66923  -1.27709
 15  3     -14.68131 -15.87962  -0.76982
 15  4     -14.78306 -17.50198  -1.90878
 15  5     -14.94160 -24.65251  -7.23953
 15  6     -15.21271 -31.86936 -12.77423
 15  7     -15.80320 -46.61663 -24.49982
 15  8     -16.14160     NUMXQ(K)=  8
    2.880E-06              0.110              1.000
    1.853E-06              0.329              3.000
    1.484E-06              0.549              5.000
    1.076E-06              1.098             10.000
    8.787E-07              1.647             15.000
    7.558E-07              2.196             20.000
    6.693E-07              2.745             25.000
    6.040E-07              3.294             30.000
    5.523E-07              3.842             35.000
    5.100E-07              4.391             40.000
    4.746E-07              4.940             45.000
    4.444E-07              5.489             50.000
    4.192E-07              6.038             55.000
    4.051E-07              6.587             60.000
    3.924E-07              7.136             65.000
    3.807E-07              7.685             70.000
    3.557E-07              8.234             75.000
    3.325E-07              8.783             80.000
    2.794E-07              9.332             85.000
    2.032E-07              9.881             90.000

    1.547E-06              0.5                4.55

ANNUAL AVERAGE =   2.24E-08

K= 15     FIVEXQ(K)= 1.547E-06     FIVEPR(K)= 4.554

FUMIGATION X/Q AT THE BOUNDARY:   8.19E-06

 EXPONENTIAL TERM AND FREQUENCIES

   9.940E-01   9.936E-01   9.581E-01   6.159E-01   2.686E-01   1.763E-01   5.918E-02
       0.127       0.531       2.613      56.517      87.841      96.091     100.000
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE SSE SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 152.4 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	3.7	0.02	7300.	43.	109.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	8.440E-08
A	6.2	0.17	7300.	43.	109.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	5.064E-08
A	9.2	0.32	7300.	43.	109.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	3.422E-08
A	12.0	0.02	7300.	43.	109.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	2.638E-08
A	27.5	0.02	7300.	43.	109.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	1.151E-08
B	3.7	0.06	7300.	43.	109.	848.1	962.0	0.0	0.000E+00	0.000E+00	1.034E-07
B	6.2	0.48	7300.	43.	109.	848.1	962.0	0.0	0.000E+00	0.000E+00	6.204E-08
B	9.2	0.71	7300.	43.	109.	848.1	962.0	0.0	0.000E+00	0.000E+00	4.192E-08
B	12.0	0.11	7300.	43.	109.	848.1	962.0	0.0	0.000E+00	0.000E+00	3.231E-08
C	3.7	0.48	7300.	43.	109.	644.0	373.7	0.0	0.000E+00	0.000E+00	3.380E-07
C	6.2	2.16	7300.	43.	109.	644.0	373.7	0.0	0.000E+00	0.000E+00	2.028E-07
C	9.2	2.01	7300.	43.	109.	644.0	373.7	0.0	0.000E+00	0.000E+00	1.370E-07
C	12.0	0.37	7300.	43.	109.	644.0	373.7	0.0	0.000E+00	0.000E+00	1.056E-07
D	0.2	0.00	7300.	43.	109.	453.5	111.1	0.0	0.000E+00	0.000E+00	1.557E-05
D	1.7	1.08	7300.	43.	109.	453.5	111.1	0.0	0.000E+00	0.000E+00	2.224E-06
D	3.7	8.31	7300.	43.	109.	453.5	111.1	0.0	0.000E+00	0.000E+00	1.038E-06
D	6.2	20.04	7300.	43.	109.	453.5	111.1	0.0	0.000E+00	0.000E+00	6.227E-07
D	9.2	19.82	7300.	43.	109.	453.5	111.1	0.0	0.000E+00	0.000E+00	4.207E-07
D	12.0	5.23	7300.	43.	109.	453.5	111.1	0.0	0.000E+00	0.000E+00	3.243E-07
D	27.5	1.36	7300.	43.	109.	453.5	111.1	0.0	0.000E+00	0.000E+00	1.415E-07
E	0.3	0.01	7300.	43.	109.	322.5	67.5	0.0	0.000E+00	0.000E+00	1.406E-05
E	2.0	0.73	7300.	43.	109.	322.5	67.5	0.0	0.000E+00	0.000E+00	2.009E-06
E	4.2	4.38	7300.	43.	109.	322.5	67.5	0.0	0.000E+00	0.000E+00	9.374E-07
E	7.0	11.10	7300.	43.	109.	322.5	67.5	0.0	0.000E+00	0.000E+00	5.624E-07
E	10.3	10.11	7300.	43.	109.	322.5	67.5	0.0	0.000E+00	0.000E+00	3.800E-07
E	13.4	0.93	7300.	43.	109.	322.5	67.5	0.0	0.000E+00	0.000E+00	2.929E-07
E	30.7	0.22	7300.	43.	109.	322.5	67.5	0.0	0.000E+00	0.000E+00	1.278E-07
F	0.3	0.01	20000.	43.	109.	553.1	58.7	0.0	0.000E+00	0.000E+00	6.182E-06
F	2.0	0.48	20000.	43.	109.	553.1	58.7	0.0	0.000E+00	0.000E+00	8.832E-07
F	4.2	2.09	20000.	43.	109.	553.1	58.7	0.0	0.000E+00	0.000E+00	4.121E-07
F	7.0	2.72	20000.	43.	109.	553.1	58.7	0.0	0.000E+00	0.000E+00	2.473E-07
F	10.3	0.69	20000.	43.	109.	553.1	58.7	0.0	0.000E+00	0.000E+00	1.671E-07
F	13.4	0.11	20000.	43.	109.	553.1	58.7	0.0	0.000E+00	0.000E+00	1.288E-07

G	2.0	0.41	90000.	43.	109.	1000.0	46.0	0.0	0.000E+00	0.000E+00	2.093E-07
G	4.2	1.27	90000.	43.	109.	1000.0	46.0	0.0	0.000E+00	0.000E+00	9.768E-08
G	7.0	1.84	90000.	43.	109.	1000.0	46.0	0.0	0.000E+00	0.000E+00	5.861E-08
G	10.3	0.11	90000.	43.	109.	1000.0	46.0	0.0	0.000E+00	0.000E+00	3.960E-08
G	30.7	0.02	90000.	43.	109.	1000.0	46.0	0.0	0.000E+00	0.000E+00	1.332E-08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

SSE SECTOR BOUNDARY DISTANCE = 7300.0 METERS
BUILDING WAKE CREDIT IS NOT INCLUDED.
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.557E-05	1.406E-05	6.182E-06	2.224E-06	2.009E-06	1.038E-06	9.374E-07	8.832E-07	6.227E-07	5.624E-07
0.002	0.008	0.013	1.093	1.827	10.141	14.525	15.000	35.041	46.141
0.00026	0.00083	0.00142	0.11805	0.19735	1.09537	1.56888	1.62019	3.78478	4.98369
4.207E-07	4.121E-07	3.800E-07	3.380E-07	3.243E-07	2.929E-07	2.473E-07	2.093E-07	2.028E-07	1.671E-07
65.966	68.060	78.167	78.642	83.868	84.797	87.518	87.928	90.088	90.779
7.12495	7.35120	8.44283	8.49414	9.05861	9.15891	9.45281	9.49713	9.73038	9.80502
1.415E-07	1.370E-07	1.288E-07	1.278E-07	1.056E-07	1.034E-07	9.768E-08	8.440E-08	6.204E-08	5.861E-08
92.139	94.148	94.256	94.472	94.839	94.903	96.178	96.199	96.674	98.510
9.95197	10.16890	10.18056	10.20388	10.24354	10.25053	10.38815	10.39049	10.44180	10.64007
5.064E-08	4.192E-08	3.960E-08	3.422E-08	3.231E-08	2.638E-08	1.332E-08	1.151E-08		
98.683	99.395	99.503	99.827	99.935	99.957	99.978	100.000		
10.65873	10.73570	10.74736	10.78235	10.79401	10.79634	10.79868	10.80101		

BELOW IS PRINTED THE MAXIMUM VALUE OF CHI/Q AND THE DISTANCE IN METERS FROM THE STACK AT WHICH THE VALUE OCCURRED.
THIS DISTANCE MAY BE WITHIN THE SITE BOUNDARY.

CHI/Q = 2.070E-05 DISTANCE = 4000.000

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 4.980
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 8.439

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HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 5)=   9.055
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 6)=   9.449
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 7)=   9.727
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 8)=  10.166
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 9)=  10.385

 K  I   XQSAVE(K,I)  XQINT(K,I) XQSLOP(K,I)
16  1     -11.07039 -12.94662  -0.41201
16  2     -11.17214 -16.38376  -1.21007
16  3     -14.39102 -16.77623  -1.44840
16  4     -14.78306 -20.41233  -4.09068
16  5     -14.94160 -30.18060 -11.39479
16  6     -15.21271 -31.18759 -12.16139
16  7     -15.41115 -35.67481 -15.62040
16  8     -15.80320 -50.93329 -27.61458
16  9     -16.14160     NUMXQ(K)=  9
  3.138E-06              0.108              1.000
  2.068E-06              0.324              3.000
  1.677E-06              0.540              5.000
  1.236E-06              1.080             10.000
  1.021E-06              1.620             15.000
  8.858E-07              2.160             20.000
  7.896E-07              2.700             25.000
  7.166E-07              3.240             30.000
  6.585E-07              3.780             35.000
  6.108E-07              4.320             40.000
  5.707E-07              4.860             45.000
  5.313E-07              5.401             50.000
  4.961E-07              5.941             55.000
  4.653E-07              6.481             60.000
  4.382E-07              7.021             65.000
  4.142E-07              7.561             70.000
  3.926E-07              8.101             75.000
  3.608E-07              8.641             80.000
  2.979E-07              9.181             85.000
  2.041E-07              9.721             90.000

  1.732E-06              0.5                4.63

ANNUAL AVERAGE =   2.63E-08

K= 16     FIVEXQ(K)= 1.732E-06     FIVEPR(K)= 4.629

FUMIGATION X/Q AT THE BOUNDARY:   8.19E-06

 EXPONENTIAL TERM AND FREQUENCIES

  9.940E-01   9.936E-01   9.581E-01   6.159E-01   2.686E-01   1.763E-01   5.918E-02
      0.561       1.922       6.932      62.780      90.255      96.350     100.000
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE ALL SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 152.4 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.7	0.01	90000.	128.	24.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	1.819E-07
A	3.7	0.51	90000.	128.	24.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	8.488E-08
A	6.2	0.53	90000.	128.	24.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	5.093E-08
A	9.2	0.28	90000.	128.	24.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	3.441E-08
A	12.0	0.06	90000.	128.	24.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	2.653E-08
A	27.5	0.03	90000.	128.	24.	1000.0	1000.0	0.0	0.000E+00	0.000E+00	1.157E-08
B	1.7	0.05	7300.	118.	34.	848.1	962.0	0.0	0.000E+00	0.000E+00	2.228E-07
B	3.7	0.47	7300.	118.	34.	848.1	962.0	0.0	0.000E+00	0.000E+00	1.040E-07
B	6.2	0.54	7300.	118.	34.	848.1	962.0	0.0	0.000E+00	0.000E+00	6.240E-08
B	9.2	0.44	7300.	118.	34.	848.1	962.0	0.0	0.000E+00	0.000E+00	4.216E-08
B	12.0	0.12	7300.	118.	34.	848.1	962.0	0.0	0.000E+00	0.000E+00	3.250E-08
B	27.5	0.03	7300.	118.	34.	848.1	962.0	0.0	0.000E+00	0.000E+00	1.418E-08
C	1.7	0.08	7300.	118.	34.	644.0	373.7	0.0	0.000E+00	0.000E+00	7.528E-07
C	3.7	0.77	7300.	118.	34.	644.0	373.7	0.0	0.000E+00	0.000E+00	3.513E-07
C	6.2	1.33	7300.	118.	34.	644.0	373.7	0.0	0.000E+00	0.000E+00	2.108E-07
C	9.2	1.04	7300.	118.	34.	644.0	373.7	0.0	0.000E+00	0.000E+00	1.424E-07
C	12.0	0.30	7300.	118.	34.	644.0	373.7	0.0	0.000E+00	0.000E+00	1.098E-07
C	27.5	0.13	7300.	118.	34.	644.0	373.7	0.0	0.000E+00	0.000E+00	4.790E-08
D	0.2	0.00	7300.	118.	34.	453.5	111.1	0.0	0.000E+00	0.000E+00	2.410E-05
D	1.7	2.07	7300.	118.	34.	453.5	111.1	0.0	0.000E+00	0.000E+00	3.444E-06
D	3.7	9.39	7300.	118.	34.	453.5	111.1	0.0	0.000E+00	0.000E+00	1.607E-06
D	6.2	15.72	7300.	118.	34.	453.5	111.1	0.0	0.000E+00	0.000E+00	9.642E-07
D	9.2	12.23	7300.	118.	34.	453.5	111.1	0.0	0.000E+00	0.000E+00	6.515E-07
D	12.0	4.24	7300.	118.	34.	453.5	111.1	0.0	0.000E+00	0.000E+00	5.022E-07
D	27.5	1.39	7300.	118.	34.	453.5	111.1	0.0	0.000E+00	0.000E+00	2.191E-07
E	0.3	0.01	7300.	118.	34.	322.5	67.5	0.0	0.000E+00	0.000E+00	4.604E-05
E	2.0	1.97	7300.	118.	34.	322.5	67.5	0.0	0.000E+00	0.000E+00	6.578E-06
E	4.2	8.90	7300.	118.	34.	322.5	67.5	0.0	0.000E+00	0.000E+00	3.070E-06
E	7.0	13.85	7300.	118.	34.	322.5	67.5	0.0	0.000E+00	0.000E+00	1.842E-06
E	10.3	9.53	7300.	118.	34.	322.5	67.5	0.0	0.000E+00	0.000E+00	1.244E-06
E	13.4	1.29	7300.	118.	34.	322.5	67.5	0.0	0.000E+00	0.000E+00	9.592E-07
E	30.7	0.23	7300.	118.	34.	322.5	67.5	0.0	0.000E+00	0.000E+00	4.186E-07
F	0.3	0.01	8000.	128.	24.	241.8	42.4	0.0	0.000E+00	0.000E+00	9.416E-05
F	2.0	1.01	8000.	128.	24.	241.8	42.4	0.0	0.000E+00	0.000E+00	1.345E-05

F	4.2	3.14	8000.	128.	24.	241.8	42.4	0.0	0.000E+00	0.000E+00	6.277E-06
F	7.0	3.52	8000.	128.	24.	241.8	42.4	0.0	0.000E+00	0.000E+00	3.766E-06
F	10.3	1.55	8000.	128.	24.	241.8	42.4	0.0	0.000E+00	0.000E+00	2.545E-06
F	13.4	0.16	8000.	128.	24.	241.8	42.4	0.0	0.000E+00	0.000E+00	1.962E-06
F	30.7	0.01	8000.	128.	24.	241.8	42.4	0.0	0.000E+00	0.000E+00	8.560E-07
G	2.0	0.43	8000.	128.	24.	166.9	25.6	0.0	0.000E+00	0.000E+00	2.419E-05
G	4.2	1.17	8000.	128.	24.	166.9	25.6	0.0	0.000E+00	0.000E+00	1.129E-05
G	7.0	1.14	8000.	128.	24.	166.9	25.6	0.0	0.000E+00	0.000E+00	6.772E-06
G	10.3	0.31	8000.	128.	24.	166.9	25.6	0.0	0.000E+00	0.000E+00	4.576E-06
G	13.4	0.01	8000.	128.	24.	166.9	25.6	0.0	0.000E+00	0.000E+00	3.527E-06
G	30.7	0.00	8000.	128.	24.	166.9	25.6	0.0	0.000E+00	0.000E+00	1.539E-06

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:
DIRECTION-INDEPENDENT (S.R.P 2.3.4) MODEL.
MINIMUM BOUNDARY DISTANCE = 7300.0 METERS.
BUILDING WAKE CREDIT IS NOT INCLUDED.
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

9.416E-05	4.604E-05	2.419E-05	2.410E-05	1.345E-05	1.129E-05	6.772E-06	6.578E-06	6.277E-06	4.576E-06
0.012	0.026	0.460	0.464	1.474	2.647	3.783	5.750	8.892	9.199
0.01166	0.02566	0.45951	0.46417	1.47416	2.64742	3.78335	5.74967	8.89158	9.19948
3.766E-06	3.527E-06	3.444E-06	3.070E-06	2.545E-06	1.962E-06	1.842E-06	1.607E-06	1.539E-06	1.244E-06
12.717	12.726	14.793	23.689	25.243	25.404	39.249	48.640	48.645	58.171
12.71692	12.72625	14.79287	23.68912	25.24258	25.40352	39.24939	48.64013	48.64480	58.17083
9.642E-07	9.592E-07	8.560E-07	7.528E-07	6.515E-07	5.022E-07	4.186E-07	3.513E-07	2.228E-07	2.191E-07
73.890	75.184	75.196	75.273	87.502	91.743	91.971	92.736	92.783	94.171
73.88971	75.18427	75.19593	75.27290	87.50233	91.74286	91.97144	92.73651	92.78316	94.17102
2.108E-07	1.819E-07	1.424E-07	1.098E-07	1.040E-07	8.488E-08	6.240E-08	5.093E-08	4.790E-08	4.216E-08
95.501	95.508	96.550	96.853	97.325	97.838	98.381	98.913	99.039	99.480
95.50056	95.50755	96.55020	96.85343	97.32460	97.83775	98.38123	98.91305	99.03900	99.47985
3.441E-08	3.250E-08	2.653E-08	1.418E-08	1.157E-08					
99.757	99.879	99.937	99.972	100.000					
99.75742	99.87872	99.93703	99.97202	100.00000					

BELOW IS PRINTED THE MAXIMUM VALUE OF CHI/Q AND THE DISTANCE IN METERS FROM THE STACK AT WHICH THE VALUE OCCURRED.
THIS DISTANCE MAY BE WITHIN THE SITE BOUNDARY.

CHI/Q = 9.416E-05 DISTANCE = 8000.000

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED
CHI/Q WITH RESPECT TO WHEN THE WIND BLOWS

SEC/CUBIC METER THE TOTAL TIME INTO THIS SECTOR ONLY

ERROR IN NORMAL TRANSFORMATION FOR A(45)= 100.00000
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 8.888

1.956E-05	1.000	1.000
1.166E-05	3.000	3.000
8.867E-06	5.000	5.000
5.862E-06	10.000	10.000
4.545E-06	15.000	15.000
3.713E-06	20.000	20.000
3.122E-06	25.000	25.000
2.671E-06	30.000	30.000
2.312E-06	35.000	35.000
2.017E-06	40.000	40.000
1.767E-06	45.000	45.000
1.568E-06	50.000	50.000
1.432E-06	55.000	55.000
1.306E-06	60.000	60.000
1.187E-06	65.000	65.000
1.074E-06	70.000	70.000
9.633E-07	75.000	75.000
8.400E-07	80.000	80.000
7.156E-07	85.000	85.000
5.643E-07	90.000	90.000
8.867E-06	5.0	5.00

K= 17 FIVEXQ(K)= 8.867E-06 FIVEPR(K)= 5.000

FUMIGATION X/Q AT THE BOUNDARY: 7.33E-06

EXPONENTIAL TERM AND FREQUENCIES

9.997E-01	9.994E-01	9.958E-01	9.538E-01	8.795E-01	8.474E-01	6.339E-01
1.416	3.074	6.718	51.756	87.528	96.935	100.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

FIVE PERCENT OVERALL SITE LIMIT
BUILDING WAKE CREDIT IS NOT INCLUDED.
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.047E-04	7.311E-05	6.213E-05	5.167E-05	4.904E-05	4.297E-05	4.048E-05	3.782E-05	3.220E-05	3.179E-05
0.001	0.001	0.003	0.003	0.004	0.005	0.007	0.008	0.011	0.014
0.00059	0.00121	0.00267	0.00329	0.00388	0.00505	0.00707	0.00807	0.01065	0.01354
2.632E-05	2.619E-05	2.467E-05	2.350E-05	2.350E-05	2.299E-05	2.242E-05	2.103E-05	2.091E-05	1.958E-05
0.039	0.040	0.041	0.041	0.042	0.043	0.044	0.044	0.045	0.046
0.03920	0.04020	0.04076	0.04098	0.04247	0.04334	0.04379	0.04426	0.04499	0.04560
1.924E-05	1.881E-05	1.847E-05	1.802E-05	1.721E-05	1.626E-05	1.581E-05	1.557E-05	1.504E-05	1.496E-05
0.046	0.047	0.048	0.048	0.048	0.048	0.049	0.050	0.051	0.103
0.04644	0.04671	0.04771	0.04802	0.04833	0.04846	0.04936	0.04981	0.05146	0.10277
1.406E-05	1.228E-05	1.172E-05	1.044E-05	9.908E-06	8.984E-06	8.875E-06	7.382E-06	7.370E-06	7.219E-06
0.104	0.155	0.156	0.209	0.249	0.250	0.376	0.429	0.439	0.440
0.10398	0.15530	0.15581	0.20946	0.24911	0.24981	0.37577	0.42942	0.43875	0.43955
7.006E-06	6.980E-06	6.365E-06	6.182E-06	6.139E-06	5.782E-06	5.403E-06	4.874E-06	4.624E-06	4.600E-06
0.524	0.603	0.635	0.637	0.800	1.085	1.225	1.537	1.616	1.840
0.52353	0.60283	0.63549	0.63678	0.80006	1.08462	1.22458	1.53713	1.61644	1.84036
4.541E-06	4.188E-06	4.142E-06	4.048E-06	3.742E-06	3.524E-06	3.445E-06	3.357E-06	3.357E-06	3.284E-06
2.246	2.277	2.533	2.545	2.685	2.937	3.058	3.154	3.363	3.746
2.24622	2.27654	2.53312	2.54478	2.68474	2.93665	3.05794	3.15357	3.36350	3.74603
3.269E-06	3.203E-06	3.004E-06	2.988E-06	2.970E-06	2.924E-06	2.865E-06	2.830E-06	2.797E-06	2.774E-06
4.096	4.297	4.506	4.609	4.719	5.022	6.037	6.039	6.307	6.330
4.09591	4.29651	4.50644	4.60907	4.71870	5.02193	6.03657	6.03891	6.30715	6.33047
2.749E-06	2.698E-06	2.687E-06	2.638E-06	2.574E-06	2.522E-06	2.485E-06	2.459E-06	2.322E-06	2.259E-06
6.403	7.718	7.842	7.982	8.117	8.584	8.714	8.852	8.913	9.039
6.40278	7.71832	7.84195	7.98190	8.11719	8.58369	8.71431	8.85193	8.91258	9.03854
2.224E-06	2.149E-06	2.146E-06	2.119E-06	2.067E-06	2.009E-06	1.976E-06	1.962E-06	1.889E-06	1.875E-06
9.239	9.381	10.284	12.411	12.467	12.638	12.740	13.104	13.118	13.123

9.23913	9.38142	10.28410	12.41136	12.46735	12.63762	12.74025	13.10412	13.11812	13.12278
1.782E-06	1.746E-06	1.719E-06	1.679E-06	1.675E-06	1.645E-06	1.628E-06	1.619E-06	1.567E-06	1.567E-06
13.146	13.806	15.884	15.901	15.945	16.500	16.556	17.606	18.306	19.064
13.14611	13.80621	15.88449	15.90082	15.94514	16.50028	16.55626	17.60589	18.30565	19.06372
1.532E-06	1.513E-06	1.495E-06	1.402E-06	1.397E-06	1.394E-06	1.325E-06	1.305E-06	1.288E-06	1.283E-06
20.638	21.238	21.947	23.321	23.325	23.708	23.768	24.783	25.592	25.653
20.63817	21.23763	21.94672	23.32058	23.32524	23.70778	23.76842	24.78307	25.59246	25.65310
1.283E-06	1.271E-06	1.254E-06	1.231E-06	1.204E-06	1.201E-06	1.161E-06	1.147E-06	1.133E-06	1.094E-06
25.732	28.937	29.462	30.010	30.013	30.505	31.708	32.478	32.483	32.737
25.73241	28.93730	29.46212	30.01026	30.01259	30.50476	31.70834	32.47807	32.48274	32.73698
1.084E-06	1.054E-06	1.048E-06	1.038E-06	1.031E-06	1.022E-06	1.022E-06	1.003E-06	9.869E-07	9.400E-07
33.066	33.469	33.845	35.193	35.263	35.410	35.429	35.856	36.441	38.092
33.06587	33.46939	33.84493	35.19313	35.26311	35.41006	35.42872	35.85557	36.44104	38.09246
9.399E-07	9.374E-07	9.194E-07	8.968E-07	8.952E-07	8.832E-07	8.702E-07	8.591E-07	8.432E-07	8.411E-07
39.611	40.481	42.244	42.963	43.112	43.224	43.387	44.808	44.854	47.602
39.61094	40.48097	42.24436	42.96278	43.11206	43.22402	43.38730	44.80781	44.85446	47.60217
8.365E-07	7.977E-07	7.880E-07	7.832E-07	7.816E-07	7.696E-07	7.598E-07	7.543E-07	7.524E-07	7.496E-07
48.071	48.101	48.150	48.922	49.011	49.041	49.221	49.249	50.569	50.604
48.07101	48.10133	48.15031	48.92238	49.01101	49.04134	49.22094	49.24893	50.56914	50.60413
7.390E-07	7.387E-07	7.336E-07	7.208E-07	7.079E-07	6.885E-07	6.708E-07	6.668E-07	6.622E-07	6.502E-07
50.606	51.462	51.474	52.288	52.423	53.639	53.646	53.844	53.956	54.658
50.60646	51.46249	51.47416	52.28821	52.42350	53.63874	53.64574	53.84400	53.95596	54.65805
6.351E-07	6.351E-07	6.325E-07	6.316E-07	6.227E-07	6.212E-07	6.059E-07	6.017E-07	5.990E-07	5.683E-07
55.782	57.774	58.696	58.770	62.199	62.731	63.057	63.797	64.028	64.984
55.78233	57.77431	58.69566	58.77029	62.19910	62.73092	63.05748	63.79689	64.02781	64.98415
5.652E-07	5.624E-07	5.457E-07	5.292E-07	5.140E-07	5.084E-07	4.991E-07	4.916E-07	4.896E-07	4.895E-07
65.073	67.482	67.510	67.818	67.848	69.864	70.228	70.260	70.491	70.820
65.07278	67.48228	67.51028	67.81817	67.84849	69.86378	70.22766	70.26031	70.49123	70.82012
4.870E-07	4.813E-07	4.789E-07	4.697E-07	4.690E-07	4.671E-07	4.652E-07	4.559E-07	4.458E-07	4.393E-07
71.179	71.378	71.436	71.438	71.497	71.557	72.481	72.663	72.665	73.586
71.17933	71.37759	71.43591	71.43824	71.49655	71.55720	72.48088	72.66281	72.66515	73.58649
4.381E-07	4.357E-07	4.274E-07	4.207E-07	4.121E-07	4.079E-07	4.066E-07	3.919E-07	3.907E-07	3.847E-07
73.687	73.705	74.956	79.520	79.966	80.041	80.617	81.713	81.727	81.781
73.68680	73.70546	74.95570	79.52045	79.96596	80.04060	80.61673	81.71301	81.72701	81.78065
3.800E-07	3.762E-07	3.754E-07	3.723E-07	3.680E-07	3.594E-07	3.586E-07	3.520E-07	3.505E-07	3.498E-07
84.391	84.416	84.479	84.510	84.540	84.729	84.899	84.965	85.009	85.128
84.39075	84.41640	84.47939	84.50970	84.54003	84.72897	84.89924	84.96455	85.00887	85.12782
3.490E-07	3.471E-07	3.449E-07	3.439E-07	3.437E-07	3.424E-07	3.410E-07	3.393E-07	3.386E-07	3.380E-07
85.279	85.335	85.452	85.461	85.480	85.531	85.604	85.615	86.140	86.198
85.27943	85.33542	85.45204	85.46137	85.48003	85.53135	85.60366	85.61533	86.14014	86.19846

3.294E-07	3.243E-07	3.169E-07	3.134E-07	3.080E-07	2.947E-07	2.929E-07	2.890E-07	2.888E-07	2.694E-07
86.380	88.211	88.214	88.298	88.321	88.482	88.790	88.809	89.270	89.301
86.38039	88.21143	88.21376	88.29773	88.32106	88.48201	88.78990	88.80856	89.27039	89.30071
2.473E-07	2.428E-07	2.381E-07	2.294E-07	2.243E-07	2.234E-07	2.229E-07	2.227E-07	2.222E-07	2.220E-07
90.010	90.019	90.066	90.110	90.138	90.143	90.147	90.173	90.185	90.189
90.00980	90.01913	90.06579	90.11011	90.13810	90.14276	90.14742	90.17308	90.18475	90.18941
2.136E-07	2.136E-07	2.112E-07	2.103E-07	2.099E-07	2.094E-07	2.093E-07	2.090E-07	2.082E-07	2.069E-07
90.257	90.287	90.308	90.476	90.661	90.721	90.796	90.817	91.024	91.057
90.25705	90.28738	90.30837	90.47631	90.66058	90.72122	90.79586	90.81685	91.02444	91.05710
2.062E-07	2.054E-07	2.046E-07	2.038E-07	2.036E-07	2.028E-07	1.951E-07	1.912E-07	1.901E-07	1.872E-07
91.178	91.223	91.321	91.325	91.423	91.717	92.109	92.153	92.156	92.158
91.17839	91.22271	91.32068	91.32534	91.42331	91.71721	92.10907	92.15339	92.15572	92.15806
1.814E-07	1.780E-07	1.768E-07	1.755E-07	1.749E-07	1.710E-07	1.679E-07	1.671E-07	1.638E-07	1.565E-07
92.165	92.184	92.450	92.559	92.569	92.935	92.951	93.236	93.252	93.287
92.16505	92.18372	92.44962	92.55925	92.56858	92.93478	92.95111	93.23568	93.25201	93.28699
1.504E-07	1.478E-07	1.437E-07	1.427E-07	1.421E-07	1.418E-07	1.415E-07	1.415E-07	1.407E-07	1.398E-07
93.343	93.553	93.574	93.583	93.739	93.772	94.348	94.358	94.486	94.493
93.34297	93.55290	93.57390	93.58323	93.73951	93.77216	94.34830	94.35763	94.48591	94.49290
1.393E-07	1.388E-07	1.382E-07	1.376E-07	1.375E-07	1.370E-07	1.288E-07	1.278E-07	1.257E-07	1.195E-07
94.703	94.721	94.763	94.775	94.906	95.204	95.216	95.253	95.347	95.498
94.70284	94.72150	94.76348	94.77515	94.90577	95.20434	95.21600	95.25332	95.34662	95.49823
1.095E-07	1.091E-07	1.085E-07	1.078E-07	1.074E-07	1.070E-07	1.066E-07	1.060E-07	1.056E-07	1.053E-07
95.519	95.524	95.536	95.538	95.617	95.619	95.629	95.696	95.801	95.839
95.51923	95.52389	95.53555	95.53789	95.61720	95.61953	95.62886	95.69650	95.80146	95.83878
1.040E-07	1.040E-07	1.039E-07	1.039E-07	1.038E-07	1.037E-07	1.037E-07	1.036E-07	1.035E-07	1.035E-07
95.881	95.888	95.969	96.037	96.060	96.191	96.200	96.254	96.284	96.294
95.88077	95.88776	95.96940	96.03704	96.06036	96.19099	96.20032	96.25397	96.28429	96.29362
1.034E-07	9.768E-08	9.210E-08	8.488E-08	8.481E-08	8.478E-08	8.471E-08	8.464E-08	8.455E-08	8.451E-08
96.310	96.611	96.618	96.671	96.772	96.874	96.888	97.091	97.112	97.126
96.30994	96.61084	96.61784	96.67149	96.77178	96.87441	96.88840	97.09132	97.11232	97.12631
8.445E-08	8.440E-08	7.544E-08	7.117E-08	6.242E-08	6.238E-08	6.236E-08	6.234E-08	6.228E-08	6.223E-08
97.129	97.131	97.292	97.294	97.325	97.383	97.481	97.539	97.621	97.649
97.12865	97.13098	97.29192	97.29426	97.32458	97.38289	97.48086	97.53917	97.62080	97.64880
6.219E-08	6.216E-08	6.212E-08	6.207E-08	6.204E-08	5.861E-08	5.097E-08	5.093E-08	5.090E-08	5.088E-08
97.688	97.723	97.733	97.782	97.838	98.251	98.342	98.388	98.416	98.530
97.68845	97.72344	97.73277	97.78175	97.83773	98.25059	98.34155	98.38821	98.41620	98.53049
5.087E-08	5.083E-08	5.078E-08	5.076E-08	5.073E-08	5.067E-08	5.064E-08	4.779E-08	4.733E-08	4.686E-08
98.633	98.666	98.773	98.810	98.831	98.850	98.873	98.876	98.878	98.943
98.63313	98.66578	98.77308	98.81040	98.83140	98.85006	98.87338	98.87572	98.87805	98.94337

4.669E-08	4.650E-08	4.626E-08	4.609E-08	4.217E-08	4.215E-08	4.213E-08	4.212E-08	4.208E-08	4.204E-08
98.953	98.955	98.985	98.999	99.004	99.076	99.097	99.102	99.156	99.158
98.95270	98.95503	98.98535	98.99934	99.00401	99.07632	99.09731	99.10197	99.15562	99.15796
4.202E-08	4.200E-08	4.197E-08	4.194E-08	4.192E-08	3.960E-08	3.929E-08	3.441E-08	3.439E-08	3.438E-08
99.249	99.256	99.279	99.342	99.440	99.473	99.475	99.496	99.512	99.585
99.24893	99.25593	99.27925	99.34223	99.44020	99.47286	99.47520	99.49619	99.51252	99.58482
3.437E-08	3.434E-08	3.431E-08	3.430E-08	3.428E-08	3.426E-08	3.423E-08	3.422E-08	3.251E-08	3.249E-08
99.592	99.603	99.620	99.648	99.657	99.662	99.711	99.753	99.755	99.767
99.59182	99.60348	99.61980	99.64780	99.65713	99.66179	99.71077	99.75275	99.75509	99.76675
3.248E-08	3.247E-08	3.244E-08	3.239E-08	3.237E-08	3.235E-08	3.233E-08	3.231E-08	2.650E-08	2.649E-08
99.769	99.771	99.781	99.818	99.823	99.825	99.853	99.874	99.876	99.879
99.76909	99.77142	99.78075	99.81807	99.82273	99.82507	99.85306	99.87405	99.87639	99.87872
2.644E-08	2.642E-08	2.641E-08	2.639E-08	2.638E-08	1.715E-08	1.418E-08	1.413E-08	1.411E-08	1.332E-08
99.888	99.893	99.897	99.930	99.932	99.935	99.937	99.956	99.970	99.972
99.88805	99.89271	99.89737	99.93002	99.93236	99.93469	99.93703	99.95569	99.96968	99.97202
1.156E-08	1.154E-08	1.152E-08	1.151E-08						
99.974	99.991	99.995	100.000						
99.97435	99.99068	99.99534	100.00000						

BELOW IS PRINTED THE MAXIMUM VALUE OF CHI/Q AND THE DISTANCE IN METERS FROM THE STACK AT WHICH THE VALUE OCCURRED.
THIS DISTANCE MAY BE WITHIN THE SITE BOUNDARY.

CHI/Q = 9.416E-05 DISTANCE = 8000.000

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED

CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

ERROR IN NORMAL TRANSFORMATION FOR A(404)= 100.00000

HANDCHECK GRAPH:	SLOPE LT -1.0 FOR LOW PERCENTAGES.	XSAVE(2)=	0.003
HANDCHECK GRAPH:	SLOPE LT -1.0 FOR LOW PERCENTAGES.	XSAVE(3)=	0.040
HANDCHECK GRAPH:	SLOPE LT -1.0 FOR LOW PERCENTAGES.	XSAVE(4)=	0.043
HANDCHECK GRAPH:	SLOPE LT -1.0 FOR LOW PERCENTAGES.	XSAVE(5)=	0.048
HANDCHECK GRAPH:	SLOPE LT -1.0 FOR LOW PERCENTAGES.	XSAVE(7)=	0.375
HANDCHECK GRAPH:	SLOPE LT -1.0 FOR LOW PERCENTAGES.	XSAVE(8)=	1.083
HANDCHECK GRAPH:	SLOPE LT -1.0 FOR LOW PERCENTAGES.	XSAVE(10)=	3.743
HANDCHECK GRAPH:	SLOPE LT -1.0 FOR LOW PERCENTAGES.	XSAVE(15)=	8.580
HANDCHECK GRAPH:	SLOPE LT -1.0 FOR LOW PERCENTAGES.	XSAVE(17)=	15.885

ERROR IN SUBROUTINE ENVLOP

K	HIGHPR	PR	GRNDVT(K)
1	-3.30147	0.04809	6.21119
2	-3.34185	0.04162	3.52599
3	-2.59207	0.47700	3.10868
4	-2.72395	0.32253	3.53145
5	-3.06853	0.10757	4.76778
6	-2.82888	0.23356	4.27759
7	-2.65892	0.39197	5.37148
8	-2.88272	0.19714	5.07527
9	-2.57624	0.49942	10.00153
10	-2.86388	0.20925	5.86355
11	-2.86718	0.20708	4.96796
12	-3.25998	0.05572	4.95848
13	-3.46991	0.02604	7.82046
14	-3.32552	0.04413	8.73919
15	-3.53931	0.02006	10.97840
16	-3.49941	0.02332	10.80101

K	HOURS(K)	TOTHRS
1	4.21312	4.21312
2	3.64556	7.85868
3	41.78555	49.64423
4	28.25386	77.89809
5	9.42300	87.32109
6	20.45993	107.78100
7	34.33623	142.11720
8	17.26915	159.38640
9	43.74879	203.13520
10	18.33013	221.46530
11	18.14007	239.60540
12	4.88093	244.48630
13	2.28069	246.76700
14	3.86590	250.63290
15	1.75751	252.39040
16	2.04260	254.43300

K	FIVEXQ	SVANN	SLTIME	TIMINT	I	TIME	XQT
1	2.053E-06	2.221E-08	-0.5398	-12.7219			
					1	8.0	-13.84446
					2	16.0	-14.21865
					3	72.0	-15.03061
					4	624.0	-16.19640
2	1.833E-06	1.565E-08	-0.5681	-12.8156			
					1	8.0	-13.99686
					2	16.0	-14.39062
					3	72.0	-15.24505
					4	624.0	-16.47180
3	5.127E-06	3.322E-08	-0.6010	-11.7644			
					1	8.0	-13.01409
					2	16.0	-13.43064
					3	72.0	-14.33453
					4	624.0	-15.63230

```
 4 4.228E-06 3.178E-08   -0.5833  -11.9695
                                    1    8.0    -13.18240
                                    2   16.0    -13.58669
                                    3   72.0    -14.46396
                                    4  624.0    -15.72351
 5 2.742E-06 2.730E-08   -0.5498  -12.4258
                                    1    8.0    -13.56895
                                    2   16.0    -13.95001
                                    3   72.0    -14.77688
                                    4  624.0    -15.96407
 6 3.640E-06 3.066E-08   -0.5697  -12.1286
                                    1    8.0    -13.31321
                                    2   16.0    -13.70808
                                    3   72.0    -14.56493
                                    4  624.0    -15.79514
 7 4.684E-06 3.952E-08   -0.5695  -11.8765
                                    1    8.0    -13.06076
                                    2   16.0    -13.45550
                                    3   72.0    -14.31207
                                    4  624.0    -15.54189
 8 3.403E-06 2.972E-08   -0.5653  -12.1991
                                    1    8.0    -13.37470
                                    2   16.0    -13.76657
                                    3   72.0    -14.61690
                                    4  624.0    -15.83776
 9 5.293E-06 6.511E-08   -0.5245  -11.7857
                                    1    8.0    -12.87633
                                    2   16.0    -13.23989
                                    3   72.0    -14.02878
                                    4  624.0    -15.16144
10 3.525E-06 3.113E-08   -0.5641  -12.1646
                                    1    8.0    -13.33754
                                    2   16.0    -13.72851
                                    3   72.0    -14.57690
                                    4  624.0    -15.79497
11 3.498E-06 2.694E-08   -0.5803  -12.1611
                                    1    8.0    -13.36792
                                    2   16.0    -13.77018
                                    3   72.0    -14.64306
                                    4  624.0    -15.89630
12 1.966E-06 1.663E-08   -0.5692  -12.7450
                                    1    8.0    -13.92858
                                    2   16.0    -14.32312
                                    3   72.0    -15.17924
                                    4  624.0    -16.40843
13 1.529E-06 1.640E-08   -0.5408  -13.0162
                                    1    8.0    -14.14086
                                    2   16.0    -14.51573
                                    3   72.0    -15.32918
                                    4  624.0    -16.49710
14 1.832E-06 2.379E-08   -0.5181  -12.8510
                                    1    8.0    -13.92823
                                    2   16.0    -14.28732
```

				3	72.0	-15.06653
				4	624.0	-16.18527
15	1.547E-06	2.237E-08	-0.5052	-13.0289		
				1	8.0	-14.07955
				2	16.0	-14.42976
				3	72.0	-15.18967
				4	624.0	-16.28073
16	1.732E-06	2.631E-08	-0.4993	-12.9202		
				1	8.0	-13.95855
				2	16.0	-14.30466
				3	72.0	-15.05571
				4	624.0	-16.13401
17	8.867E-06	6.511E-08	-0.5861	-11.2269		
				1	8.0	-12.44557
				2	16.0	-12.85179
				3	72.0	-13.73326
				4	624.0	-14.99883

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

RELATIVE CONCENTRATION (X/Q) VALUES (SEC/CUBIC METER)
VERSUS
AVERAGING TIME

DOWNWIND SECTOR	DISTANCE (METERS)	0-2 HOURS	0-8 HOURS	8-24 HOURS	1-4 DAYS	4-30 DAYS	ANNUAL AVERAGE	HOURS PER YEAR MAX 0-2 HR X/Q IS EXCEEDED IN SECTOR	DOWNWIND SECTOR
S	7300.	2.05E-06	9.71E-07	6.68E-07	2.97E-07	9.25E-08	2.22E-08	4.2	S
SSW	7300.	1.83E-06	8.34E-07	5.63E-07	2.39E-07	7.02E-08	1.57E-08	3.6	SSW
SW	7300.	5.13E-06	2.23E-06	1.47E-06	5.95E-07	1.63E-07	3.32E-08	41.8	SW
WSW	7300.	4.23E-06	1.88E-06	1.26E-06	5.23E-07	1.48E-07	3.18E-08	28.3	WSW
W	7300.	2.74E-06	1.28E-06	8.74E-07	3.82E-07	1.17E-07	2.73E-08	9.4	W
WNW	7300.	3.64E-06	1.65E-06	1.11E-06	4.73E-07	1.38E-07	3.07E-08	20.5	WNW
NW	7300.	4.68E-06	2.13E-06	1.43E-06	6.09E-07	1.78E-07	3.95E-08	34.3	NW
NNW	7300.	3.40E-06	1.55E-06	1.05E-06	4.49E-07	1.32E-07	2.97E-08	17.3	NNW
N	7300.	5.29E-06	2.56E-06	1.78E-06	8.08E-07	2.60E-07	6.51E-08	43.7	N
NNE	7300.	3.53E-06	1.61E-06	1.09E-06	4.67E-07	1.38E-07	3.11E-08	18.3	NNE
NE	7300.	3.50E-06	1.56E-06	1.05E-06	4.37E-07	1.25E-07	2.69E-08	18.1	NE
ENE	7300.	1.97E-06	8.93E-07	6.02E-07	2.56E-07	7.48E-08	1.66E-08	4.9	ENE
E	7300.	1.53E-06	7.22E-07	4.96E-07	2.20E-07	6.85E-08	1.64E-08	2.3	E
ESE	7300.	1.83E-06	8.93E-07	6.24E-07	2.86E-07	9.35E-08	2.38E-08	3.9	ESE
SE	7300.	1.55E-06	7.68E-07	5.41E-07	2.53E-07	8.50E-08	2.24E-08	1.8	SE
SSE	7300.	1.73E-06	8.67E-07	6.13E-07	2.89E-07	9.84E-08	2.63E-08	2.0	SSE
MAX X/Q		5.29E-06				TOTAL HOURS AROUND SITE:		254.4	
SRP 2.3.4	7300.	8.87E-06	3.94E-06	2.62E-06	1.09E-06	3.06E-07	6.51E-08		
SITE LIMIT		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-08		

0.5 PERCENT X/Q TO AN INDIVIDUAL IS LIMITING.

X/Q VALUES (SEC/CUBIC METER) FOR FUMIGATION AT THE BOUNDARY:

DOWNWIND SECTOR	DISTANCE (METERS)	FUMIGATION X/Q
S	7300.	9.20E-06
SSW	7300.	9.80E-06
SW	7300.	1.75E-05
WSW	7300.	1.75E-05
W	7300.	1.13E-05
WNW	7300.	1.65E-05
NW	7300.	1.75E-05
NNW	7300.	1.33E-05
N	7300.	1.75E-05
NNE	7300.	1.33E-05
NE	7300.	1.33E-05
ENE	7300.	1.05E-05
E	7300.	8.58E-06

ESE	7300.	1.05E-05
SE	7300.	8.19E-06
SSE	7300.	8.19E-06

NOTE: VALUES ON THIS PAGE ARE APPROXIMATIONS ONLY.
CHECK THE REASONABLENESS OF THE ENVELOPES
COMPUTED FOR THE 0-2 HOUR VALUES. FOR ANY
FAULTY ENVELOPES, ADJUST THE ABOVE VALUES.

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 12/29/02

PRINTOUT OF INPUT CARDS

1 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000

PAVAN Input

Reactor Building Stacks to EAB (River Tower 45' wind and Tower 1A 89'-33' Delta T Stability Class)

```
   1  1111
Peach Bottom                                  Ground Release
13.7 meters          10.4-21.1 meters

Peach Bottom,  1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ
    7    0
2584. 54.3 10.0 13.7
    0    0    1    1    4    4    4
  88.  83.  81.  88. 122. 132. 123.  50.  58.  31.  29.  33.  37.  42.  32.  71.
 156. 102.  81. 102. 197. 313. 422. 164.  69.  34.  17.  13.  28.  34. 163. 163.
 223.  44.  36.  36.  66.  87. 288. 291. 157.  35.  32.  31.  53.  70. 348. 418.
 124.  18.   5.   4.   1.  10.  20. 164.  65.  10.   1.   2.  31.  95. 350. 463.
  29.   0.   1.   0.   0.   2.   0.  12.   0.   1.   0.   0.   0.  25. 147. 116.
   1.   3.   1.   0.   1.   0.   1.   0.   0.   0.   0.   0.   0.   5.  40.  17.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
  35.  33.  33.  29.  36.  44.  48.  19.  13.   4.   5.  10.  10.  13.  24.  31.
  68.  37.  42.  69. 113. 121. 137.  56.  27.  18.  16.  15.  23.  24.  90.  78.
 100.  34.  35.  10.  46.  81. 103.  95.  60.  17.  42.  32.  61.  95. 149. 137.
  57.   4.   5.   1.   1.  15.  20.  52.  12.   3.   5.   4.  25. 134. 217. 168.
   3.   0.   1.   0.   0.   2.   1.   8.   0.   1.   0.   1.   1.  59.  83.  53.
   0.   0.   1.   0.   0.   0.   0.   1.   0.   0.   0.   0.   0.   6.  31.  16.
  92.  62.  70.  81.  92.  93. 103.  48.  34.  17.  25.  28.  32.  40.  61.  70.
 171. 102. 158. 164. 217. 267. 360. 164. 115.  63.  70.  83. 101. 124. 219. 171.
 208.  86.  52.  48. 122. 210. 296. 367. 149.  57.  72.  85. 193. 359. 489. 288.
  76.  22.   7.   3.  22.  45.  44. 161.  38.  14.  14.  11.  89. 561. 557. 318.
   9.   2.   0.   0.   2.   4.   7.  37.   1.   0.   0.   0.   6. 123. 270. 115.
   2.   1.   0.   0.   0.   0.   1.   0.   0.   0.   0.   0.   1.  17.  67.  30.
 105.  60.  45.  56.  64. 109. 155.  79.  37.  45.  61.  49.  65.  62.  82. 161.
 153.  59.  69.  93.  94. 178. 342. 217. 153.  51.  91.  93. 136. 151. 252. 151.
 164.  40.  30.  23.  42. 119. 197. 332.  98.  24.  30.  21.  73. 306. 382. 180.
  44.   7.   0.   2.  25.  23.  20. 103.  17.   1.   1.   1.   7. 132. 217. 107.
   2.   0.   0.   0.   5.   0.   1.  22.   6.   0.   0.   0.   0.  13.  44.  19.
   2.   1.   0.   0.   0.   2.   1.   0.   0.   0.   0.   0.   0.   6.   3.   1.
  91.  52.  48.  42.  60.  96. 167. 119.  99.  51.  75.  88. 121.  99. 173. 176.
  90.  28.  36.  19.  42.  99. 228. 248. 128.  44.  53.  82. 128. 170. 218. 148.
  35.   5.   8.   8.   5.  30.  67. 183.  66.  14.   4.  11.  21. 155. 228.  93.
   1.   0.   0.   1.  12.   0.   0.  18.   5.   0.   0.   0.   1.  13.  24.  20.
   0.   0.   0.   0.   2.   0.   0.   0.   0.   0.   0.   0.   1.   0.   1.   2.
   0.   0.   0.   0.   0.   1.   0.   0.   0.   0.   0.   0.   3.   0.   2.   0.
 193.  76.  63.  81.  89. 132. 268. 314. 357. 273. 444. 594. 923. 799. 914. 590.
 139.  47.  37.  13.  48. 113. 313. 314. 234. 141. 203. 353. 794. 599. 732. 458.
```

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  41.   3.   6.   0.   0.  25.  22.  62.  32.   7.   3.   7.  60. 188. 214.  71.
   0.   1.   0.   0.   0.   0.   0.   9.   5.   0.   0.   1.   0.   5.  11.   7.
   0.   0.   0.   0.   0.   0.   0.   1.   2.   0.   0.   0.   0.   0.   0.   0.
   0.   0.   0.   0.   0.   0.   0.   1.   0.   0.   1.   4.   8.   9.   3.   1.
 101. 0.50 3.50 7.50 12.5 18.5 24.0 55.0
0823.0823.0823.0823.0823.0823.0823.0823.0823.0823.0823.0823.0823.0823.0823.0823.
-100.7300.7300.7300.7300.7300.7300.7300.7300.7300.7300.7300.7300.7300.7300.7300.
   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.
   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.
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PAVAN Output

Reactor Building Stacks to EAB (River Tower 45' wind and Tower 1A 89'-33' Delta T Stability Class)

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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PRINTOUT OF INPUT CARDS

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   1     00010 01111 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000   2     Peach Bottom
Ground Release
   3     13.7 meters         10.4-21.1 meters
   4
   5     Peach Bottom,  1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ      6          7 42046     0
   7          0.500  2584.000    54.300    10.000    13.700
   8        0.000  0.000  1.000  1.000  4.000  4.000  4.000
   9       88.000 83.000 81.000 88.000122.000132.000123.000 50.000 58.000 31.000 29.000 33.000 37.000 42.000 32.000 71.000
   9      156.000102.000 81.000102.000197.000313.000422.000164.000 69.000 34.000 17.000 13.000 28.000 34.000163.000163.000
   9      223.000 44.000 36.000 36.000 66.000 87.000288.000291.000157.000 35.000 32.000 31.000 53.000 70.000348.000418.000
   9      124.000 18.000  5.000  4.000  1.000 10.000 20.000164.000 65.000 10.000  1.000  2.000 31.000 95.000350.000463.000
   9       29.000  0.000  1.000  0.000  0.000  2.000  0.000 12.000  0.000  1.000  0.000  0.000  0.000 25.000147.000116.000
   9        1.000  3.000  1.000  0.000  1.000  0.000  1.000  0.000  0.000  0.000  0.000  0.000  0.000  5.000 40.000 17.000
   9        0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9        0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9        0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9        0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9        0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       35.000 33.000 33.000 29.000 36.000 44.000 48.000 19.000 13.000  4.000  5.000 10.000 10.000 13.000 24.000 31.000
   9       68.000 37.000 42.000 69.000113.000121.000137.000 56.000 27.000 18.000 16.000 15.000 23.000 24.000 90.000 78.000
   9      100.000 34.000 35.000 10.000 46.000 81.000103.000 95.000 60.000 17.000 42.000 32.000 61.000 95.000149.000137.000
   9       57.000  4.000  5.000  1.000  1.000 15.000 20.000 52.000 12.000  3.000  5.000  4.000 25.000134.000217.000168.000
   9        3.000  0.000  1.000  0.000  0.000  2.000  1.000  8.000  0.000  1.000  0.000  1.000  1.000 59.000 83.000 53.000
   9        0.000  0.000  1.000  0.000  0.000  0.000  0.000  1.000  0.000  0.000  0.000  0.000  0.000  6.000 31.000 16.000
   9       92.000 62.000 70.000 81.000 92.000 93.000103.000 48.000 34.000 17.000 25.000 28.000 32.000 40.000 61.000 70.000
   9      171.000102.000158.000164.000217.000267.000360.000164.000115.000 63.000 70.000 83.000101.000124.000219.000171.000
   9      208.000 86.000 52.000 48.000122.000210.000296.000367.000149.000 57.000 72.000 85.000193.000359.000489.000288.000
   9       76.000 22.000  7.000  3.000 22.000 45.000 44.000161.000 38.000 14.000 14.000 11.000 89.000561.000557.000318.000
   9        9.000  2.000  0.000  0.000  2.000  4.000  7.000 37.000  1.000  0.000  0.000  0.000  6.000123.000270.000115.000
   9        2.000  1.000  0.000  0.000  0.000  0.000  1.000  0.000  0.000  0.000  0.000  0.000  1.000 17.000 67.000 30.000
   9      105.000 60.000 45.000 56.000 64.000109.000155.000 79.000 37.000 45.000 61.000 49.000 65.000 62.000 82.000161.000
   9      153.000 59.000 69.000 93.000 94.000178.000342.000217.000153.000 51.000 91.000 93.000136.000151.000252.000151.000
   9      164.000 40.000 30.000 23.000 42.000119.000197.000332.000 98.000 24.000 30.000 21.000 73.000306.000382.000180.000
   9       44.000  7.000  0.000  2.000 25.000 23.000 20.000103.000 17.000  1.000  1.000  1.000  7.000132.000217.000107.000
   9        2.000  0.000  0.000  0.000  5.000  0.000  1.000 22.000  6.000  0.000  0.000  0.000  0.000 13.000 44.000 19.000
   9        2.000  1.000  0.000  0.000  0.000  2.000  1.000  0.000  0.000  0.000  0.000  0.000  0.000  6.000  3.000  1.000
   9       91.000 52.000 48.000 42.000 60.000 96.000167.000119.000 99.000 51.000 75.000 88.000121.000 99.000173.000176.000
   9       90.000 28.000 36.000 19.000 42.000 99.000228.000248.000128.000 44.000 53.000 82.000128.000170.000218.000148.000
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   9      35.000  5.000  8.000  8.000  5.000 30.000 67.000183.000 66.000 14.000  4.000 11.000 21.000155.000228.000 93.000
   9       1.000  0.000  0.000  1.000 12.000  0.000  0.000 18.000  5.000  0.000  0.000  0.000  1.000 13.000 24.000 20.000
   9       0.000  0.000  0.000  0.000  2.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  0.000  1.000  2.000
   9       0.000  0.000  0.000  0.000  0.000  1.000  0.000  0.000  0.000  0.000  0.000  0.000  3.000  0.000  2.000  0.000
   9     193.000 76.000 63.000 81.000 89.000132.000268.000314.000357.000273.000444.000594.000923.000799.000914.000590.000
   9     139.000 47.000 37.000 13.000 48.000113.000313.000314.000234.000141.000203.000353.000794.000599.000732.000458.000
   9      41.000  3.000  6.000  0.000  0.000 25.000 22.000 62.000 32.000  7.000  3.000  7.000 60.000188.000214.000 71.000
   9       0.000  1.000  0.000  0.000  0.000  0.000  0.000  9.000  5.000  0.000  0.000  1.000  0.000  5.000 11.000  7.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  2.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  0.000  0.000  1.000  4.000  8.000  9.000  3.000  1.000  10        101.
0.500  3.500  7.500 12.500 18.500 24.000 55.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000 11        823.   823.   823.   823.
823.   823.   823.   823.   823.   823.   823.   823.   823.   823.   823.   823. 11       -100.  7300.  7300.  7300.  7300.  7300.
7300.  7300.  7300.  7300.  7300.  7300.  7300.  7300.  7300.  7300.  12         1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0
1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0
  12         1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 13.7 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION ATMOSPHERIC STABILITY CLASS A
WIND SPEED (M/S)

TOWER	RELEASE	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.22	0.21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.56	1.45	0.209	0.197	0.193	0.209	0.290	0.314	0.293	0.119	0.138	0.074	0.069	0.078	0.088	0.100	0.076	0.169	2.616
3.35	3.10	0.371	0.243	0.193	0.243	0.469	0.744	1.004	0.390	0.164	0.081	0.040	0.031	0.067	0.081	0.388	0.388	4.895
5.59	5.17	0.530	0.105	0.086	0.086	0.157	0.207	0.685	0.692	0.373	0.083	0.076	0.074	0.126	0.166	0.828	0.994	5.268
8.27	7.64	0.295	0.043	0.012	0.010	0.002	0.024	0.048	0.390	0.155	0.024	0.002	0.005	0.074	0.226	0.832	1.101	3.242
10.73	9.92	0.069	0.000	0.002	0.000	0.000	0.005	0.000	0.029	0.000	0.002	0.000	0.000	0.000	0.059	0.350	0.276	0.792
24.59	22.73	0.002	0.007	0.002	0.000	0.002	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.012	0.095	0.040	0.164
TOTAL		1.48	0.59	0.49	0.55	0.92	1.29	2.03	1.62	0.83	0.26	0.19	0.19	0.35	0.64	2.57	2.97	16.98

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION ATMOSPHERIC STABILITY CLASS B
WIND SPEED (M/S)

TOWER	RELEASE	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.22	0.21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.56	1.45	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3.35	3.10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5.59	5.17	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8.27	7.64	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.73	9.92	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24.59	22.73	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION ATMOSPHERIC STABILITY CLASS C
WIND SPEED (M/S)

TOWER	RELEASE	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.22	0.21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002
1.56	1.45	0.083	0.078	0.078	0.069	0.086	0.105	0.114	0.045	0.031	0.010	0.012	0.024	0.024	0.031	0.057	0.074	0.920
3.35	3.10	0.162	0.088	0.100	0.164	0.269	0.288	0.326	0.133	0.064	0.043	0.038	0.036	0.055	0.057	0.214	0.186	2.221
5.59	5.17	0.238	0.081	0.083	0.024	0.109	0.193	0.245	0.226	0.143	0.040	0.100	0.076	0.145	0.226	0.354	0.326	2.609
8.27	7.64	0.136	0.010	0.012	0.002	0.002	0.036	0.048	0.124	0.029	0.007	0.012	0.010	0.059	0.319	0.516	0.400	1.720
10.73	9.92	0.007	0.000	0.002	0.000	0.000	0.005	0.002	0.019	0.000	0.002	0.000	0.002	0.002	0.140	0.197	0.126	0.507
24.59	22.73	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.014	0.074	0.038	0.131
TOTAL		0.63	0.26	0.28	0.26	0.47	0.63	0.74	0.55	0.27	0.10	0.16	0.15	0.29	0.79	1.41	1.15	8.11

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION ATMOSPHERIC STABILITY CLASS D
WIND SPEED (M/S)

TOWER	RELEASE	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.22	0.21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002
1.56	1.45	0.219	0.147	0.166	0.193	0.219	0.221	0.245	0.114	0.081	0.040	0.059	0.067	0.076	0.095	0.145	0.166	2.255

3.35	3.10	0.407	0.243	0.376	0.390	0.516	0.635	0.856	0.390	0.274	0.150	0.166	0.197	0.240	0.295	0.521	0.407	6.062
5.59	5.17	0.495	0.205	0.124	0.114	0.290	0.499	0.704	0.873	0.354	0.136	0.171	0.202	0.459	0.854	1.163	0.685	7.328
8.27	7.64	0.181	0.052	0.017	0.007	0.052	0.107	0.105	0.383	0.090	0.033	0.033	0.026	0.212	1.334	1.325	0.756	4.714
10.73	9.92	0.021	0.005	0.000	0.000	0.005	0.010	0.017	0.088	0.002	0.000	0.000	0.000	0.014	0.293	0.642	0.274	1.370
24.59	22.73	0.005	0.002	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.002	0.040	0.159	0.071	0.283
TOTAL		1.33	0.65	0.68	0.70	1.08	1.47	1.93	1.85	0.80	0.36	0.43	0.49	1.00	2.91	3.96	2.36	22.01

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION ATMOSPHERIC STABILITY CLASS E
WIND SPEED (M/S)

TOWER	RELEASE	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.22	0.19	0.001	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.001	0.010
1.56	1.34	0.250	0.143	0.107	0.133	0.152	0.259	0.369	0.188	0.088	0.107	0.145	0.117	0.155	0.147	0.195	0.383	2.937
3.35	2.86	0.364	0.140	0.164	0.221	0.224	0.423	0.813	0.516	0.364	0.121	0.216	0.221	0.323	0.359	0.599	0.359	5.430
5.59	4.77	0.390	0.095	0.071	0.055	0.100	0.283	0.469	0.790	0.233	0.057	0.071	0.050	0.174	0.728	0.909	0.428	4.902
8.27	7.07	0.105	0.017	0.000	0.005	0.059	0.055	0.048	0.245	0.040	0.002	0.002	0.002	0.017	0.314	0.516	0.254	1.681
10.73	9.17	0.005	0.000	0.000	0.000	0.012	0.000	0.002	0.052	0.014	0.000	0.000	0.000	0.000	0.031	0.105	0.045	0.266
24.59	21.01	0.005	0.002	0.000	0.000	0.000	0.005	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.014	0.007	0.002	0.038
TOTAL		1.12	0.40	0.34	0.41	0.55	1.03	1.70	1.79	0.74	0.29	0.44	0.39	0.67	1.59	2.33	1.47	15.26

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION ATMOSPHERIC STABILITY CLASS F
WIND SPEED (M/S)

TOWER	RELEASE	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.22	0.19	0.001	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.010
1.56	1.34	0.216	0.124	0.114	0.100	0.143	0.228	0.397	0.283	0.235	0.121	0.178	0.209	0.288	0.235	0.411	0.419	3.703
3.35	2.86	0.214	0.067	0.086	0.045	0.100	0.235	0.542	0.590	0.304	0.105	0.126	0.195	0.304	0.404	0.518	0.352	4.188
5.59	4.77	0.083	0.012	0.019	0.019	0.012	0.071	0.159	0.435	0.157	0.033	0.010	0.026	0.050	0.369	0.542	0.221	2.219
8.27	7.07	0.002	0.000	0.000	0.002	0.029	0.000	0.000	0.043	0.012	0.000	0.000	0.000	0.002	0.031	0.057	0.048	0.226
10.73	9.17	0.000	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.002	0.005	0.014
24.59	21.01	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.007	0.000	0.005	0.000	0.014
TOTAL		0.52	0.20	0.22	0.17	0.29	0.54	1.10	1.35	0.71	0.26	0.31	0.43	0.65	1.04	1.54	1.05	10.37

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION ATMOSPHERIC STABILITY CLASS G
WIND SPEED (M/S)

TOWER	RELEASE	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.22	0.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.010
1.56	1.34	0.459	0.181	0.150	0.193	0.212	0.314	0.637	0.747	0.849	0.649	1.056	1.413	2.195	1.900	2.174	1.403	14.532
3.35	2.86	0.331	0.112	0.088	0.031	0.114	0.269	0.744	0.747	0.557	0.335	0.483	0.840	1.888	1.425	1.741	1.089	10.793
5.59	4.77	0.098	0.007	0.014	0.000	0.000	0.059	0.052	0.147	0.076	0.017	0.007	0.017	0.143	0.447	0.509	0.169	1.762
8.27	7.07	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.021	0.012	0.000	0.000	0.002	0.000	0.012	0.026	0.017	0.093
10.73	9.17	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.007
24.59	21.01	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.002	0.010	0.019	0.021	0.007	0.002	0.064
TOTAL		0.89	0.30	0.25	0.22	0.33	0.64	1.43	1.67	1.50	1.00	1.55	2.28	4.25	3.81	4.46	2.68	27.26

WIND MEASURED AT 13.7 METERS.
WIND SPEED CORRECTED TO THE RELEASE HEIGHT OF 10.0 METERS.

OVERALL WIND DIRECTION FREQUENCY

WIND DIRECTION:	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
FREQUENCY:	6.0	2.4	2.3	2.3	3.6	5.6	8.9	8.8	4.8	2.3	3.1	3.9	7.2	10.8	16.3	11.7

OVERALL WIND SPEED FREQUENCY AS MEASURED ON THE TOWER:
MAX.WIND SPEED (M/S): 0.224 1.565 3.353 5.588 8.270 10.729 24.587
WIND SPEED FREQUENCY: 0.03 26.96 33.59 24.09 11.68 2.96 0.69

BUILDING AND RELEASE CHARACTERISTICS:
RELEASE HEIGHT: 10.00 METERS
MIXING VOLUME COEFFICIENT: 0.50
BUILDING CROSS-SECTIONAL AREA: 2584.00 SQUARE METERS

BOUNDARY DISTANCES (METERS) FROM THE SOURCE FOR EACH DOWNWIND SECTOR:

DOWNWIND SECTOR	S	SSW	SW	WSW	W	WNW	NW	NNW	N	NNE	NE	ENE	E	ESE	SE	SSE
BOUNDARY 1	823.	823.	823.	823.	823.	823.	823.	823.	823.	823.	823.	823.	823.	823.	823.	823.
BOUNDARY 2	-100.	7300.	7300.	7300.	7300.	7300.	7300.	7300.	7300.	7300.	7300.	7300.	7300.	7300.	7300.	7300.

THE CONVERSION FACTOR APPLIED TO THE WIND SPEED CLASSES IS 0.447

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 13.7 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

WINDSPEEDS ADJUSTED TO 10.0 METERS.

PERCENT OF THE TIME A GIVEN WINDSPEED IS LOWER:

WINDSPEED (METER/SEC)	CUMULATIVE FREQUENCY (PERCENT)
0.19	0.03
0.21	0.03
1.34	21.21
1.45	27.00
2.86	47.41
3.10	60.59
4.77	69.47
5.17	84.67
7.07	86.67
7.64	96.35
9.17	96.64
9.92	99.31
21.01	99.42
22.73	100.00

WINDSPEED (INTERPOLATED) (METER/SEC)	CUMULATIVE FREQUENCY (PERCENT)
0.19	0.03
1.36	27.00
2.96	60.59
5.02	84.67
7.55	96.35
9.84	99.31
22.44	100.00

LOG-NORMAL INTERPOLATION PERCENTILES

WINDSPEED (METER/SEC)	CUMULATIVE FREQUENCY (PERCENT)
0.41	1.00
0.56	3.00
0.66	5.00
0.85	10.00
1.01	15.00
1.16	20.00

1.30	25.00
1.47	30.00
1.66	35.00
1.87	40.00
2.09	45.00
2.33	50.00
2.61	55.00
2.92	60.00
3.21	65.00
3.54	70.00
3.93	75.00
4.42	80.00
5.18	85.00
5.76	90.00

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 13.7 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ
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PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE S SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 10.0 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.4	3.52	823.	0.	0.	157.1	310.1	157.1	4.518E-06	4.480E-06	4.480E-06
A	3.1	6.23	823.	0.	0.	157.1	310.1	157.1	2.108E-06	2.091E-06	2.091E-06
A	5.2	8.91	823.	0.	0.	157.1	310.1	157.1	1.265E-06	1.254E-06	1.254E-06
A	7.6	4.95	823.	0.	0.	157.1	310.1	157.1	8.548E-07	8.476E-07	8.476E-07
A	9.9	1.16	823.	0.	0.	157.1	310.1	157.1	6.589E-07	6.534E-07	6.534E-07
A	22.7	0.04	823.	0.	0.	157.1	310.1	157.1	2.875E-07	2.851E-07	2.851E-07
C	0.2	0.00	823.	0.	0.	89.7	51.2	89.7	3.356E-04	3.080E-04	3.080E-04
C	1.4	1.40	823.	0.	0.	89.7	51.2	89.7	4.795E-05	4.401E-05	4.401E-05
C	3.1	2.72	823.	0.	0.	89.7	51.2	89.7	2.238E-05	2.054E-05	2.054E-05
C	5.2	4.00	823.	0.	0.	89.7	51.2	89.7	1.343E-05	1.232E-05	1.232E-05
C	7.6	2.28	823.	0.	0.	89.7	51.2	89.7	9.071E-06	8.325E-06	8.325E-06
C	9.9	0.12	823.	0.	0.	89.7	51.2	89.7	6.992E-06	6.417E-06	6.417E-06
D	0.2	0.00	823.	0.	0.	63.2	27.1	124.7	4.551E-04	7.248E-04	4.551E-04
D	1.4	3.68	823.	0.	0.	63.2	27.1	124.7	6.501E-05	1.035E-04	6.501E-05
D	3.1	6.83	823.	0.	0.	63.2	27.1	95.0	3.983E-05	4.832E-05	3.983E-05
D	5.2	8.31	823.	0.	0.	63.2	27.1	69.3	3.278E-05	2.899E-05	2.899E-05
D	7.6	3.04	823.	0.	0.	63.2	27.1	63.2	2.429E-05	1.959E-05	1.959E-05
D	9.9	0.36	823.	0.	0.	63.2	27.1	63.2	1.872E-05	1.510E-05	1.510E-05
D	22.7	0.08	823.	0.	0.	63.2	27.1	63.2	8.169E-06	6.589E-06	6.589E-06
E	0.2	0.01	823.	0.	0.	44.9	18.7	132.5	6.730E-04	1.332E-03	6.730E-04
E	1.3	4.20	823.	0.	0.	44.9	18.7	132.5	9.614E-05	1.903E-04	9.614E-05
E	2.9	6.11	823.	0.	0.	44.9	18.7	92.8	6.402E-05	8.883E-05	6.402E-05
E	4.8	6.55	823.	0.	0.	44.9	18.7	56.2	6.350E-05	5.330E-05	5.330E-05
E	7.1	1.76	823.	0.	0.	44.9	18.7	44.9	5.365E-05	3.601E-05	3.601E-05
E	9.2	0.08	823.	0.	0.	44.9	18.7	44.9	4.135E-05	2.776E-05	2.776E-05
E	21.0	0.08	823.	0.	0.	44.9	18.7	44.9	1.804E-05	1.211E-05	1.211E-05
F	0.2	0.01	823.	0.	0.	31.0	12.0	121.7	1.141E-03	2.127E-03	1.141E-03
F	1.3	3.64	823.	0.	0.	31.0	12.0	121.7	1.630E-04	3.039E-04	1.630E-04
F	2.9	3.60	823.	0.	0.	31.0	12.0	77.6	1.193E-04	1.418E-04	1.193E-04
F	4.8	1.40	823.	0.	0.	31.0	12.0	41.1	1.351E-04	8.509E-05	8.509E-05
F	7.1	0.04	823.	0.	0.	31.0	12.0	31.0	1.210E-04	5.750E-05	5.750E-05
G	0.2	0.01	823.	0.	0.	21.4	7.7	125.7	1.720E-03	3.367E-03	1.720E-03
G	1.3	7.71	823.	0.	0.	21.4	7.7	125.7	2.457E-04	4.809E-04	2.457E-04

G	2.9	5.55	823.	0.	0.	21.4	7.7	70.2	2.053E-04	2.244E-04	2.053E-04
G	4.8	1.64	823.	0.	0.	21.4	7.7	30.8	2.805E-04	1.347E-04	1.347E-04

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 13.7 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

S SECTOR BOUNDARY DISTANCE = 823.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.720E-03	1.141E-03	6.730E-04	4.551E-04	3.080E-04	2.457E-04	2.053E-04	1.630E-04	1.347E-04	1.193E-04
0.005	0.014	0.028	0.032	0.035	7.747	13.300	16.936	18.574	22.170
0.00030	0.00086	0.00167	0.00190	0.00211	0.46113	0.79172	1.00815	1.10566	1.31972
9.614E-05	8.509E-05	6.501E-05	6.402E-05	5.750E-05	5.330E-05	4.401E-05	3.983E-05	3.601E-05	2.899E-05
26.365	27.763	31.439	37.552	37.592	44.145	45.543	52.375	54.133	62.443
1.56944	1.65268	1.87149	2.23538	2.23776	2.62781	2.71105	3.11775	3.22239	3.71709
2.776E-05	2.054E-05	1.959E-05	1.510E-05	1.232E-05	1.211E-05	8.325E-06	6.589E-06	6.417E-06	4.480E-06
62.523	65.240	68.277	68.636	72.632	72.712	74.989	75.069	75.189	78.705
3.72185	3.88357	4.06433	4.08573	4.32357	4.32833	4.46389	4.46865	4.47578	4.68508
2.091E-06	1.254E-06	8.476E-07	6.534E-07	2.851E-07					
84.937	93.847	98.801	99.960	100.000					
5.05610	5.58647	5.88139	5.95036	5.95274					

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 0.791
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 1.007
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 2.625
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 3.115
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 3.714

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  K   I    XQSAVE(K,I)   XQINT(K,I) XQSLOP(K,I)
  1   1       -6.36563 -10.91894  -1.00605
  1   2       -8.49120 -14.71414  -2.57877
  1   3       -8.72174 -15.47337  -2.90550
  1   4       -9.83966 -17.38826  -3.89308
  1   5      -10.13086 -17.60125  -4.00733
  1   6      -10.44855     NUMXQ(K)=  6
    4.723E-04               0.060              1.000
    3.398E-04               0.179              3.000
    2.883E-04               0.298              5.000
    2.275E-04               0.595             10.000
    1.832E-04               0.893             15.000
    1.357E-04               1.191             20.000
    1.054E-04               1.488             25.000
    8.523E-05               1.786             30.000
    7.091E-05               2.083             35.000
    6.024E-05               2.381             40.000
    5.160E-05               2.679             45.000
    4.314E-05               2.976             50.000
    3.650E-05               3.274             55.000
    3.119E-05               3.572             60.000

    2.419E-04               0.5                8.40

ANNUAL AVERAGE =    3.07E-06

K=  1      FIVEXQ(K)= 2.419E-04      FIVEPR(K)= 8.399
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 13.7 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE SSW SECTOR.

STABILITY CLASS	WINDSPEED AT 10.0 METERS METER/SEC	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.4	8.20	823.	0.	0.	157.1	310.1	157.1	4.518E-06	4.480E-06	4.480E-06
A	3.1	10.07	823.	0.	0.	157.1	310.1	157.1	2.108E-06	2.091E-06	2.091E-06
A	5.2	4.35	823.	0.	0.	157.1	310.1	157.1	1.265E-06	1.254E-06	1.254E-06
A	7.6	1.78	823.	0.	0.	157.1	310.1	157.1	8.548E-07	8.476E-07	8.476E-07
A	22.7	0.30	823.	0.	0.	157.1	310.1	157.1	2.875E-07	2.851E-07	2.851E-07
C	0.2	0.01	823.	0.	0.	89.7	51.2	89.7	3.356E-04	3.080E-04	3.080E-04
C	1.4	3.26	823.	0.	0.	89.7	51.2	89.7	4.795E-05	4.401E-05	4.401E-05
C	3.1	3.65	823.	0.	0.	89.7	51.2	89.7	2.238E-05	2.054E-05	2.054E-05
C	5.2	3.36	823.	0.	0.	89.7	51.2	89.7	1.343E-05	1.232E-05	1.232E-05
C	7.6	0.40	823.	0.	0.	89.7	51.2	89.7	9.071E-06	8.325E-06	8.325E-06
D	0.2	0.01	823.	0.	0.	63.2	27.1	124.7	4.551E-04	7.248E-04	4.551E-04
D	1.4	6.12	823.	0.	0.	63.2	27.1	124.7	6.501E-05	1.035E-04	6.501E-05
D	3.1	10.07	823.	0.	0.	63.2	27.1	95.0	3.983E-05	4.832E-05	3.983E-05
D	5.2	8.49	823.	0.	0.	63.2	27.1	69.3	3.278E-05	2.899E-05	2.899E-05
D	7.6	2.17	823.	0.	0.	63.2	27.1	63.2	2.429E-05	1.959E-05	1.959E-05
D	9.9	0.20	823.	0.	0.	63.2	27.1	63.2	1.872E-05	1.510E-05	1.510E-05
D	22.7	0.10	823.	0.	0.	63.2	27.1	63.2	8.169E-06	6.589E-06	6.589E-06
E	0.2	0.02	823.	0.	0.	44.9	18.7	132.5	6.730E-04	1.332E-03	6.730E-04
E	1.3	5.93	823.	0.	0.	44.9	18.7	132.5	9.614E-05	1.903E-04	9.614E-05
E	2.9	5.83	823.	0.	0.	44.9	18.7	92.8	6.402E-05	8.883E-05	6.402E-05
E	4.8	3.95	823.	0.	0.	44.9	18.7	56.2	6.350E-05	5.330E-05	5.330E-05
E	7.1	0.69	823.	0.	0.	44.9	18.7	44.9	5.365E-05	3.601E-05	3.601E-05
E	21.0	0.10	823.	0.	0.	44.9	18.7	44.9	1.804E-05	1.211E-05	1.211E-05
F	0.2	0.01	823.	0.	0.	31.0	12.0	121.7	1.141E-03	2.127E-03	1.141E-03
F	1.3	5.14	823.	0.	0.	31.0	12.0	121.7	1.630E-04	3.039E-04	1.630E-04
F	2.9	2.77	823.	0.	0.	31.0	12.0	77.6	1.193E-04	1.418E-04	1.193E-04
F	4.8	0.49	823.	0.	0.	31.0	12.0	41.1	1.351E-04	8.509E-05	8.509E-05
G	0.2	0.00	823.	0.	0.	21.4	7.7	125.7	1.720E-03	3.367E-03	1.720E-03
G	1.3	7.51	823.	0.	0.	21.4	7.7	125.7	2.457E-04	4.809E-04	2.457E-04
G	2.9	4.64	823.	0.	0.	21.4	7.7	70.2	2.053E-04	2.244E-04	2.053E-04
G	4.8	0.30	823.	0.	0.	21.4	7.7	30.8	2.805E-04	1.347E-04	1.347E-04
G	7.1	0.10	823.	0.	0.	21.4	7.7	21.4	2.730E-04	9.099E-05	9.099E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 13.7 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

SSW SECTOR BOUNDARY DISTANCE = 823.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.720E-03	1.141E-03	6.730E-04	4.551E-04	3.080E-04	2.457E-04	2.053E-04	1.630E-04	1.347E-04	1.193E-04
0.005	0.018	0.037	0.044	0.052	7.558	12.200	17.336	17.632	20.397
0.00012	0.00044	0.00090	0.00105	0.00126	0.18201	0.29379	0.41747	0.42460	0.49120
9.614E-05	9.099E-05	8.509E-05	6.501E-05	6.402E-05	5.330E-05	4.401E-05	3.983E-05	3.601E-05	2.899E-05
26.323	26.422	26.916	33.039	38.866	42.816	46.076	56.149	56.841	65.334
0.63390	0.63628	0.64817	0.79562	0.93595	1.03108	1.10957	1.35216	1.36881	1.57334
2.054E-05	1.959E-05	1.510E-05	1.232E-05	1.211E-05	8.325E-06	6.589E-06	4.480E-06	2.091E-06	1.254E-06
68.989	71.161	71.359	74.717	74.815	75.211	75.309	83.507	93.580	97.926
1.66134	1.71367	1.71842	1.79929	1.80167	1.81118	1.81356	2.01096	2.25355	2.35820
8.476E-07	2.851E-07								
99.704	100.000								
2.40101	2.40814								

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 0.182
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 0.293
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 0.417
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 0.935
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 1.351

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(7)= 1.572

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
2	1	-6.36563	-11.43622	-1.07448
2	2	-8.31154	-11.72411	-1.17347
2	3	-8.49120	-13.91986	-1.97048
2	4	-8.72174	-17.32782	-3.26235
2	5	-9.65636	-17.61615	-3.38496
2	6	-10.13086	-21.88337	-5.31466
2	7	-10.44855	NUMXQ(K)= 7	

4.595E-04	0.024	1.000
3.311E-04	0.072	3.000
2.815E-04	0.120	5.000
2.214E-04	0.241	10.000
1.794E-04	0.361	15.000
1.390E-04	0.482	20.000
1.078E-04	0.602	25.000
8.722E-05	0.722	30.000
7.264E-05	0.843	35.000
6.174E-05	0.963	40.000
5.314E-05	1.084	45.000
4.637E-05	1.204	50.000
4.093E-05	1.324	55.000
3.469E-05	1.445	60.000
2.931E-05	1.565	65.000
1.333E-04	0.5	20.76

ANNUAL AVERAGE = 1.37E-06

K= 2 FIVEXQ(K)= 1.333E-04 FIVEPR(K)=20.763

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 13.7 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE SW SECTOR.

STABILITY CLASS	WINDSPEED AT 10.0 METERS METER/SEC	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.4	8.51	823.	0.	0.	157.1	310.1	157.1	4.518E-06	4.480E-06	4.480E-06
A	3.1	8.51	823.	0.	0.	157.1	310.1	157.1	2.108E-06	2.091E-06	2.091E-06
A	5.2	3.78	823.	0.	0.	157.1	310.1	157.1	1.265E-06	1.254E-06	1.254E-06
A	7.6	0.53	823.	0.	0.	157.1	310.1	157.1	8.548E-07	8.476E-07	8.476E-07
A	9.9	0.11	823.	0.	0.	157.1	310.1	157.1	6.589E-07	6.534E-07	6.534E-07
A	22.7	0.11	823.	0.	0.	157.1	310.1	157.1	2.875E-07	2.851E-07	2.851E-07
C	0.2	0.01	823.	0.	0.	89.7	51.2	89.7	3.356E-04	3.080E-04	3.080E-04
C	1.4	3.47	823.	0.	0.	89.7	51.2	89.7	4.795E-05	4.401E-05	4.401E-05
C	3.1	4.41	823.	0.	0.	89.7	51.2	89.7	2.238E-05	2.054E-05	2.054E-05
C	5.2	3.68	823.	0.	0.	89.7	51.2	89.7	1.343E-05	1.232E-05	1.232E-05
C	7.6	0.53	823.	0.	0.	89.7	51.2	89.7	9.071E-06	8.325E-06	8.325E-06
C	9.9	0.11	823.	0.	0.	89.7	51.2	89.7	6.992E-06	6.417E-06	6.417E-06
C	22.7	0.11	823.	0.	0.	89.7	51.2	89.7	3.051E-06	2.800E-06	2.800E-06
D	0.2	0.01	823.	0.	0.	63.2	27.1	124.7	4.551E-04	7.248E-04	4.551E-04
D	1.4	7.36	823.	0.	0.	63.2	27.1	124.7	6.501E-05	1.035E-04	6.501E-05
D	3.1	16.61	823.	0.	0.	63.2	27.1	95.0	3.983E-05	4.832E-05	3.983E-05
D	5.2	5.47	823.	0.	0.	63.2	27.1	69.3	3.278E-05	2.899E-05	2.899E-05
D	7.6	0.74	823.	0.	0.	63.2	27.1	63.2	2.429E-05	1.959E-05	1.959E-05
E	0.2	0.02	823.	0.	0.	44.9	18.7	132.5	6.730E-04	1.332E-03	6.730E-04
E	1.3	4.73	823.	0.	0.	44.9	18.7	132.5	9.614E-05	1.903E-04	9.614E-05
E	2.9	7.25	823.	0.	0.	44.9	18.7	92.8	6.402E-05	8.883E-05	6.402E-05
E	4.8	3.15	823.	0.	0.	44.9	18.7	56.2	6.350E-05	5.330E-05	5.330E-05
F	0.2	0.01	823.	0.	0.	31.0	12.0	121.7	1.141E-03	2.127E-03	1.141E-03
F	1.3	5.04	823.	0.	0.	31.0	12.0	121.7	1.630E-04	3.039E-04	1.630E-04
F	2.9	3.78	823.	0.	0.	31.0	12.0	77.6	1.193E-04	1.418E-04	1.193E-04
F	4.8	0.84	823.	0.	0.	31.0	12.0	41.1	1.351E-04	8.509E-05	8.509E-05
G	0.2	0.00	823.	0.	0.	21.4	7.7	125.7	1.720E-03	3.367E-03	1.720E-03
G	1.3	6.62	823.	0.	0.	21.4	7.7	125.7	2.457E-04	4.809E-04	2.457E-04
G	2.9	3.89	823.	0.	0.	21.4	7.7	70.2	2.053E-04	2.244E-04	2.053E-04
G	4.8	0.63	823.	0.	0.	21.4	7.7	30.8	2.805E-04	1.347E-04	1.347E-04

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 13.7 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

SW SECTOR BOUNDARY DISTANCE = 823.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.720E-03	1.141E-03	6.730E-04	4.551E-04	3.080E-04	2.457E-04	2.053E-04	1.630E-04	1.347E-04	1.193E-04
0.004	0.017	0.033	0.040	0.049	6.671	10.559	15.604	16.235	20.018
0.00010	0.00039	0.00074	0.00091	0.00112	0.15095	0.23895	0.35311	0.36738	0.45300
9.614E-05	8.509E-05	6.501E-05	6.402E-05	5.330E-05	4.401E-05	3.983E-05	2.899E-05	2.054E-05	1.959E-05
24.748	25.589	32.946	40.198	43.351	46.819	63.425	68.890	73.304	74.040
0.56003	0.57905	0.74554	0.90965	0.98100	1.05948	1.43526	1.55893	1.65882	1.67547
1.232E-05	8.325E-06	6.417E-06	4.480E-06	2.800E-06	2.091E-06	1.254E-06	8.476E-07	6.534E-07	2.851E-07
77.719	78.244	78.349	86.862	86.967	95.481	99.264	99.790	99.895	100.000
1.75872	1.77061	1.77299	1.96563	1.96801	2.16066	2.24628	2.25817	2.26055	2.26292

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED

CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 0.151
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 0.239
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 0.353
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 1.434
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 1.557

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
3	1	-6.36563	-11.53414	-1.08647
3	2	-8.31154	-12.00718	-1.24596

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  3  3      -8.49120 -13.58817  -1.80621
  3  4      -8.72174 -16.22000  -2.78303
  3  5     -10.13086 -31.36974  -9.70718
  3  6     -10.44855     NUMXQ(K)=  6
    4.424E-04              0.023              1.000
    3.180E-04              0.068              3.000
    2.702E-04              0.113              5.000
    2.098E-04              0.226             10.000
    1.669E-04              0.339             15.000
    1.291E-04              0.453             20.000
    1.041E-04              0.566             25.000
    8.700E-05              0.679             30.000
    7.451E-05              0.792             35.000
    6.500E-05              0.905             40.000
    5.751E-05              1.018             45.000
    5.147E-05              1.131             50.000
    4.649E-05              1.245             55.000
    4.232E-05              1.358             60.000
    3.626E-05              1.471             65.000

    1.174E-04              0.5               22.10

ANNUAL AVERAGE =   1.28E-06

K=  3     FIVEXQ(K)= 1.174E-04     FIVEPR(K)=22.095
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 13.7 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE WSW SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 10.0 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.4	9.04	823.	0.	0.	157.1	310.1	157.1	4.518E-06	4.480E-06	4.480E-06
A	3.1	10.48	823.	0.	0.	157.1	310.1	157.1	2.108E-06	2.091E-06	2.091E-06
A	5.2	3.70	823.	0.	0.	157.1	310.1	157.1	1.265E-06	1.254E-06	1.254E-06
A	7.6	0.41	823.	0.	0.	157.1	310.1	157.1	8.548E-07	8.476E-07	8.476E-07
C	0.2	0.01	823.	0.	0.	89.7	51.2	89.7	3.356E-04	3.080E-04	3.080E-04
C	1.4	2.98	823.	0.	0.	89.7	51.2	89.7	4.795E-05	4.401E-05	4.401E-05
C	3.1	7.09	823.	0.	0.	89.7	51.2	89.7	2.238E-05	2.054E-05	2.054E-05
C	5.2	1.03	823.	0.	0.	89.7	51.2	89.7	1.343E-05	1.232E-05	1.232E-05
C	7.6	0.10	823.	0.	0.	89.7	51.2	89.7	9.071E-06	8.325E-06	8.325E-06
D	0.2	0.01	823.	0.	0.	63.2	27.1	124.7	4.551E-04	7.248E-04	4.551E-04
D	1.4	8.32	823.	0.	0.	63.2	27.1	124.7	6.501E-05	1.035E-04	6.501E-05
D	3.1	16.85	823.	0.	0.	63.2	27.1	95.0	3.983E-05	4.832E-05	3.983E-05
D	5.2	4.93	823.	0.	0.	63.2	27.1	69.3	3.278E-05	2.899E-05	2.899E-05
D	7.6	0.31	823.	0.	0.	63.2	27.1	63.2	2.429E-05	1.959E-05	1.959E-05
E	0.2	0.02	823.	0.	0.	44.9	18.7	132.5	6.730E-04	1.332E-03	6.730E-04
E	1.3	5.75	823.	0.	0.	44.9	18.7	132.5	9.614E-05	1.903E-04	9.614E-05
E	2.9	9.55	823.	0.	0.	44.9	18.7	92.8	6.402E-05	8.883E-05	6.402E-05
E	4.8	2.36	823.	0.	0.	44.9	18.7	56.2	6.350E-05	5.330E-05	5.330E-05
E	7.1	0.21	823.	0.	0.	44.9	18.7	44.9	5.365E-05	3.601E-05	3.601E-05
F	0.2	0.01	823.	0.	0.	31.0	12.0	121.7	1.141E-03	2.127E-03	1.141E-03
F	1.3	4.31	823.	0.	0.	31.0	12.0	121.7	1.630E-04	3.039E-04	1.630E-04
F	2.9	1.95	823.	0.	0.	31.0	12.0	77.6	1.193E-04	1.418E-04	1.193E-04
F	4.8	0.82	823.	0.	0.	31.0	12.0	41.1	1.351E-04	8.509E-05	8.509E-05
F	7.1	0.10	823.	0.	0.	31.0	12.0	31.0	1.210E-04	5.750E-05	5.750E-05
G	0.2	0.01	823.	0.	0.	21.4	7.7	125.7	1.720E-03	3.367E-03	1.720E-03
G	1.3	8.32	823.	0.	0.	21.4	7.7	125.7	2.457E-04	4.809E-04	2.457E-04
G	2.9	1.34	823.	0.	0.	21.4	7.7	70.2	2.053E-04	2.244E-04	2.053E-04

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 13.7 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

WSW SECTOR BOUNDARY DISTANCE = 823.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.720E-03	1.141E-03	6.730E-04	4.551E-04	3.080E-04	2.457E-04	2.053E-04	1.630E-04	1.193E-04	9.614E-05
0.005	0.017	0.035	0.044	0.052	8.372	9.707	14.022	15.974	21.726
0.00013	0.00038	0.00081	0.00102	0.00120	0.19384	0.22476	0.32465	0.36984	0.50303
8.509E-05	6.501E-05	6.402E-05	5.750E-05	5.330E-05	4.401E-05	3.983E-05	3.601E-05	2.899E-05	2.054E-05
22.548	30.868	40.421	40.524	42.887	45.866	62.712	62.917	67.848	74.936
0.52205	0.71470	0.93589	0.93826	0.99297	1.06194	1.45199	1.45674	1.57090	1.73501
1.959E-05	1.232E-05	8.325E-06	4.480E-06	2.091E-06	1.254E-06	8.476E-07			
75.244	76.271	76.374	85.413	95.891	99.589	100.000			
1.74215	1.76593	1.76831	1.97760	2.22019	2.30581	2.31533			

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 0.194
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 0.324
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 0.935
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 1.450
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 1.733

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
4	1	-6.36563	-11.40345	-1.07047
4	2	-8.31154	-15.44082	-2.46828

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  4  3      -8.72174 -15.58631  -2.52173
  4  4      -9.65636 -16.29212  -2.82188
  4  5     -10.13086 -30.47232  -9.31646
  4  6     -10.79333     NUMXQ(K)=  6
    4.735E-04              0.023              1.000
    3.419E-04              0.069              3.000
    2.911E-04              0.116              5.000
    2.138E-04              0.232             10.000
    1.541E-04              0.347             15.000
    1.206E-04              0.463             20.000
    9.920E-05              0.579             25.000
    8.425E-05              0.695             30.000
    7.319E-05              0.810             35.000
    6.465E-05              0.926             40.000
    5.715E-05              1.042             45.000
    5.105E-05              1.158             50.000
    4.603E-05              1.273             55.000
    4.183E-05              1.389             60.000
    3.491E-05              1.505             65.000
    2.651E-05              1.621             70.000

    1.128E-04              0.5               21.60

ANNUAL AVERAGE =   1.36E-06

K=  4     FIVEXQ(K)= 1.128E-04     FIVEPR(K)=21.595
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 13.7 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE W SECTOR.

STABILITY CLASS	WINDSPEED AT 10.0 METERS METER/SEC	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.4	7.99	823.	0.	0.	157.1	310.1	157.1	4.518E-06	4.480E-06	4.480E-06
A	3.1	12.90	823.	0.	0.	157.1	310.1	157.1	2.108E-06	2.091E-06	2.091E-06
A	5.2	4.32	823.	0.	0.	157.1	310.1	157.1	1.265E-06	1.254E-06	1.254E-06
A	7.6	0.07	823.	0.	0.	157.1	310.1	157.1	8.548E-07	8.476E-07	8.476E-07
A	22.7	0.07	823.	0.	0.	157.1	310.1	157.1	2.875E-07	2.851E-07	2.851E-07
C	0.2	0.01	823.	0.	0.	89.7	51.2	89.7	3.356E-04	3.080E-04	3.080E-04
C	1.4	2.36	823.	0.	0.	89.7	51.2	89.7	4.795E-05	4.401E-05	4.401E-05
C	3.1	7.40	823.	0.	0.	89.7	51.2	89.7	2.238E-05	2.054E-05	2.054E-05
C	5.2	3.01	823.	0.	0.	89.7	51.2	89.7	1.343E-05	1.232E-05	1.232E-05
C	7.6	0.07	823.	0.	0.	89.7	51.2	89.7	9.071E-06	8.325E-06	8.325E-06
D	0.2	0.01	823.	0.	0.	63.2	27.1	124.7	4.551E-04	7.248E-04	4.551E-04
D	1.4	6.03	823.	0.	0.	63.2	27.1	124.7	6.501E-05	1.035E-04	6.501E-05
D	3.1	14.21	823.	0.	0.	63.2	27.1	95.0	3.983E-05	4.832E-05	3.983E-05
D	5.2	7.99	823.	0.	0.	63.2	27.1	69.3	3.278E-05	2.899E-05	2.899E-05
D	7.6	1.44	823.	0.	0.	63.2	27.1	63.2	2.429E-05	1.959E-05	1.959E-05
D	9.9	0.13	823.	0.	0.	63.2	27.1	63.2	1.872E-05	1.510E-05	1.510E-05
E	0.2	0.01	823.	0.	0.	44.9	18.7	132.5	6.730E-04	1.332E-03	6.730E-04
E	1.3	4.19	823.	0.	0.	44.9	18.7	132.5	9.614E-05	1.903E-04	9.614E-05
E	2.9	6.16	823.	0.	0.	44.9	18.7	92.8	6.402E-05	8.883E-05	6.402E-05
E	4.8	2.75	823.	0.	0.	44.9	18.7	56.2	6.350E-05	5.330E-05	5.330E-05
E	7.1	1.64	823.	0.	0.	44.9	18.7	44.9	5.365E-05	3.601E-05	3.601E-05
E	9.2	0.33	823.	0.	0.	44.9	18.7	44.9	4.135E-05	2.776E-05	2.776E-05
F	0.2	0.01	823.	0.	0.	31.0	12.0	121.7	1.141E-03	2.127E-03	1.141E-03
F	1.3	3.93	823.	0.	0.	31.0	12.0	121.7	1.630E-04	3.039E-04	1.630E-04
F	2.9	2.75	823.	0.	0.	31.0	12.0	77.6	1.193E-04	1.418E-04	1.193E-04
F	4.8	0.33	823.	0.	0.	31.0	12.0	41.1	1.351E-04	8.509E-05	8.509E-05
F	7.1	0.79	823.	0.	0.	31.0	12.0	31.0	1.210E-04	5.750E-05	5.750E-05
F	9.2	0.13	823.	0.	0.	31.0	12.0	31.0	9.328E-05	4.432E-05	4.432E-05
G	0.2	0.00	823.	0.	0.	21.4	7.7	125.7	1.720E-03	3.367E-03	1.720E-03
G	1.3	5.83	823.	0.	0.	21.4	7.7	125.7	2.457E-04	4.809E-04	2.457E-04
G	2.9	3.14	823.	0.	0.	21.4	7.7	70.2	2.053E-04	2.244E-04	2.053E-04

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 13.7 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

W SECTOR BOUNDARY DISTANCE = 823.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.720E-03	1.141E-03	6.730E-04	4.551E-04	3.080E-04	2.457E-04	2.053E-04	1.630E-04	1.193E-04	9.614E-05
0.004	0.014	0.027	0.034	0.040	5.870	9.014	12.944	15.696	19.888
0.00014	0.00051	0.00100	0.00123	0.00145	0.21312	0.32728	0.46998	0.56988	0.72209
8.509E-05	6.501E-05	6.402E-05	5.750E-05	5.330E-05	4.432E-05	4.401E-05	3.983E-05	3.601E-05	2.899E-05
20.215	26.242	32.399	33.185	35.936	36.067	38.426	52.640	54.278	62.269
0.73398	0.95279	1.17635	1.20489	1.30478	1.30954	1.39516	1.91126	1.97072	2.26088
2.776E-05	2.054E-05	1.959E-05	1.510E-05	1.232E-05	8.325E-06	4.480E-06	2.091E-06	1.254E-06	8.476E-07
62.597	69.999	71.440	71.571	74.584	74.650	82.641	95.546	99.869	99.934
2.27277	2.54153	2.59385	2.59861	2.70801	2.71039	3.00055	3.46908	3.62605	3.62843
2.851E-07									
100.000									
3.63081									

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 0.213
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 0.327
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 0.469
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 1.175
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 1.909

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(7)= 2.259

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
5	1	-6.36563	-11.35347	-1.06420
5	2	-8.31154	-12.00847	-1.29336
5	3	-8.49120	-13.63331	-1.89083
5	4	-8.72174	-16.02623	-2.81205
5	5	-9.65636	-15.24477	-2.46707
5	6	-10.13086	-19.56371	-4.55062
5	7	-10.44855	NUMXQ(K)= 7	

4.278E-04	0.036	1.000
3.061E-04	0.109	3.000
2.592E-04	0.182	5.000
1.923E-04	0.363	10.000
1.412E-04	0.545	15.000
1.060E-04	0.726	20.000
8.426E-05	0.908	25.000
6.952E-05	1.089	30.000
5.949E-05	1.271	35.000
5.230E-05	1.452	40.000
4.660E-05	1.634	45.000
4.195E-05	1.815	50.000
3.669E-05	1.997	55.000
3.112E-05	2.178	60.000
1.535E-04	0.5	13.77

ANNUAL AVERAGE = 1.78E-06

K= 5 FIVEXQ(K)= 1.535E-04 FIVEPR(K)=13.771

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 13.7 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE WNW SECTOR.

STABILITY CLASS	WINDSPEED AT 10.0 METERS METER/SEC	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.4	5.61	823.	0.	0.	157.1	310.1	157.1	4.518E-06	4.480E-06	4.480E-06
A	3.1	13.30	823.	0.	0.	157.1	310.1	157.1	2.108E-06	2.091E-06	2.091E-06
A	5.2	3.70	823.	0.	0.	157.1	310.1	157.1	1.265E-06	1.254E-06	1.254E-06
A	7.6	0.42	823.	0.	0.	157.1	310.1	157.1	8.548E-07	8.476E-07	8.476E-07
A	9.9	0.08	823.	0.	0.	157.1	310.1	157.1	6.589E-07	6.534E-07	6.534E-07
C	0.2	0.00	823.	0.	0.	89.7	51.2	89.7	3.356E-04	3.080E-04	3.080E-04
C	1.4	1.87	823.	0.	0.	89.7	51.2	89.7	4.795E-05	4.401E-05	4.401E-05
C	3.1	5.14	823.	0.	0.	89.7	51.2	89.7	2.238E-05	2.054E-05	2.054E-05
C	5.2	3.44	823.	0.	0.	89.7	51.2	89.7	1.343E-05	1.232E-05	1.232E-05
C	7.6	0.64	823.	0.	0.	89.7	51.2	89.7	9.071E-06	8.325E-06	8.325E-06
C	9.9	0.08	823.	0.	0.	89.7	51.2	89.7	6.992E-06	6.417E-06	6.417E-06
D	0.2	0.00	823.	0.	0.	63.2	27.1	124.7	4.551E-04	7.248E-04	4.551E-04
D	1.4	3.95	823.	0.	0.	63.2	27.1	124.7	6.501E-05	1.035E-04	6.501E-05
D	3.1	11.34	823.	0.	0.	63.2	27.1	95.0	3.983E-05	4.832E-05	3.983E-05
D	5.2	8.92	823.	0.	0.	63.2	27.1	69.3	3.278E-05	2.899E-05	2.899E-05
D	7.6	1.91	823.	0.	0.	63.2	27.1	63.2	2.429E-05	1.959E-05	1.959E-05
D	9.9	0.17	823.	0.	0.	63.2	27.1	63.2	1.872E-05	1.510E-05	1.510E-05
E	0.2	0.01	823.	0.	0.	44.9	18.7	132.5	6.730E-04	1.332E-03	6.730E-04
E	1.3	4.63	823.	0.	0.	44.9	18.7	132.5	9.614E-05	1.903E-04	9.614E-05
E	2.9	7.56	823.	0.	0.	44.9	18.7	92.8	6.402E-05	8.883E-05	6.402E-05
E	4.8	5.06	823.	0.	0.	44.9	18.7	56.2	6.350E-05	5.330E-05	5.330E-05
E	7.1	0.98	823.	0.	0.	44.9	18.7	44.9	5.365E-05	3.601E-05	3.601E-05
E	21.0	0.08	823.	0.	0.	44.9	18.7	44.9	1.804E-05	1.211E-05	1.211E-05
F	0.2	0.01	823.	0.	0.	31.0	12.0	121.7	1.141E-03	2.127E-03	1.141E-03
F	1.3	4.08	823.	0.	0.	31.0	12.0	121.7	1.630E-04	3.039E-04	1.630E-04
F	2.9	4.21	823.	0.	0.	31.0	12.0	77.6	1.193E-04	1.418E-04	1.193E-04
F	4.8	1.27	823.	0.	0.	31.0	12.0	41.1	1.351E-04	8.509E-05	8.509E-05
F	21.0	0.04	823.	0.	0.	31.0	12.0	31.0	4.071E-05	1.934E-05	1.934E-05
G	0.2	0.00	823.	0.	0.	21.4	7.7	125.7	1.720E-03	3.367E-03	1.720E-03
G	1.3	5.61	823.	0.	0.	21.4	7.7	125.7	2.457E-04	4.809E-04	2.457E-04
G	2.9	4.80	823.	0.	0.	21.4	7.7	70.2	2.053E-04	2.244E-04	2.053E-04
G	4.8	1.06	823.	0.	0.	21.4	7.7	30.8	2.805E-04	1.347E-04	1.347E-04

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 13.7 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

WNW SECTOR BOUNDARY DISTANCE = 823.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.720E-03	1.141E-03	6.730E-04	4.551E-04	3.080E-04	2.457E-04	2.053E-04	1.630E-04	1.347E-04	1.193E-04
0.004	0.014	0.029	0.033	0.038	5.646	10.446	14.525	15.587	19.793
0.00021	0.00079	0.00163	0.00187	0.00214	0.31608	0.58483	0.81315	0.87261	1.10807
9.614E-05	8.509E-05	6.501E-05	6.402E-05	5.330E-05	4.401E-05	3.983E-05	3.601E-05	2.899E-05	2.054E-05
24.423	25.698	29.649	37.211	42.266	44.135	55.478	56.455	65.377	70.517
1.36731	1.43866	1.65984	2.08319	2.36621	2.47086	3.10588	3.16058	3.66003	3.94781
1.959E-05	1.934E-05	1.510E-05	1.232E-05	1.211E-05	8.325E-06	6.417E-06	4.480E-06	2.091E-06	1.254E-06
72.429	72.471	72.641	76.082	76.167	76.804	76.889	82.497	95.794	99.490
4.05484	4.05722	4.06673	4.25938	4.26413	4.29981	4.30457	4.61851	5.36293	5.56985
8.476E-07	6.534E-07								
99.915	100.000								
5.59363	5.59839								

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 0.584
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 0.812
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 2.081
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 3.103
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 3.657

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  K  I   XQSAVE(K,I)  XQINT(K,I) XQSLOP(K,I)
  6  1      -6.36563 -11.06308  -1.01995
  6  2      -8.49120 -13.40970  -1.95056
  6  3      -8.72174 -14.85755  -2.55298
  6  4      -9.65636 -15.29544  -2.76792
  6  5     -10.13086 -18.15269  -4.29924
  6  6     -10.44855     NUMXQ(K)=  6
    4.354E-04              0.056              1.000
    3.123E-04              0.168              3.000
    2.647E-04              0.280              5.000
    2.085E-04              0.560             10.000
    1.582E-04              0.840             15.000
    1.202E-04              1.120             20.000
    9.645E-05              1.400             25.000
    8.016E-05              1.680             30.000
    6.830E-05              1.959             35.000
    5.888E-05              2.239             40.000
    5.127E-05              2.519             45.000
    4.520E-05              2.799             50.000
    4.026E-05              3.079             55.000
    3.427E-05              3.359             60.000
    2.932E-05              3.639             65.000

    2.170E-04              0.5                8.93

ANNUAL AVERAGE =    2.78E-06

K=  6     FIVEXQ(K)= 2.170E-04     FIVEPR(K)= 8.931
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 13.7 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE NW SECTOR.

STABILITY CLASS	WINDSPEED AT 10.0 METERS METER/SEC	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.4	3.27	823.	0.	0.	157.1	310.1	157.1	4.518E-06	4.480E-06	4.480E-06
A	3.1	11.23	823.	0.	0.	157.1	310.1	157.1	2.108E-06	2.091E-06	2.091E-06
A	5.2	7.67	823.	0.	0.	157.1	310.1	157.1	1.265E-06	1.254E-06	1.254E-06
A	7.6	0.53	823.	0.	0.	157.1	310.1	157.1	8.548E-07	8.476E-07	8.476E-07
A	22.7	0.03	823.	0.	0.	157.1	310.1	157.1	2.875E-07	2.851E-07	2.851E-07
C	0.2	0.00	823.	0.	0.	89.7	51.2	89.7	3.356E-04	3.080E-04	3.080E-04
C	1.4	1.28	823.	0.	0.	89.7	51.2	89.7	4.795E-05	4.401E-05	4.401E-05
C	3.1	3.65	823.	0.	0.	89.7	51.2	89.7	2.238E-05	2.054E-05	2.054E-05
C	5.2	2.74	823.	0.	0.	89.7	51.2	89.7	1.343E-05	1.232E-05	1.232E-05
C	7.6	0.53	823.	0.	0.	89.7	51.2	89.7	9.071E-06	8.325E-06	8.325E-06
C	9.9	0.03	823.	0.	0.	89.7	51.2	89.7	6.992E-06	6.417E-06	6.417E-06
D	0.2	0.00	823.	0.	0.	63.2	27.1	124.7	4.551E-04	7.248E-04	4.551E-04
D	1.4	2.74	823.	0.	0.	63.2	27.1	124.7	6.501E-05	1.035E-04	6.501E-05
D	3.1	9.58	823.	0.	0.	63.2	27.1	95.0	3.983E-05	4.832E-05	3.983E-05
D	5.2	7.88	823.	0.	0.	63.2	27.1	69.3	3.278E-05	2.899E-05	2.899E-05
D	7.6	1.17	823.	0.	0.	63.2	27.1	63.2	2.429E-05	1.959E-05	1.959E-05
D	9.9	0.19	823.	0.	0.	63.2	27.1	63.2	1.872E-05	1.510E-05	1.510E-05
D	22.7	0.03	823.	0.	0.	63.2	27.1	63.2	8.169E-06	6.589E-06	6.589E-06
E	0.2	0.01	823.	0.	0.	44.9	18.7	132.5	6.730E-04	1.332E-03	6.730E-04
E	1.3	4.13	823.	0.	0.	44.9	18.7	132.5	9.614E-05	1.903E-04	9.614E-05
E	2.9	9.10	823.	0.	0.	44.9	18.7	92.8	6.402E-05	8.883E-05	6.402E-05
E	4.8	5.24	823.	0.	0.	44.9	18.7	56.2	6.350E-05	5.330E-05	5.330E-05
E	7.1	0.53	823.	0.	0.	44.9	18.7	44.9	5.365E-05	3.601E-05	3.601E-05
E	9.2	0.03	823.	0.	0.	44.9	18.7	44.9	4.135E-05	2.776E-05	2.776E-05
E	21.0	0.03	823.	0.	0.	44.9	18.7	44.9	1.804E-05	1.211E-05	1.211E-05
F	0.2	0.01	823.	0.	0.	31.0	12.0	121.7	1.141E-03	2.127E-03	1.141E-03
F	1.3	4.45	823.	0.	0.	31.0	12.0	121.7	1.630E-04	3.039E-04	1.630E-04
F	2.9	6.07	823.	0.	0.	31.0	12.0	77.6	1.193E-04	1.418E-04	1.193E-04
F	4.8	1.78	823.	0.	0.	31.0	12.0	41.1	1.351E-04	8.509E-05	8.509E-05
G	0.2	0.00	823.	0.	0.	21.4	7.7	125.7	1.720E-03	3.367E-03	1.720E-03
G	1.3	7.13	823.	0.	0.	21.4	7.7	125.7	2.457E-04	4.809E-04	2.457E-04
G	2.9	8.33	823.	0.	0.	21.4	7.7	70.2	2.053E-04	2.244E-04	2.053E-04
G	4.8	0.59	823.	0.	0.	21.4	7.7	30.8	2.805E-04	1.347E-04	1.347E-04

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 13.7 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

NW SECTOR BOUNDARY DISTANCE = 823.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.720E-03	1.141E-03	6.730E-04	4.551E-04	3.080E-04	2.457E-04	2.053E-04	1.630E-04	1.347E-04	1.193E-04
0.005	0.016	0.029	0.032	0.036	7.170	15.503	19.949	20.534	26.604
0.00042	0.00144	0.00263	0.00289	0.00319	0.64058	1.38500	1.78219	1.83451	2.37678
9.614E-05	8.509E-05	6.501E-05	6.402E-05	5.330E-05	4.401E-05	3.983E-05	3.601E-05	2.899E-05	2.776E-05
30.730	32.514	35.256	44.361	49.605	50.883	60.467	60.999	68.879	68.906
2.74542	2.90477	3.14974	3.96313	4.43167	4.54583	5.40203	5.44960	6.15359	6.15597
2.054E-05	1.959E-05	1.510E-05	1.232E-05	1.211E-05	8.325E-06	6.589E-06	6.417E-06	4.480E-06	2.091E-06
72.553	73.724	73.911	76.653	76.679	77.212	77.238	77.265	80.540	91.774
6.48180	6.58645	6.60310	6.84807	6.85045	6.89801	6.90039	6.90277	7.19531	8.19897
1.254E-06	8.476E-07	2.851E-07							
99.441	99.973	100.000							
8.88393	8.93150	8.93388							

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED

CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 1.780
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 2.374
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 3.960
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 5.398
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(7)= 6.150

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  K  I   XQSAVE(K,I)  XQINT(K,I) XQSLOP(K,I)
  7  1      -6.36563 -10.56761  -0.94299
  7  2      -8.49120 -13.54038  -2.29305
  7  3      -8.72174 -14.21838  -2.61569
  7  4      -9.03426 -14.47632  -2.74584
  7  5      -9.65636 -15.28557  -3.20685
  7  6     -10.13086 -17.97718  -4.88136
  7  7     -10.44855     NUMXQ(K)=  7
    4.896E-04              0.089              1.000
    3.557E-04              0.268              3.000
    3.030E-04              0.447              5.000
    2.402E-04              0.893             10.000
    2.078E-04              1.340             15.000
    1.626E-04              1.787             20.000
    1.277E-04              2.233             25.000
    1.035E-04              2.680             30.000
    8.600E-05              3.127             35.000
    7.294E-05              3.574             40.000
    6.267E-05              4.020             45.000
    5.348E-05              4.467             50.000
    4.620E-05              4.914             55.000
    4.032E-05              5.360             60.000
    3.343E-05              5.807             65.000

    2.921E-04              0.5                5.60

ANNUAL AVERAGE =   4.94E-06

K=  7     FIVEXQ(K)= 2.921E-04     FIVEPR(K)= 5.597
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 13.7 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE NNW SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 10.0 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.4	1.35	823.	0.	0.	157.1	310.1	157.1	4.518E-06	4.480E-06	4.480E-06
A	3.1	4.42	823.	0.	0.	157.1	310.1	157.1	2.108E-06	2.091E-06	2.091E-06
A	5.2	7.84	823.	0.	0.	157.1	310.1	157.1	1.265E-06	1.254E-06	1.254E-06
A	7.6	4.42	823.	0.	0.	157.1	310.1	157.1	8.548E-07	8.476E-07	8.476E-07
A	9.9	0.32	823.	0.	0.	157.1	310.1	157.1	6.589E-07	6.534E-07	6.534E-07
C	0.2	0.00	823.	0.	0.	89.7	51.2	89.7	3.356E-04	3.080E-04	3.080E-04
C	1.4	0.51	823.	0.	0.	89.7	51.2	89.7	4.795E-05	4.401E-05	4.401E-05
C	3.1	1.51	823.	0.	0.	89.7	51.2	89.7	2.238E-05	2.054E-05	2.054E-05
C	5.2	2.56	823.	0.	0.	89.7	51.2	89.7	1.343E-05	1.232E-05	1.232E-05
C	7.6	1.40	823.	0.	0.	89.7	51.2	89.7	9.071E-06	8.325E-06	8.325E-06
C	9.9	0.22	823.	0.	0.	89.7	51.2	89.7	6.992E-06	6.417E-06	6.417E-06
C	22.7	0.03	823.	0.	0.	89.7	51.2	89.7	3.051E-06	2.800E-06	2.800E-06
D	0.2	0.00	823.	0.	0.	63.2	27.1	124.7	4.551E-04	7.248E-04	4.551E-04
D	1.4	1.29	823.	0.	0.	63.2	27.1	124.7	6.501E-05	1.035E-04	6.501E-05
D	3.1	4.42	823.	0.	0.	63.2	27.1	95.0	3.983E-05	4.832E-05	3.983E-05
D	5.2	9.89	823.	0.	0.	63.2	27.1	69.3	3.278E-05	2.899E-05	2.899E-05
D	7.6	4.34	823.	0.	0.	63.2	27.1	63.2	2.429E-05	1.959E-05	1.959E-05
D	9.9	1.00	823.	0.	0.	63.2	27.1	63.2	1.872E-05	1.510E-05	1.510E-05
E	0.2	0.01	823.	0.	0.	44.9	18.7	132.5	6.730E-04	1.332E-03	6.730E-04
E	1.3	2.13	823.	0.	0.	44.9	18.7	132.5	9.614E-05	1.903E-04	9.614E-05
E	2.9	5.85	823.	0.	0.	44.9	18.7	92.8	6.402E-05	8.883E-05	6.402E-05
E	4.8	8.94	823.	0.	0.	44.9	18.7	56.2	6.350E-05	5.330E-05	5.330E-05
E	7.1	2.77	823.	0.	0.	44.9	18.7	44.9	5.365E-05	3.601E-05	3.601E-05
E	9.2	0.59	823.	0.	0.	44.9	18.7	44.9	4.135E-05	2.776E-05	2.776E-05
F	0.2	0.01	823.	0.	0.	31.0	12.0	121.7	1.141E-03	2.127E-03	1.141E-03
F	1.3	3.21	823.	0.	0.	31.0	12.0	121.7	1.630E-04	3.039E-04	1.630E-04
F	2.9	6.68	823.	0.	0.	31.0	12.0	77.6	1.193E-04	1.418E-04	1.193E-04
F	4.8	4.93	823.	0.	0.	31.0	12.0	41.1	1.351E-04	8.509E-05	8.509E-05
F	7.1	0.48	823.	0.	0.	31.0	12.0	31.0	1.210E-04	5.750E-05	5.750E-05
G	0.2	0.01	823.	0.	0.	21.4	7.7	125.7	1.720E-03	3.367E-03	1.720E-03
G	1.3	8.46	823.	0.	0.	21.4	7.7	125.7	2.457E-04	4.809E-04	2.457E-04
G	2.9	8.46	823.	0.	0.	21.4	7.7	70.2	2.053E-04	2.244E-04	2.053E-04
G	4.8	1.67	823.	0.	0.	21.4	7.7	30.8	2.805E-04	1.347E-04	1.347E-04

G	7.1	0.24	823.	0.	0.	21.4	7.7	21.4	2.730E-04	9.099E-05	9.099E-05
G	9.2	0.03	823.	0.	0.	21.4	7.7	21.4	2.104E-04	7.014E-05	7.014E-05
G	21.0	0.03	823.	0.	0.	21.4	7.7	21.4	9.182E-05	3.061E-05	3.061E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 13.7 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

NNW SECTOR BOUNDARY DISTANCE = 823.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.720E-03	1.141E-03	6.730E-04	4.551E-04	3.080E-04	2.457E-04	2.053E-04	1.630E-04	1.347E-04	1.193E-04
0.006	0.014	0.021	0.022	0.023	8.483	16.942	20.148	21.818	28.500
0.00049	0.00122	0.00182	0.00194	0.00206	0.74886	1.49566	1.77869	1.92614	2.51598
9.614E-05	9.099E-05	8.509E-05	7.014E-05	6.501E-05	6.402E-05	5.750E-05	5.330E-05	4.401E-05	3.983E-05
30.628	30.870	35.801	35.827	37.121	42.967	43.452	52.396	52.908	57.326
2.70386	2.72527	3.16051	3.16289	3.27705	3.79315	3.83596	4.62557	4.67076	5.06081
3.601E-05	3.061E-05	2.899E-05	2.776E-05	2.054E-05	1.959E-05	1.510E-05	1.232E-05	8.325E-06	6.417E-06
60.101	60.128	70.015	70.608	72.116	76.454	77.451	80.010	81.411	81.626
5.30578	5.30815	6.18101	6.23333	6.36652	6.74943	6.83743	7.06338	7.18705	7.20608
4.480E-06	2.800E-06	2.091E-06	1.254E-06	8.476E-07	6.534E-07				
82.974	83.000	87.419	95.258	99.677	100.000				
7.32499	7.32737	7.71742	8.40952	8.79957	8.82811				

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 2.513
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 4.622
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 6.177
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 6.746

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  K   I    XQSAVE(K,I)   XQINT(K,I) XQSLOP(K,I)
  8   1       -6.36563 -10.54254  -0.94459
  8   2       -8.49120 -14.00195  -2.53755
  8   3       -9.03426 -14.76769  -2.92870
  8   4       -9.83966 -17.02468  -4.27002
  8   5      -10.44855 -23.84802  -8.70055
  8   6      -10.84059      NUMXQ(K)=  6
    5.062E-04               0.088              1.000
    3.677E-04               0.265              3.000
    3.132E-04               0.441              5.000
    2.483E-04               0.883             10.000
    2.147E-04               1.324             15.000
    1.734E-04               1.766             20.000
    1.373E-04               2.207             25.000
    1.118E-04               2.648             30.000
    9.176E-05               3.090             35.000
    7.700E-05               3.531             40.000
    6.573E-05               3.973             45.000
    5.688E-05               4.414             50.000
    4.825E-05               4.855             55.000
    4.028E-05               5.297             60.000
    3.401E-05               5.738             65.000
    2.900E-05               6.180             70.000
    2.135E-05               6.621             75.000

    3.008E-04               0.5                5.66

ANNUAL AVERAGE =   4.68E-06

K=  8     FIVEXQ(K)= 3.008E-04     FIVEPR(K)= 5.664
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 13.7 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE N SECTOR.

STABILITY CLASS	WINDSPEED AT 10.0 METERS METER/SEC	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.4	2.85	823.	0.	0.	157.1	310.1	157.1	4.518E-06	4.480E-06	4.480E-06
A	3.1	3.39	823.	0.	0.	157.1	310.1	157.1	2.108E-06	2.091E-06	2.091E-06
A	5.2	7.70	823.	0.	0.	157.1	310.1	157.1	1.265E-06	1.254E-06	1.254E-06
A	7.6	3.19	823.	0.	0.	157.1	310.1	157.1	8.548E-07	8.476E-07	8.476E-07
C	0.2	0.00	823.	0.	0.	89.7	51.2	89.7	3.356E-04	3.080E-04	3.080E-04
C	1.4	0.64	823.	0.	0.	89.7	51.2	89.7	4.795E-05	4.401E-05	4.401E-05
C	3.1	1.33	823.	0.	0.	89.7	51.2	89.7	2.238E-05	2.054E-05	2.054E-05
C	5.2	2.94	823.	0.	0.	89.7	51.2	89.7	1.343E-05	1.232E-05	1.232E-05
C	7.6	0.59	823.	0.	0.	89.7	51.2	89.7	9.071E-06	8.325E-06	8.325E-06
D	0.2	0.00	823.	0.	0.	63.2	27.1	124.7	4.551E-04	7.248E-04	4.551E-04
D	1.4	1.67	823.	0.	0.	63.2	27.1	124.7	6.501E-05	1.035E-04	6.501E-05
D	3.1	5.64	823.	0.	0.	63.2	27.1	95.0	3.983E-05	4.832E-05	3.983E-05
D	5.2	7.31	823.	0.	0.	63.2	27.1	69.3	3.278E-05	2.899E-05	2.899E-05
D	7.6	1.86	823.	0.	0.	63.2	27.1	63.2	2.429E-05	1.959E-05	1.959E-05
D	9.9	0.05	823.	0.	0.	63.2	27.1	63.2	1.872E-05	1.510E-05	1.510E-05
E	0.2	0.01	823.	0.	0.	44.9	18.7	132.5	6.730E-04	1.332E-03	6.730E-04
E	1.3	1.82	823.	0.	0.	44.9	18.7	132.5	9.614E-05	1.903E-04	9.614E-05
E	2.9	7.51	823.	0.	0.	44.9	18.7	92.8	6.402E-05	8.883E-05	6.402E-05
E	4.8	4.81	823.	0.	0.	44.9	18.7	56.2	6.350E-05	5.330E-05	5.330E-05
E	7.1	0.83	823.	0.	0.	44.9	18.7	44.9	5.365E-05	3.601E-05	3.601E-05
E	9.2	0.29	823.	0.	0.	44.9	18.7	44.9	4.135E-05	2.776E-05	2.776E-05
F	0.2	0.01	823.	0.	0.	31.0	12.0	121.7	1.141E-03	2.127E-03	1.141E-03
F	1.3	4.86	823.	0.	0.	31.0	12.0	121.7	1.630E-04	3.039E-04	1.630E-04
F	2.9	6.28	823.	0.	0.	31.0	12.0	77.6	1.193E-04	1.418E-04	1.193E-04
F	4.8	3.24	823.	0.	0.	31.0	12.0	41.1	1.351E-04	8.509E-05	8.509E-05
F	7.1	0.25	823.	0.	0.	31.0	12.0	31.0	1.210E-04	5.750E-05	5.750E-05
G	0.2	0.01	823.	0.	0.	21.4	7.7	125.7	1.720E-03	3.367E-03	1.720E-03
G	1.3	17.52	823.	0.	0.	21.4	7.7	125.7	2.457E-04	4.809E-04	2.457E-04
G	2.9	11.48	823.	0.	0.	21.4	7.7	70.2	2.053E-04	2.244E-04	2.053E-04
G	4.8	1.57	823.	0.	0.	21.4	7.7	30.8	2.805E-04	1.347E-04	1.347E-04
G	7.1	0.25	823.	0.	0.	21.4	7.7	21.4	2.730E-04	9.099E-05	9.099E-05
G	9.2	0.10	823.	0.	0.	21.4	7.7	21.4	2.104E-04	7.014E-05	7.014E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 13.7 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

N SECTOR BOUNDARY DISTANCE = 823.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.720E-03	1.141E-03	6.730E-04	4.551E-04	3.080E-04	2.457E-04	2.053E-04	1.630E-04	1.347E-04	1.193E-04
0.011	0.024	0.030	0.032	0.033	17.553	29.037	33.895	35.466	41.747
0.00056	0.00116	0.00145	0.00153	0.00161	0.85068	1.40721	1.64267	1.71878	2.02321
9.614E-05	9.099E-05	8.509E-05	7.014E-05	6.501E-05	6.402E-05	5.750E-05	5.330E-05	4.401E-05	3.983E-05
43.563	43.809	47.048	47.146	48.814	56.323	56.568	61.378	62.016	67.659
2.11121	2.12310	2.28007	2.28482	2.36569	2.72958	2.74147	2.97455	3.00546	3.27897
3.601E-05	2.899E-05	2.776E-05	2.054E-05	1.959E-05	1.510E-05	1.232E-05	8.325E-06	4.480E-06	2.091E-06
68.494	75.806	76.100	77.425	79.290	79.339	82.284	82.873	85.719	89.105
3.31941	3.67378	3.68805	3.75227	3.84264	3.84502	3.98772	4.01626	4.15421	4.31831
1.254E-06	8.476E-07								
96.810	100.000								
4.69171	4.84630								

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 2.021
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 2.972
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 3.671

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)

```
  9  1      -6.36563 -10.61414  -0.96686
  9  2      -8.49120 -16.64203  -3.71216
  9  3      -9.03426 -19.07129  -4.89750
  9  4      -9.83966 -21.95903  -6.42948
  9  5     -10.44855      NUMXQ(K)=  5
    5.968E-04               0.048              1.000
    4.372E-04               0.145              3.000
    3.744E-04               0.242              5.000
    2.997E-04               0.485             10.000
    2.610E-04               0.727             15.000
    2.356E-04               0.969             20.000
    2.171E-04               1.212             25.000
    1.957E-04               1.454             30.000
    1.558E-04               1.696             35.000
    1.273E-04               1.939             40.000
    1.023E-04               2.181             45.000
    8.231E-05               2.423             50.000
    6.737E-05               2.665             55.000
    5.596E-05               2.908             60.000
    4.527E-05               3.150             65.000
    3.658E-05               3.392             70.000
    2.991E-05               3.635             75.000

    2.966E-04               0.5               10.32

ANNUAL AVERAGE =   3.81E-06

K=  9     FIVEXQ(K)= 2.966E-04     FIVEPR(K)=10.317
```

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 13.7 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE NNE SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 10.0 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.4	3.24	823.	0.	0.	157.1	310.1	157.1	4.518E-06	4.480E-06	4.480E-06
A	3.1	3.55	823.	0.	0.	157.1	310.1	157.1	2.108E-06	2.091E-06	2.091E-06
A	5.2	3.66	823.	0.	0.	157.1	310.1	157.1	1.265E-06	1.254E-06	1.254E-06
A	7.6	1.05	823.	0.	0.	157.1	310.1	157.1	8.548E-07	8.476E-07	8.476E-07
A	9.9	0.10	823.	0.	0.	157.1	310.1	157.1	6.589E-07	6.534E-07	6.534E-07
C	0.2	0.00	823.	0.	0.	89.7	51.2	89.7	3.356E-04	3.080E-04	3.080E-04
C	1.4	0.42	823.	0.	0.	89.7	51.2	89.7	4.795E-05	4.401E-05	4.401E-05
C	3.1	1.88	823.	0.	0.	89.7	51.2	89.7	2.238E-05	2.054E-05	2.054E-05
C	5.2	1.78	823.	0.	0.	89.7	51.2	89.7	1.343E-05	1.232E-05	1.232E-05
C	7.6	0.31	823.	0.	0.	89.7	51.2	89.7	9.071E-06	8.325E-06	8.325E-06
C	9.9	0.10	823.	0.	0.	89.7	51.2	89.7	6.992E-06	6.417E-06	6.417E-06
D	0.2	0.00	823.	0.	0.	63.2	27.1	124.7	4.551E-04	7.248E-04	4.551E-04
D	1.4	1.78	823.	0.	0.	63.2	27.1	124.7	6.501E-05	1.035E-04	6.501E-05
D	3.1	6.59	823.	0.	0.	63.2	27.1	95.0	3.983E-05	4.832E-05	3.983E-05
D	5.2	5.96	823.	0.	0.	63.2	27.1	69.3	3.278E-05	2.899E-05	2.899E-05
D	7.6	1.46	823.	0.	0.	63.2	27.1	63.2	2.429E-05	1.959E-05	1.959E-05
E	0.2	0.02	823.	0.	0.	44.9	18.7	132.5	6.730E-04	1.332E-03	6.730E-04
E	1.3	4.70	823.	0.	0.	44.9	18.7	132.5	9.614E-05	1.903E-04	9.614E-05
E	2.9	5.33	823.	0.	0.	44.9	18.7	92.8	6.402E-05	8.883E-05	6.402E-05
E	4.8	2.51	823.	0.	0.	44.9	18.7	56.2	6.350E-05	5.330E-05	5.330E-05
E	7.1	0.10	823.	0.	0.	44.9	18.7	44.9	5.365E-05	3.601E-05	3.601E-05
F	0.2	0.01	823.	0.	0.	31.0	12.0	121.7	1.141E-03	2.127E-03	1.141E-03
F	1.3	5.33	823.	0.	0.	31.0	12.0	121.7	1.630E-04	3.039E-04	1.630E-04
F	2.9	4.60	823.	0.	0.	31.0	12.0	77.6	1.193E-04	1.418E-04	1.193E-04
F	4.8	1.46	823.	0.	0.	31.0	12.0	41.1	1.351E-04	8.509E-05	8.509E-05
G	0.2	0.02	823.	0.	0.	21.4	7.7	125.7	1.720E-03	3.367E-03	1.720E-03
G	1.3	28.54	823.	0.	0.	21.4	7.7	125.7	2.457E-04	4.809E-04	2.457E-04
G	2.9	14.74	823.	0.	0.	21.4	7.7	70.2	2.053E-04	2.244E-04	2.053E-04
G	4.8	0.73	823.	0.	0.	21.4	7.7	30.8	2.805E-04	1.347E-04	1.347E-04

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 13.7 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

NNE SECTOR BOUNDARY DISTANCE = 823.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.720E-03	1.141E-03	6.730E-04	4.551E-04	3.080E-04	2.457E-04	2.053E-04	1.630E-04	1.347E-04	1.193E-04
0.019	0.032	0.048	0.049	0.051	28.593	43.334	48.666	49.398	53.998
0.00043	0.00074	0.00108	0.00113	0.00115	0.65044	0.98579	1.10708	1.12373	1.22838
9.614E-05	8.509E-05	6.501E-05	6.402E-05	5.330E-05	4.401E-05	3.983E-05	3.601E-05	2.899E-05	2.054E-05
58.703	60.167	61.944	67.276	69.785	70.203	76.790	76.895	82.854	84.736
1.33540	1.36870	1.40913	1.53043	1.58751	1.59702	1.74686	1.74924	1.88480	1.92761
1.959E-05	1.232E-05	8.325E-06	6.417E-06	4.480E-06	2.091E-06	1.254E-06	8.476E-07	6.534E-07	
86.199	87.977	88.290	88.395	91.636	95.191	98.850	99.895	100.000	
1.96091	2.00134	2.00848	2.01085	2.08458	2.16545	2.24869	2.27247	2.27485	

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 0.985
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 1.106
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 1.334
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 1.529
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(7)= 1.745
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(8)= 1.883

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
10	1	-6.36563	-10.76747	-0.98872

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 10   2      -8.31154 -11.25139  -1.18354
 10   3      -8.49120 -20.77166  -5.26572
 10   4      -8.72174 -25.46342  -7.31598
 10   5      -9.24972 -26.05258  -7.58183
 10   6      -9.65636 -29.00304  -8.94616
 10   7     -10.13086 -31.78929 -10.26695
 10   8     -10.44855     NUMXQ(K)=  8
    6.749E-04               0.023              1.000
    4.998E-04               0.068              3.000
    4.308E-04               0.114              5.000
    3.485E-04               0.227             10.000
    3.059E-04               0.341             15.000
    2.779E-04               0.455             20.000
    2.575E-04               0.569             25.000
    2.407E-04               0.682             30.000
    2.254E-04               0.796             35.000
    2.126E-04               0.910             40.000
    1.905E-04               1.024             45.000
    1.512E-04               1.137             50.000
    1.157E-04               1.251             55.000
    9.012E-05               1.365             60.000
    7.099E-05               1.479             65.000
    5.557E-05               1.592             70.000
    4.338E-05               1.706             75.000
    3.358E-05               1.820             80.000

    2.691E-04               0.5               21.98

ANNUAL AVERAGE =   2.47E-06

K= 10     FIVEXQ(K)= 2.691E-04     FIVEPR(K)=21.979
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 13.7 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE NE SECTOR.

STABILITY CLASS	WINDSPEED AT 10.0 METERS METER/SEC	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.4	2.24	823.	0.	0.	157.1	310.1	157.1	4.518E-06	4.480E-06	4.480E-06
A	3.1	1.31	823.	0.	0.	157.1	310.1	157.1	2.108E-06	2.091E-06	2.091E-06
A	5.2	2.47	823.	0.	0.	157.1	310.1	157.1	1.265E-06	1.254E-06	1.254E-06
A	7.6	0.08	823.	0.	0.	157.1	310.1	157.1	8.548E-07	8.476E-07	8.476E-07
C	0.2	0.00	823.	0.	0.	89.7	51.2	89.7	3.356E-04	3.080E-04	3.080E-04
C	1.4	0.39	823.	0.	0.	89.7	51.2	89.7	4.795E-05	4.401E-05	4.401E-05
C	3.1	1.24	823.	0.	0.	89.7	51.2	89.7	2.238E-05	2.054E-05	2.054E-05
C	5.2	3.24	823.	0.	0.	89.7	51.2	89.7	1.343E-05	1.232E-05	1.232E-05
C	7.6	0.39	823.	0.	0.	89.7	51.2	89.7	9.071E-06	8.325E-06	8.325E-06
D	0.2	0.00	823.	0.	0.	63.2	27.1	124.7	4.551E-04	7.248E-04	4.551E-04
D	1.4	1.93	823.	0.	0.	63.2	27.1	124.7	6.501E-05	1.035E-04	6.501E-05
D	3.1	5.41	823.	0.	0.	63.2	27.1	95.0	3.983E-05	4.832E-05	3.983E-05
D	5.2	5.56	823.	0.	0.	63.2	27.1	69.3	3.278E-05	2.899E-05	2.899E-05
D	7.6	1.08	823.	0.	0.	63.2	27.1	63.2	2.429E-05	1.959E-05	1.959E-05
E	0.2	0.02	823.	0.	0.	44.9	18.7	132.5	6.730E-04	1.332E-03	6.730E-04
E	1.3	4.71	823.	0.	0.	44.9	18.7	132.5	9.614E-05	1.903E-04	9.614E-05
E	2.9	7.03	823.	0.	0.	44.9	18.7	92.8	6.402E-05	8.883E-05	6.402E-05
E	4.8	2.32	823.	0.	0.	44.9	18.7	56.2	6.350E-05	5.330E-05	5.330E-05
E	7.1	0.08	823.	0.	0.	44.9	18.7	44.9	5.365E-05	3.601E-05	3.601E-05
F	0.2	0.01	823.	0.	0.	31.0	12.0	121.7	1.141E-03	2.127E-03	1.141E-03
F	1.3	5.79	823.	0.	0.	31.0	12.0	121.7	1.630E-04	3.039E-04	1.630E-04
F	2.9	4.09	823.	0.	0.	31.0	12.0	77.6	1.193E-04	1.418E-04	1.193E-04
F	4.8	0.31	823.	0.	0.	31.0	12.0	41.1	1.351E-04	8.509E-05	8.509E-05
G	0.2	0.02	823.	0.	0.	21.4	7.7	125.7	1.720E-03	3.367E-03	1.720E-03
G	1.3	34.29	823.	0.	0.	21.4	7.7	125.7	2.457E-04	4.809E-04	2.457E-04
G	2.9	15.68	823.	0.	0.	21.4	7.7	70.2	2.053E-04	2.244E-04	2.053E-04
G	4.8	0.23	823.	0.	0.	21.4	7.7	30.8	2.805E-04	1.347E-04	1.347E-04
G	21.0	0.08	823.	0.	0.	21.4	7.7	21.4	9.182E-05	3.061E-05	3.061E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 13.7 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

NE SECTOR BOUNDARY DISTANCE = 823.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.720E-03	1.141E-03	6.730E-04	4.551E-04	3.080E-04	2.457E-04	2.053E-04	1.630E-04	1.347E-04	1.193E-04
0.022	0.037	0.053	0.055	0.056	34.349	50.028	55.821	56.052	60.146
0.00069	0.00115	0.00162	0.00168	0.00171	1.05770	1.54050	1.71888	1.72601	1.85207
9.614E-05	8.509E-05	6.501E-05	6.402E-05	5.330E-05	4.401E-05	3.983E-05	3.601E-05	3.061E-05	2.899E-05
64.857	65.166	67.097	74.126	76.443	76.829	82.236	82.313	82.390	87.951
1.99715	2.00666	2.06612	2.28255	2.35390	2.36579	2.53227	2.53465	2.53703	2.70827
2.054E-05	1.959E-05	1.232E-05	8.325E-06	4.480E-06	2.091E-06	1.254E-06	8.476E-07		
89.187	90.268	93.512	93.898	96.138	97.451	99.923	100.000		
2.74633	2.77962	2.87951	2.89140	2.96038	3.00081	3.07692	3.07929		

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 1.539
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 1.717
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 2.280
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 2.530
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(7)= 2.706

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
11	1	-6.36563	-10.50992	-0.95347
11	2	-8.31154	-11.15452	-1.23304

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 11   3      -8.49120 -19.83363  -5.25122
 11   4      -8.72174 -25.62290  -7.98710
 11   5      -9.65636 -31.14607 -10.75001
 11   6     -10.13086 -31.57259 -10.96819
 11   7     -10.44855     NUMXQ(K)=  7
    7.141E-04              0.031              1.000
    5.310E-04              0.092              3.000
    4.585E-04              0.154              5.000
    3.716E-04              0.308             10.000
    3.264E-04              0.462             15.000
    2.966E-04              0.616             20.000
    2.748E-04              0.770             25.000
    2.578E-04              0.924             30.000
    2.435E-04              1.078             35.000
    2.287E-04              1.232             40.000
    2.161E-04              1.386             45.000
    2.053E-04              1.540             50.000
    1.682E-04              1.694             55.000
    1.290E-04              1.848             60.000
    9.919E-05              2.002             65.000
    7.757E-05              2.156             70.000
    6.070E-05              2.309             75.000
    4.521E-05              2.463             80.000
    3.408E-05              2.617             85.000

    3.180E-04              0.5               16.24

ANNUAL AVERAGE =   3.80E-06

K= 11     FIVEXQ(K)= 3.180E-04     FIVEPR(K)=16.237
```

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 13.7 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE ENE SECTOR.

STABILITY CLASS	WINDSPEED AT 10.0 METERS METER/SEC	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.4	2.00	823.	0.	0.	157.1	310.1	157.1	4.518E-06	4.480E-06	4.480E-06
A	3.1	0.79	823.	0.	0.	157.1	310.1	157.1	2.108E-06	2.091E-06	2.091E-06
A	5.2	1.88	823.	0.	0.	157.1	310.1	157.1	1.265E-06	1.254E-06	1.254E-06
A	7.6	0.12	823.	0.	0.	157.1	310.1	157.1	8.548E-07	8.476E-07	8.476E-07
C	0.2	0.00	823.	0.	0.	89.7	51.2	89.7	3.356E-04	3.080E-04	3.080E-04
C	1.4	0.61	823.	0.	0.	89.7	51.2	89.7	4.795E-05	4.401E-05	4.401E-05
C	3.1	0.91	823.	0.	0.	89.7	51.2	89.7	2.238E-05	2.054E-05	2.054E-05
C	5.2	1.94	823.	0.	0.	89.7	51.2	89.7	1.343E-05	1.232E-05	1.232E-05
C	7.6	0.24	823.	0.	0.	89.7	51.2	89.7	9.071E-06	8.325E-06	8.325E-06
C	9.9	0.06	823.	0.	0.	89.7	51.2	89.7	6.992E-06	6.417E-06	6.417E-06
D	0.2	0.00	823.	0.	0.	63.2	27.1	124.7	4.551E-04	7.248E-04	4.551E-04
D	1.4	1.69	823.	0.	0.	63.2	27.1	124.7	6.501E-05	1.035E-04	6.501E-05
D	3.1	5.02	823.	0.	0.	63.2	27.1	95.0	3.983E-05	4.832E-05	3.983E-05
D	5.2	5.14	823.	0.	0.	63.2	27.1	69.3	3.278E-05	2.899E-05	2.899E-05
D	7.6	0.67	823.	0.	0.	63.2	27.1	63.2	2.429E-05	1.959E-05	1.959E-05
E	0.2	0.01	823.	0.	0.	44.9	18.7	132.5	6.730E-04	1.332E-03	6.730E-04
E	1.3	2.96	823.	0.	0.	44.9	18.7	132.5	9.614E-05	1.903E-04	9.614E-05
E	2.9	5.63	823.	0.	0.	44.9	18.7	92.8	6.402E-05	8.883E-05	6.402E-05
E	4.8	1.27	823.	0.	0.	44.9	18.7	56.2	6.350E-05	5.330E-05	5.330E-05
E	7.1	0.06	823.	0.	0.	44.9	18.7	44.9	5.365E-05	3.601E-05	3.601E-05
F	0.2	0.01	823.	0.	0.	31.0	12.0	121.7	1.141E-03	2.127E-03	1.141E-03
F	1.3	5.32	823.	0.	0.	31.0	12.0	121.7	1.630E-04	3.039E-04	1.630E-04
F	2.9	4.96	823.	0.	0.	31.0	12.0	77.6	1.193E-04	1.418E-04	1.193E-04
F	4.8	0.67	823.	0.	0.	31.0	12.0	41.1	1.351E-04	8.509E-05	8.509E-05
G	0.2	0.02	823.	0.	0.	21.4	7.7	125.7	1.720E-03	3.367E-03	1.720E-03
G	1.3	35.94	823.	0.	0.	21.4	7.7	125.7	2.457E-04	4.809E-04	2.457E-04
G	2.9	21.36	823.	0.	0.	21.4	7.7	70.2	2.053E-04	2.244E-04	2.053E-04
G	4.8	0.42	823.	0.	0.	21.4	7.7	30.8	2.805E-04	1.347E-04	1.347E-04
G	7.1	0.06	823.	0.	0.	21.4	7.7	21.4	2.730E-04	9.099E-05	9.099E-05
G	21.0	0.24	823.	0.	0.	21.4	7.7	21.4	9.182E-05	3.061E-05	3.061E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 13.7 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

ENE SECTOR BOUNDARY DISTANCE = 823.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.720E-03	1.141E-03	6.730E-04	4.551E-04	3.080E-04	2.457E-04	2.053E-04	1.630E-04	1.347E-04	1.193E-04
0.024	0.037	0.047	0.049	0.050	35.989	57.346	62.670	63.094	68.055
0.00092	0.00146	0.00184	0.00191	0.00197	1.41471	2.25427	2.46356	2.48021	2.67523
9.614E-05	9.099E-05	8.509E-05	6.501E-05	6.402E-05	5.330E-05	4.401E-05	3.983E-05	3.601E-05	3.061E-05
71.019	71.080	71.745	73.439	79.066	80.337	80.942	85.963	86.024	86.266
2.79177	2.79415	2.82031	2.88691	3.10809	3.15804	3.18182	3.37923	3.38160	3.39112
2.899E-05	2.054E-05	1.959E-05	1.232E-05	8.325E-06	6.417E-06	4.480E-06	2.091E-06	1.254E-06	8.476E-07
91.409	92.316	92.982	94.918	95.160	95.220	97.217	98.003	99.879	100.000
3.59328	3.62895	3.65511	3.73122	3.74073	3.74311	3.82160	3.85252	3.92625	3.93100

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED
CHI/Q WITH RESPECT TO WHEN THE WIND BLOWS
SEC/CUBIC METER THE TOTAL TIME INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 2.461
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 2.673
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 3.105
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(7)= 3.590
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(8)= 3.728

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
12	1	-6.36563	-10.35528	-0.93167
12	2	-8.31154	-10.39308	-0.94890

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 12   3      -8.49120 -20.77271  -6.12761
 12   4      -8.72174 -26.07578  -8.82408
 12   5      -9.03426 -27.32174  -9.46923
 12   6      -9.65636 -32.32870 -12.15313
 12   7     -10.44855 -99.97153 -49.72472
 12   8     -11.30416     NUMXQ(K)=  8
    7.268E-04               0.039              1.000
    5.411E-04               0.118              3.000
    4.674E-04               0.197              5.000
    3.788E-04               0.393             10.000
    3.326E-04               0.590             15.000
    3.021E-04               0.786             20.000
    2.798E-04               0.983             25.000
    2.624E-04               1.179             30.000
    2.482E-04               1.376             35.000
    2.361E-04               1.572             40.000
    2.257E-04               1.769             45.000
    2.167E-04               1.966             50.000
    2.087E-04               2.162             55.000
    1.826E-04               2.359             60.000
    1.420E-04               2.555             65.000
    1.062E-04               2.752             70.000
    7.984E-05               2.948             75.000
    6.009E-05               3.145             80.000
    4.323E-05               3.341             85.000
    3.159E-05               3.538             90.000

    3.509E-04               0.5               12.72

ANNUAL AVERAGE =   5.07E-06

K= 12     FIVEXQ(K)= 3.509E-04     FIVEPR(K)=12.719
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 13.7 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE E SECTOR.

STABILITY CLASS	WINDSPEED AT 10.0 METERS METER/SEC	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.4	1.22	823.	0.	0.	157.1	310.1	157.1	4.518E-06	4.480E-06	4.480E-06
A	3.1	0.92	823.	0.	0.	157.1	310.1	157.1	2.108E-06	2.091E-06	2.091E-06
A	5.2	1.75	823.	0.	0.	157.1	310.1	157.1	1.265E-06	1.254E-06	1.254E-06
A	7.6	1.02	823.	0.	0.	157.1	310.1	157.1	8.548E-07	8.476E-07	8.476E-07
C	0.2	0.00	823.	0.	0.	89.7	51.2	89.7	3.356E-04	3.080E-04	3.080E-04
C	1.4	0.33	823.	0.	0.	89.7	51.2	89.7	4.795E-05	4.401E-05	4.401E-05
C	3.1	0.76	823.	0.	0.	89.7	51.2	89.7	2.238E-05	2.054E-05	2.054E-05
C	5.2	2.01	823.	0.	0.	89.7	51.2	89.7	1.343E-05	1.232E-05	1.232E-05
C	7.6	0.82	823.	0.	0.	89.7	51.2	89.7	9.071E-06	8.325E-06	8.325E-06
C	9.9	0.03	823.	0.	0.	89.7	51.2	89.7	6.992E-06	6.417E-06	6.417E-06
D	0.2	0.00	823.	0.	0.	63.2	27.1	124.7	4.551E-04	7.248E-04	4.551E-04
D	1.4	1.05	823.	0.	0.	63.2	27.1	124.7	6.501E-05	1.035E-04	6.501E-05
D	3.1	3.33	823.	0.	0.	63.2	27.1	95.0	3.983E-05	4.832E-05	3.983E-05
D	5.2	6.36	823.	0.	0.	63.2	27.1	69.3	3.278E-05	2.899E-05	2.899E-05
D	7.6	2.93	823.	0.	0.	63.2	27.1	63.2	2.429E-05	1.959E-05	1.959E-05
D	9.9	0.20	823.	0.	0.	63.2	27.1	63.2	1.872E-05	1.510E-05	1.510E-05
D	22.7	0.03	823.	0.	0.	63.2	27.1	63.2	8.169E-06	6.589E-06	6.589E-06
E	0.2	0.01	823.	0.	0.	44.9	18.7	132.5	6.730E-04	1.332E-03	6.730E-04
E	1.3	2.14	823.	0.	0.	44.9	18.7	132.5	9.614E-05	1.903E-04	9.614E-05
E	2.9	4.48	823.	0.	0.	44.9	18.7	92.8	6.402E-05	8.883E-05	6.402E-05
E	4.8	2.41	823.	0.	0.	44.9	18.7	56.2	6.350E-05	5.330E-05	5.330E-05
E	7.1	0.23	823.	0.	0.	44.9	18.7	44.9	5.365E-05	3.601E-05	3.601E-05
F	0.2	0.01	823.	0.	0.	31.0	12.0	121.7	1.141E-03	2.127E-03	1.141E-03
F	1.3	3.99	823.	0.	0.	31.0	12.0	121.7	1.630E-04	3.039E-04	1.630E-04
F	2.9	4.22	823.	0.	0.	31.0	12.0	77.6	1.193E-04	1.418E-04	1.193E-04
F	4.8	0.69	823.	0.	0.	31.0	12.0	41.1	1.351E-04	8.509E-05	8.509E-05
F	7.1	0.03	823.	0.	0.	31.0	12.0	31.0	1.210E-04	5.750E-05	5.750E-05
F	9.2	0.03	823.	0.	0.	31.0	12.0	31.0	9.328E-05	4.432E-05	4.432E-05
F	21.0	0.10	823.	0.	0.	31.0	12.0	31.0	4.071E-05	1.934E-05	1.934E-05
G	0.2	0.02	823.	0.	0.	21.4	7.7	125.7	1.720E-03	3.367E-03	1.720E-03
G	1.3	30.43	823.	0.	0.	21.4	7.7	125.7	2.457E-04	4.809E-04	2.457E-04
G	2.9	26.18	823.	0.	0.	21.4	7.7	70.2	2.053E-04	2.244E-04	2.053E-04
G	4.8	1.98	823.	0.	0.	21.4	7.7	30.8	2.805E-04	1.347E-04	1.347E-04

G	21.0	0.26	823.	0.	0.	21.4	7.7	21.4	9.182E-05	3.061E-05	3.061E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 13.7 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

E SECTOR BOUNDARY DISTANCE = 823.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.720E-03	1.141E-03	6.730E-04	4.551E-04	3.080E-04	2.457E-04	2.053E-04	1.630E-04	1.347E-04	1.193E-04
0.020	0.030	0.037	0.038	0.039	30.469	56.646	60.635	62.614	66.834
0.00144	0.00218	0.00268	0.00276	0.00282	2.19803	4.08644	4.37422	4.51692	4.82135
9.614E-05	8.509E-05	6.501E-05	6.402E-05	5.750E-05	5.330E-05	4.432E-05	4.401E-05	3.983E-05	3.601E-05
68.977	69.669	70.724	75.208	75.241	77.647	77.680	78.010	81.340	81.571
4.97594	5.02589	5.10200	5.42545	5.42783	5.60145	5.60383	5.62761	5.86782	5.88447
3.061E-05	2.899E-05	2.054E-05	1.959E-05	1.934E-05	1.510E-05	1.232E-05	8.325E-06	6.589E-06	6.417E-06
81.834	88.197	88.955	91.890	91.989	92.186	94.198	95.022	95.055	95.088
5.90350	6.36252	6.41722	6.62889	6.63603	6.65030	6.79538	6.85484	6.85722	6.85959
4.480E-06	2.091E-06	1.254E-06	8.476E-07						
96.308	97.231	98.978	100.000						
6.94759	7.01419	7.14024	7.21397						

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 4.818
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 5.422
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 6.359
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 6.625

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  K   I    XQSAVE(K,I)   XQINT(K,I) XQSLOP(K,I)
 13   1       -6.36563 -10.00668  -0.87040
 13   2       -8.49120 -20.56132  -6.93235
 13   3       -9.03426 -27.01857 -10.81573
 13   4       -9.65636 -25.56650  -9.91117
 13   5      -10.44855 -38.88255 -18.64103
 13   6      -10.84059     NUMXQ(K)=  6
    7.221E-04               0.072              1.000
    5.405E-04               0.216              3.000
    4.677E-04               0.361              5.000
    3.794E-04               0.721             10.000
    3.330E-04               1.082             15.000
    3.023E-04               1.443             20.000
    2.797E-04               1.803             25.000
    2.620E-04               2.164             30.000
    2.475E-04               2.525             35.000
    2.354E-04               2.886             40.000
    2.249E-04               3.246             45.000
    2.158E-04               3.607             50.000
    2.077E-04               3.968             55.000
    1.703E-04               4.328             60.000
    1.308E-04               4.689             65.000
    9.361E-05               5.050             70.000
    6.497E-05               5.410             75.000
    4.724E-05               5.771             80.000
    3.492E-05               6.132             85.000
    2.390E-05               6.493             90.000

    4.246E-04               0.5                6.93

ANNUAL AVERAGE =   8.38E-06

K= 13     FIVEXQ(K)= 4.246E-04     FIVEPR(K)= 6.931
```

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 13.7 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE ESE SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 10.0 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.4	0.93	823.	0.	0.	157.1	310.1	157.1	4.518E-06	4.480E-06	4.480E-06
A	3.1	0.75	823.	0.	0.	157.1	310.1	157.1	2.108E-06	2.091E-06	2.091E-06
A	5.2	1.54	823.	0.	0.	157.1	310.1	157.1	1.265E-06	1.254E-06	1.254E-06
A	7.6	2.10	823.	0.	0.	157.1	310.1	157.1	8.548E-07	8.476E-07	8.476E-07
A	9.9	0.55	823.	0.	0.	157.1	310.1	157.1	6.589E-07	6.534E-07	6.534E-07
A	22.7	0.11	823.	0.	0.	157.1	310.1	157.1	2.875E-07	2.851E-07	2.851E-07
C	0.2	0.00	823.	0.	0.	89.7	51.2	89.7	3.356E-04	3.080E-04	3.080E-04
C	1.4	0.29	823.	0.	0.	89.7	51.2	89.7	4.795E-05	4.401E-05	4.401E-05
C	3.1	0.53	823.	0.	0.	89.7	51.2	89.7	2.238E-05	2.054E-05	2.054E-05
C	5.2	2.10	823.	0.	0.	89.7	51.2	89.7	1.343E-05	1.232E-05	1.232E-05
C	7.6	2.96	823.	0.	0.	89.7	51.2	89.7	9.071E-06	8.325E-06	8.325E-06
C	9.9	1.30	823.	0.	0.	89.7	51.2	89.7	6.992E-06	6.417E-06	6.417E-06
C	22.7	0.13	823.	0.	0.	89.7	51.2	89.7	3.051E-06	2.800E-06	2.800E-06
D	0.2	0.00	823.	0.	0.	63.2	27.1	124.7	4.551E-04	7.248E-04	4.551E-04
D	1.4	0.88	823.	0.	0.	63.2	27.1	124.7	6.501E-05	1.035E-04	6.501E-05
D	3.1	2.73	823.	0.	0.	63.2	27.1	95.0	3.983E-05	4.832E-05	3.983E-05
D	5.2	7.92	823.	0.	0.	63.2	27.1	69.3	3.278E-05	2.899E-05	2.899E-05
D	7.6	12.37	823.	0.	0.	63.2	27.1	63.2	2.429E-05	1.959E-05	1.959E-05
D	9.9	2.71	823.	0.	0.	63.2	27.1	63.2	1.872E-05	1.510E-05	1.510E-05
D	22.7	0.37	823.	0.	0.	63.2	27.1	63.2	8.169E-06	6.589E-06	6.589E-06
E	0.2	0.00	823.	0.	0.	44.9	18.7	132.5	6.730E-04	1.332E-03	6.730E-04
E	1.3	1.37	823.	0.	0.	44.9	18.7	132.5	9.614E-05	1.903E-04	9.614E-05
E	2.9	3.33	823.	0.	0.	44.9	18.7	92.8	6.402E-05	8.883E-05	6.402E-05
E	4.8	6.75	823.	0.	0.	44.9	18.7	56.2	6.350E-05	5.330E-05	5.330E-05
E	7.1	2.91	823.	0.	0.	44.9	18.7	44.9	5.365E-05	3.601E-05	3.601E-05
E	9.2	0.29	823.	0.	0.	44.9	18.7	44.9	4.135E-05	2.776E-05	2.776E-05
E	21.0	0.13	823.	0.	0.	44.9	18.7	44.9	1.804E-05	1.211E-05	1.211E-05
F	0.2	0.01	823.	0.	0.	31.0	12.0	121.7	1.141E-03	2.127E-03	1.141E-03
F	1.3	2.18	823.	0.	0.	31.0	12.0	121.7	1.630E-04	3.039E-04	1.630E-04
F	2.9	3.75	823.	0.	0.	31.0	12.0	77.6	1.193E-04	1.418E-04	1.193E-04
F	4.8	3.42	823.	0.	0.	31.0	12.0	41.1	1.351E-04	8.509E-05	8.509E-05
F	7.1	0.29	823.	0.	0.	31.0	12.0	31.0	1.210E-04	5.750E-05	5.750E-05
G	0.2	0.01	823.	0.	0.	21.4	7.7	125.7	1.720E-03	3.367E-03	1.720E-03

G	1.3	17.62	823.	0.	0.	21.4	7.7	125.7	2.457E-04	4.809E-04	2.457E-04
G	2.9	13.21	823.	0.	0.	21.4	7.7	70.2	2.053E-04	2.244E-04	2.053E-04
G	4.8	4.15	823.	0.	0.	21.4	7.7	30.8	2.805E-04	1.347E-04	1.347E-04
G	7.1	0.11	823.	0.	0.	21.4	7.7	21.4	2.730E-04	9.099E-05	9.099E-05
G	21.0	0.20	823.	0.	0.	21.4	7.7	21.4	9.182E-05	3.061E-05	3.061E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 13.7 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

ESE SECTOR BOUNDARY DISTANCE = 823.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.720E-03	1.141E-03	6.730E-04	4.551E-04	3.080E-04	2.457E-04	2.053E-04	1.630E-04	1.347E-04	1.193E-04
0.012	0.017	0.022	0.023	0.023	17.645	30.857	33.040	37.186	40.936
0.00124	0.00185	0.00233	0.00243	0.00251	1.90281	3.32744	3.56289	4.01002	4.41434
9.614E-05	9.099E-05	8.509E-05	6.501E-05	6.402E-05	5.750E-05	5.330E-05	4.401E-05	3.983E-05	3.601E-05
42.303	42.414	45.832	46.714	50.045	50.331	57.080	57.367	60.102	63.013
4.56180	4.57369	4.94233	5.03747	5.39660	5.42752	6.15529	6.18621	6.48113	6.79507
3.061E-05	2.899E-05	2.776E-05	2.054E-05	1.959E-05	1.510E-05	1.232E-05	1.211E-05	8.325E-06	6.589E-06
63.212	71.130	71.416	71.946	84.319	87.031	89.127	89.259	92.214	92.589
6.81647	7.67030	7.70122	7.75830	9.09255	9.38509	9.61103	9.62530	9.94400	9.98443
6.417E-06	4.480E-06	2.800E-06	2.091E-06	1.254E-06	8.476E-07	6.534E-07	2.851E-07		
93.891	94.817	94.949	95.699	97.243	99.338	99.890	100.000		
10.12475	10.22464	10.23891	10.31978	10.48626	10.71220	10.77166	10.78356		

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 4.411
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 6.151
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 9.089
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 9.382

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  K   I    XQSAVE(K,I)  XQINT(K,I) XQSLOP(K,I)
 14   1       -6.36563 -10.12964  -0.89283
 14   2       -8.49120 -16.14328  -4.16980
 14   3       -9.03426 -17.47394  -4.95030
 14   4       -9.83966 -17.30044  -4.83780
 14   5      -10.84059 -30.49912 -14.72232
 14   6      -11.10087     NUMXQ(K)=  6
    6.171E-04              0.108              1.000
    4.537E-04              0.324              3.000
    3.886E-04              0.539              5.000
    3.104E-04              1.078             10.000
    2.696E-04              1.618             15.000
    2.427E-04              2.157             20.000
    2.230E-04              2.696             25.000
    2.076E-04              3.235             30.000
    1.617E-04              3.774             35.000
    1.248E-04              4.313             40.000
    9.534E-05              4.853             45.000
    7.395E-05              5.392             50.000
    5.848E-05              5.931             55.000
    4.713E-05              6.470             60.000
    3.858E-05              7.009             65.000
    3.194E-05              7.548             70.000
    2.672E-05              8.088             75.000
    2.254E-05              8.627             80.000
    1.834E-05              9.166             85.000

    3.978E-04              0.5                4.64

ANNUAL AVERAGE =   7.95E-06

K= 14     FIVEXQ(K)= 3.978E-04     FIVEPR(K)= 4.637
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 13.7 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE SE SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 10.0 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.4	0.47	823.	0.	0.	157.1	310.1	157.1	4.518E-06	4.480E-06	4.480E-06
A	3.1	2.38	823.	0.	0.	157.1	310.1	157.1	2.108E-06	2.091E-06	2.091E-06
A	5.2	5.09	823.	0.	0.	157.1	310.1	157.1	1.265E-06	1.254E-06	1.254E-06
A	7.6	5.12	823.	0.	0.	157.1	310.1	157.1	8.548E-07	8.476E-07	8.476E-07
A	9.9	2.15	823.	0.	0.	157.1	310.1	157.1	6.589E-07	6.534E-07	6.534E-07
A	22.7	0.58	823.	0.	0.	157.1	310.1	157.1	2.875E-07	2.851E-07	2.851E-07
C	0.2	0.00	823.	0.	0.	89.7	51.2	89.7	3.356E-04	3.080E-04	3.080E-04
C	1.4	0.35	823.	0.	0.	89.7	51.2	89.7	4.795E-05	4.401E-05	4.401E-05
C	3.1	1.32	823.	0.	0.	89.7	51.2	89.7	2.238E-05	2.054E-05	2.054E-05
C	5.2	2.18	823.	0.	0.	89.7	51.2	89.7	1.343E-05	1.232E-05	1.232E-05
C	7.6	3.17	823.	0.	0.	89.7	51.2	89.7	9.071E-06	8.325E-06	8.325E-06
C	9.9	1.21	823.	0.	0.	89.7	51.2	89.7	6.992E-06	6.417E-06	6.417E-06
C	22.7	0.45	823.	0.	0.	89.7	51.2	89.7	3.051E-06	2.800E-06	2.800E-06
D	0.2	0.00	823.	0.	0.	63.2	27.1	124.7	4.551E-04	7.248E-04	4.551E-04
D	1.4	0.89	823.	0.	0.	63.2	27.1	124.7	6.501E-05	1.035E-04	6.501E-05
D	3.1	3.20	823.	0.	0.	63.2	27.1	95.0	3.983E-05	4.832E-05	3.983E-05
D	5.2	7.15	823.	0.	0.	63.2	27.1	69.3	3.278E-05	2.899E-05	2.899E-05
D	7.6	8.15	823.	0.	0.	63.2	27.1	63.2	2.429E-05	1.959E-05	1.959E-05
D	9.9	3.95	823.	0.	0.	63.2	27.1	63.2	1.872E-05	1.510E-05	1.510E-05
D	22.7	0.98	823.	0.	0.	63.2	27.1	63.2	8.169E-06	6.589E-06	6.589E-06
E	0.2	0.00	823.	0.	0.	44.9	18.7	132.5	6.730E-04	1.332E-03	6.730E-04
E	1.3	1.20	823.	0.	0.	44.9	18.7	132.5	9.614E-05	1.903E-04	9.614E-05
E	2.9	3.69	823.	0.	0.	44.9	18.7	92.8	6.402E-05	8.883E-05	6.402E-05
E	4.8	5.59	823.	0.	0.	44.9	18.7	56.2	6.350E-05	5.330E-05	5.330E-05
E	7.1	3.17	823.	0.	0.	44.9	18.7	44.9	5.365E-05	3.601E-05	3.601E-05
E	9.2	0.64	823.	0.	0.	44.9	18.7	44.9	4.135E-05	2.776E-05	2.776E-05
E	21.0	0.04	823.	0.	0.	44.9	18.7	44.9	1.804E-05	1.211E-05	1.211E-05
F	0.2	0.01	823.	0.	0.	31.0	12.0	121.7	1.141E-03	2.127E-03	1.141E-03
F	1.3	2.53	823.	0.	0.	31.0	12.0	121.7	1.630E-04	3.039E-04	1.630E-04
F	2.9	3.19	823.	0.	0.	31.0	12.0	77.6	1.193E-04	1.418E-04	1.193E-04
F	4.8	3.33	823.	0.	0.	31.0	12.0	41.1	1.351E-04	8.509E-05	8.509E-05
F	7.1	0.35	823.	0.	0.	31.0	12.0	31.0	1.210E-04	5.750E-05	5.750E-05
F	9.2	0.01	823.	0.	0.	31.0	12.0	31.0	9.328E-05	4.432E-05	4.432E-05
F	21.0	0.03	823.	0.	0.	31.0	12.0	31.0	4.071E-05	1.934E-05	1.934E-05

G	0.2	0.01	823.	0.	0.	21.4	7.7	125.7	1.720E-03	3.367E-03	1.720E-03
G	1.3	13.37	823.	0.	0.	21.4	7.7	125.7	2.457E-04	4.809E-04	2.457E-04
G	2.9	10.70	823.	0.	0.	21.4	7.7	70.2	2.053E-04	2.244E-04	2.053E-04
G	4.8	3.13	823.	0.	0.	21.4	7.7	30.8	2.805E-04	1.347E-04	1.347E-04
G	7.1	0.16	823.	0.	0.	21.4	7.7	21.4	2.730E-04	9.099E-05	9.099E-05
G	21.0	0.04	823.	0.	0.	21.4	7.7	21.4	9.182E-05	3.061E-05	3.061E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 13.7 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

SE SECTOR BOUNDARY DISTANCE = 823.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.720E-03	1.141E-03	6.730E-04	4.551E-04	3.080E-04	2.457E-04	2.053E-04	1.630E-04	1.347E-04	1.193E-04
0.009	0.015	0.019	0.020	0.021	13.387	24.091	26.621	29.750	32.938
0.00142	0.00248	0.00311	0.00326	0.00341	2.17722	3.91817	4.32963	4.83859	5.35707
9.614E-05	9.099E-05	8.509E-05	6.501E-05	6.402E-05	5.750E-05	5.330E-05	4.432E-05	4.401E-05	3.983E-05
34.137	34.298	37.632	38.524	42.209	42.560	48.146	48.161	48.512	51.714
5.55210	5.57826	6.12052	6.26560	6.86494	6.92203	7.83055	7.83293	7.89001	8.41087
3.601E-05	3.061E-05	2.899E-05	2.776E-05	2.054E-05	1.959E-05	1.934E-05	1.510E-05	1.232E-05	1.211E-05
54.887	54.931	62.082	62.725	64.041	72.187	72.216	76.164	78.343	78.387
8.92697	8.93411	10.09712	10.20177	10.41582	11.74056	11.74531	12.38747	12.74184	12.74898
8.325E-06	6.589E-06	6.417E-06	4.480E-06	2.800E-06	2.091E-06	1.254E-06	8.476E-07	6.534E-07	2.851E-07
81.560	82.540	83.754	84.222	84.675	87.058	92.147	97.265	99.415	100.000
13.26508	13.42443	13.62183	13.69794	13.77167	14.15934	14.98700	15.81942	16.16904	16.26418

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 5.353
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 7.827
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 10.094
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 11.738

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  K   I    XQSAVE(K,I)   XQINT(K,I) XQSLOP(K,I)
 15   1       -6.36563 -10.03461  -0.87661
 15   2       -8.49120 -14.90259  -3.64148
 15   3       -9.03426 -15.70042  -4.13656
 15   4       -9.83966 -15.97502  -4.33038
 15   5      -10.44855 -16.13146  -4.45296
 15   6      -10.84059     NUMXQ(K)=  6
    5.787E-04               0.163              1.000
    4.227E-04               0.488              3.000
    3.606E-04               0.813              5.000
    2.858E-04               1.626             10.000
    2.468E-04               2.440             15.000
    2.211E-04               3.253             20.000
    1.928E-04               4.066             25.000
    1.408E-04               4.879             30.000
    1.053E-04               5.692             35.000
    7.965E-05               6.506             40.000
    6.183E-05               7.319             45.000
    4.880E-05               8.132             50.000
    3.894E-05               8.945             55.000
    3.153E-05               9.759             60.000
    2.577E-05              10.572             65.000
    2.125E-05              11.385             70.000

    4.196E-04               0.5                3.07

ANNUAL AVERAGE =    9.87E-06

K= 15      FIVEXQ(K)= 4.196E-04      FIVEPR(K)= 3.074
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 13.7 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE SSE SECTOR.

STABILITY CLASS	WINDSPEED AT 10.0 METERS METER/SEC	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.4	1.45	823.	0.	0.	157.1	310.1	157.1	4.518E-06	4.480E-06	4.480E-06
A	3.1	3.32	823.	0.	0.	157.1	310.1	157.1	2.108E-06	2.091E-06	2.091E-06
A	5.2	8.51	823.	0.	0.	157.1	310.1	157.1	1.265E-06	1.254E-06	1.254E-06
A	7.6	9.43	823.	0.	0.	157.1	310.1	157.1	8.548E-07	8.476E-07	8.476E-07
A	9.9	2.36	823.	0.	0.	157.1	310.1	157.1	6.589E-07	6.534E-07	6.534E-07
A	22.7	0.35	823.	0.	0.	157.1	310.1	157.1	2.875E-07	2.851E-07	2.851E-07
C	0.2	0.00	823.	0.	0.	89.7	51.2	89.7	3.356E-04	3.080E-04	3.080E-04
C	1.4	0.63	823.	0.	0.	89.7	51.2	89.7	4.795E-05	4.401E-05	4.401E-05
C	3.1	1.59	823.	0.	0.	89.7	51.2	89.7	2.238E-05	2.054E-05	2.054E-05
C	5.2	2.79	823.	0.	0.	89.7	51.2	89.7	1.343E-05	1.232E-05	1.232E-05
C	7.6	3.42	823.	0.	0.	89.7	51.2	89.7	9.071E-06	8.325E-06	8.325E-06
C	9.9	1.08	823.	0.	0.	89.7	51.2	89.7	6.992E-06	6.417E-06	6.417E-06
C	22.7	0.33	823.	0.	0.	89.7	51.2	89.7	3.051E-06	2.800E-06	2.800E-06
D	0.2	0.00	823.	0.	0.	63.2	27.1	124.7	4.551E-04	7.248E-04	4.551E-04
D	1.4	1.43	823.	0.	0.	63.2	27.1	124.7	6.501E-05	1.035E-04	6.501E-05
D	3.1	3.48	823.	0.	0.	63.2	27.1	95.0	3.983E-05	4.832E-05	3.983E-05
D	5.2	5.87	823.	0.	0.	63.2	27.1	69.3	3.278E-05	2.899E-05	2.899E-05
D	7.6	6.48	823.	0.	0.	63.2	27.1	63.2	2.429E-05	1.959E-05	1.959E-05
D	9.9	2.34	823.	0.	0.	63.2	27.1	63.2	1.872E-05	1.510E-05	1.510E-05
D	22.7	0.61	823.	0.	0.	63.2	27.1	63.2	8.169E-06	6.589E-06	6.589E-06
E	0.2	0.01	823.	0.	0.	44.9	18.7	132.5	6.730E-04	1.332E-03	6.730E-04
E	1.3	3.28	823.	0.	0.	44.9	18.7	132.5	9.614E-05	1.903E-04	9.614E-05
E	2.9	3.08	823.	0.	0.	44.9	18.7	92.8	6.402E-05	8.883E-05	6.402E-05
E	4.8	3.67	823.	0.	0.	44.9	18.7	56.2	6.350E-05	5.330E-05	5.330E-05
E	7.1	2.18	823.	0.	0.	44.9	18.7	44.9	5.365E-05	3.601E-05	3.601E-05
E	9.2	0.39	823.	0.	0.	44.9	18.7	44.9	4.135E-05	2.776E-05	2.776E-05
E	21.0	0.02	823.	0.	0.	44.9	18.7	44.9	1.804E-05	1.211E-05	1.211E-05
F	0.2	0.01	823.	0.	0.	31.0	12.0	121.7	1.141E-03	2.127E-03	1.141E-03
F	1.3	3.58	823.	0.	0.	31.0	12.0	121.7	1.630E-04	3.039E-04	1.630E-04
F	2.9	3.01	823.	0.	0.	31.0	12.0	77.6	1.193E-04	1.418E-04	1.193E-04
F	4.8	1.89	823.	0.	0.	31.0	12.0	41.1	1.351E-04	8.509E-05	8.509E-05
F	7.1	0.41	823.	0.	0.	31.0	12.0	31.0	1.210E-04	5.750E-05	5.750E-05
F	9.2	0.04	823.	0.	0.	31.0	12.0	31.0	9.328E-05	4.432E-05	4.432E-05

G	0.2	0.01	823.	0.	0.	21.4	7.7	125.7	1.720E-03	3.367E-03	1.720E-03
G	1.3	12.02	823.	0.	0.	21.4	7.7	125.7	2.457E-04	4.809E-04	2.457E-04
G	2.9	9.33	823.	0.	0.	21.4	7.7	70.2	2.053E-04	2.244E-04	2.053E-04
G	4.8	1.45	823.	0.	0.	21.4	7.7	30.8	2.805E-04	1.347E-04	1.347E-04
G	7.1	0.14	823.	0.	0.	21.4	7.7	21.4	2.730E-04	9.099E-05	9.099E-05
G	21.0	0.02	823.	0.	0.	21.4	7.7	21.4	9.182E-05	3.061E-05	3.061E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 13.7 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

SSE SECTOR BOUNDARY DISTANCE = 823.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.720E-03	1.141E-03	6.730E-04	4.551E-04	3.080E-04	2.457E-04	2.053E-04	1.630E-04	1.347E-04	1.193E-04
0.008	0.017	0.028	0.029	0.031	12.048	21.377	24.962	26.408	29.423
0.00092	0.00199	0.00323	0.00341	0.00360	1.40683	2.49611	2.91470	3.08356	3.43556
9.614E-05	9.099E-05	8.509E-05	6.501E-05	6.402E-05	5.750E-05	5.330E-05	4.432E-05	4.401E-05	3.983E-05
32.702	32.845	34.739	36.165	39.240	39.648	43.314	43.355	43.986	47.469
3.81847	3.83512	4.05630	4.22279	4.58192	4.62949	5.05759	5.06235	5.13608	5.54277
3.601E-05	3.061E-05	2.899E-05	2.776E-05	2.054E-05	1.959E-05	1.510E-05	1.232E-05	1.211E-05	8.325E-06
49.649	49.669	55.535	55.922	57.511	63.988	66.331	69.121	69.142	72.563
5.79726	5.79963	6.48460	6.52979	6.71530	7.47161	7.74512	8.07096	8.07333	8.47290
6.589E-06	6.417E-06	4.480E-06	2.800E-06	2.091E-06	1.254E-06	8.476E-07	6.534E-07	2.851E-07	
73.175	74.254	75.700	76.026	79.346	87.860	97.291	99.654	100.000	
8.54425	8.67030	8.83916	8.87722	9.26489	10.25904	11.36021	11.63610	11.67653	

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED

CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 2.912
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 3.432
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 4.053
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 5.054
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(7)= 6.481

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(8)= 7.468

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
16	1	-6.36563	-10.28583	-0.91513
16	2	-8.49120	-15.22318	-3.43283
16	3	-8.72174	-16.80977	-4.27056
16	4	-9.03426	-17.10395	-4.43214
16	5	-9.37174	-17.15164	-4.45947
16	6	-9.83966	-17.88916	-4.90927
16	7	-10.44855	-18.49839	-5.31124
16	8	-10.84059	NUMXQ(K)= 8	

5.531E-04	0.117	1.000
4.025E-04	0.350	3.000
3.430E-04	0.584	5.000
2.718E-04	1.168	10.000
2.349E-04	1.751	15.000
2.107E-04	2.335	20.000
1.625E-04	2.919	25.000
1.147E-04	3.503	30.000
8.378E-05	4.087	35.000
6.325E-05	4.671	40.000
4.864E-05	5.254	45.000
3.764E-05	5.838	50.000
2.970E-05	6.422	55.000
2.344E-05	7.006	60.000
3.604E-04	0.5	4.28

ANNUAL AVERAGE = 6.84E-06

K= 16 FIVEXQ(K)= 3.604E-04 FIVEPR(K)= 4.282

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 13.7 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE ALL SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 10.0 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.4	2.62	823.	0.	0.	157.1	310.1	157.1	4.518E-06	4.480E-06	4.480E-06
A	3.1	4.89	823.	0.	0.	157.1	310.1	157.1	2.108E-06	2.091E-06	2.091E-06
A	5.2	5.27	823.	0.	0.	157.1	310.1	157.1	1.265E-06	1.254E-06	1.254E-06
A	7.6	3.24	823.	0.	0.	157.1	310.1	157.1	8.548E-07	8.476E-07	8.476E-07
A	9.9	0.79	823.	0.	0.	157.1	310.1	157.1	6.589E-07	6.534E-07	6.534E-07
A	22.7	0.16	823.	0.	0.	157.1	310.1	157.1	2.875E-07	2.851E-07	2.851E-07
C	0.2	0.00	823.	0.	0.	89.7	51.2	89.7	3.356E-04	3.080E-04	3.080E-04
C	1.4	0.92	823.	0.	0.	89.7	51.2	89.7	4.795E-05	4.401E-05	4.401E-05
C	3.1	2.22	823.	0.	0.	89.7	51.2	89.7	2.238E-05	2.054E-05	2.054E-05
C	5.2	2.61	823.	0.	0.	89.7	51.2	89.7	1.343E-05	1.232E-05	1.232E-05
C	7.6	1.72	823.	0.	0.	89.7	51.2	89.7	9.071E-06	8.325E-06	8.325E-06
C	9.9	0.51	823.	0.	0.	89.7	51.2	89.7	6.992E-06	6.417E-06	6.417E-06
C	22.7	0.13	823.	0.	0.	89.7	51.2	89.7	3.051E-06	2.800E-06	2.800E-06
D	0.2	0.00	823.	0.	0.	63.2	27.1	63.2	8.986E-04	7.248E-04	7.248E-04
D	1.4	2.25	823.	0.	0.	63.2	27.1	63.2	1.284E-04	1.035E-04	1.035E-04
D	3.1	6.06	823.	0.	0.	63.2	27.1	63.2	5.991E-05	4.832E-05	4.832E-05
D	5.2	7.33	823.	0.	0.	63.2	27.1	63.2	3.594E-05	2.899E-05	2.899E-05
D	7.6	4.71	823.	0.	0.	63.2	27.1	63.2	2.429E-05	1.959E-05	1.959E-05
D	9.9	1.37	823.	0.	0.	63.2	27.1	63.2	1.872E-05	1.510E-05	1.510E-05
D	22.7	0.28	823.	0.	0.	63.2	27.1	63.2	8.169E-06	6.589E-06	6.589E-06
E	0.2	0.01	823.	0.	0.	44.9	18.7	44.9	1.985E-03	1.332E-03	1.332E-03
E	1.3	2.94	823.	0.	0.	44.9	18.7	44.9	2.836E-04	1.903E-04	1.903E-04
E	2.9	5.43	823.	0.	0.	44.9	18.7	44.9	1.323E-04	8.883E-05	8.883E-05
E	4.8	4.90	823.	0.	0.	44.9	18.7	44.9	7.940E-05	5.330E-05	5.330E-05
E	7.1	1.68	823.	0.	0.	44.9	18.7	44.9	5.365E-05	3.601E-05	3.601E-05
E	9.2	0.27	823.	0.	0.	44.9	18.7	44.9	4.135E-05	2.776E-05	2.776E-05
E	21.0	0.04	823.	0.	0.	44.9	18.7	44.9	1.804E-05	1.211E-05	1.211E-05
F	0.2	0.01	823.	0.	0.	31.0	12.0	31.0	4.478E-03	2.127E-03	2.127E-03
F	1.3	3.70	823.	0.	0.	31.0	12.0	31.0	6.397E-04	3.039E-04	3.039E-04
F	2.9	4.19	823.	0.	0.	31.0	12.0	31.0	2.985E-04	1.418E-04	1.418E-04
F	4.8	2.22	823.	0.	0.	31.0	12.0	31.0	1.791E-04	8.509E-05	8.509E-05
F	7.1	0.23	823.	0.	0.	31.0	12.0	31.0	1.210E-04	5.750E-05	5.750E-05
F	9.2	0.01	823.	0.	0.	31.0	12.0	31.0	9.328E-05	4.432E-05	4.432E-05
F	21.0	0.01	823.	0.	0.	31.0	12.0	31.0	4.071E-05	1.934E-05	1.934E-05

G	0.2	0.01	823.	0.	0.	21.4	7.7	21.4	1.010E-02	3.367E-03	3.367E-03
G	1.3	14.53	823.	0.	0.	21.4	7.7	21.4	1.443E-03	4.809E-04	4.809E-04
G	2.9	10.79	823.	0.	0.	21.4	7.7	21.4	6.734E-04	2.244E-04	2.244E-04
G	4.8	1.76	823.	0.	0.	21.4	7.7	21.4	4.040E-04	1.347E-04	1.347E-04
G	7.1	0.09	823.	0.	0.	21.4	7.7	21.4	2.730E-04	9.099E-05	9.099E-05
G	9.2	0.01	823.	0.	0.	21.4	7.7	21.4	2.104E-04	7.014E-05	7.014E-05
G	21.0	0.06	823.	0.	0.	21.4	7.7	21.4	9.182E-05	3.061E-05	3.061E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 13.7 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:
DIRECTION-INDEPENDENT (S.R.P 2.3.4) MODEL.
MINIMUM BOUNDARY DISTANCE = 823.0 METERS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

3.367E-03	2.127E-03	1.332E-03	7.248E-04	4.809E-04	3.080E-04	3.039E-04	2.244E-04	1.903E-04	1.418E-04
0.010	0.019	0.029	0.031	14.563	14.565	18.268	29.061	31.998	36.187
0.00951	0.01903	0.02854	0.03092	14.56262	14.56500	18.26809	29.06103	31.99829	36.18656
1.347E-04	1.035E-04	9.099E-05	8.883E-05	8.509E-05	7.014E-05	5.750E-05	5.330E-05	4.832E-05	4.432E-05
37.949	40.204	40.296	45.726	47.945	47.952	48.178	53.080	59.142	59.157
37.94891	40.20358	40.29634	45.72610	47.94510	47.95224	48.17818	53.07995	59.14236	59.15663
4.401E-05	3.601E-05	3.061E-05	2.899E-05	2.776E-05	2.054E-05	1.959E-05	1.934E-05	1.510E-05	1.232E-05
60.077	61.759	61.823	69.150	69.417	71.638	76.352	76.366	77.736	80.345
60.07705	61.75854	61.82276	69.15045	69.41682	71.63820	76.35208	76.36635	77.73627	80.34532
1.211E-05	8.325E-06	6.589E-06	6.417E-06	4.480E-06	2.800E-06	2.091E-06	1.254E-06	8.476E-07	6.534E-07
80.383	82.103	82.386	82.893	85.509	85.640	90.534	95.802	99.044	99.836
80.38338	82.10292	82.38594	82.89253	85.50871	85.63952	90.53416	95.80220	99.04388	99.83588
2.851E-07									
100.000									
99.99998									

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY
1.212E-03	1.000	1.000
8.767E-04	3.000	3.000
7.385E-04	5.000	5.000
5.670E-04	10.000	10.000
4.673E-04	15.000	15.000

3.480E-04	20.000	20.000
2.703E-04	25.000	25.000
2.129E-04	30.000	30.000
1.625E-04	35.000	35.000
1.258E-04	40.000	40.000
9.823E-05	45.000	45.000
7.696E-05	50.000	50.000
6.024E-05	55.000	55.000
4.695E-05	60.000	60.000
3.628E-05	65.000	65.000
2.792E-05	70.000	70.000
2.211E-05	75.000	75.000
1.705E-05	80.000	80.000
1.259E-05	85.000	85.000
8.600E-06	90.000	90.000
7.385E-04	5.0	5.00

K= 17 FIVEXQ(K)= 7.385E-04 FIVEPR(K)= 5.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 13.7 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

FIVE PERCENT OVERALL SITE LIMIT
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.720E-03	1.141E-03	6.730E-04	4.551E-04	3.080E-04	2.457E-04	2.053E-04	1.630E-04	1.347E-04	1.193E-04
0.010	0.019	0.029	0.031	0.033	14.565	25.358	29.061	30.823	35.012
0.00951	0.01903	0.02854	0.03092	0.03330	14.56500	25.35794	29.06103	30.82339	35.01165
9.614E-05	9.099E-05	8.509E-05	7.014E-05	6.501E-05	6.402E-05	5.750E-05	5.330E-05	4.432E-05	4.401E-05
37.949	38.042	40.261	40.268	42.522	47.952	48.178	53.080	53.094	54.015
37.94891	38.04166	40.26066	40.26779	42.52247	47.95224	48.17818	53.07996	53.09422	54.01464
3.983E-05	3.601E-05	3.061E-05	2.899E-05	2.776E-05	2.054E-05	1.959E-05	1.934E-05	1.510E-05	1.232E-05
60.077	61.759	61.823	69.150	69.417	71.638	76.352	76.366	77.736	80.345
60.07705	61.75853	61.82274	69.15044	69.41681	71.63819	76.35206	76.36633	77.73624	80.34530
1.211E-05	8.325E-06	6.589E-06	6.417E-06	4.480E-06	2.800E-06	2.091E-06	1.254E-06	8.476E-07	6.534E-07
80.383	82.103	82.386	82.893	85.509	85.640	90.534	95.802	99.044	99.836
80.38335	82.10289	82.38591	82.89250	85.50870	85.63951	90.53417	95.80221	99.04390	99.83588
2.851E-07									
100.000									
99.99999									

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED
CHI/Q WITH RESPECT TO WHEN THE WIND BLOWS
SEC/CUBIC METER THE TOTAL TIME INTO THIS SECTOR ONLY

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
18	1	-6.36563	-8.95040	-0.69265
18	2	-8.49120	-9.75391	-1.90466
18	3	-9.65636	-9.72953	-1.42869

```
 18  4      -9.83966  -9.72860  -1.44073
 18  5     -10.44855  -9.67203  -1.55395
 18  6     -14.24111     NUMXQ(K)=  6
    6.499E-04              1.000              1.000
    4.773E-04              3.000              3.000
    4.053E-04              5.000              5.000
    3.151E-04             10.000             10.000
    2.659E-04             15.000             15.000
    2.323E-04             20.000             20.000
    2.069E-04             25.000             25.000
    1.575E-04             30.000             30.000
    1.209E-04             35.000             35.000
    9.401E-05             40.000             40.000
    7.373E-05             45.000             45.000
    5.950E-05             50.000             50.000
    4.971E-05             55.000             55.000
    4.137E-05             60.000             60.000
    3.421E-05             65.000             65.000
    2.792E-05             70.000             70.000
    2.211E-05             75.000             75.000
    1.705E-05             80.000             80.000
    1.259E-05             85.000             85.000
    8.600E-06             90.000             90.000

    4.053E-04              5.0                5.00

K= 18     FIVEXQ(K)= 4.053E-04     FIVEPR(K)= 5.000

  K          HIGHPR             PR       GRNDVT(K)
  1        -3.13564        0.08575         5.95274
  2        -1.71237        4.34139         2.40814
  3        -3.46978        0.02605         2.26292
  4        -3.39955        0.03375         2.31533
  5        -3.37261        0.03724         3.63081
  6        -3.23425        0.06099         5.59839
  7        -2.97277        0.14757         8.93388
  8        -2.94120        0.16348         8.82811
  9        -2.94751        0.16018         4.84630
 10        -3.03741        0.11932         2.27485
 11        -2.87959        0.19910         3.07929
 12        -2.78098        0.27098         3.93100
 13        -2.57624        0.49942         7.21397
 14        -2.64925        0.40336        10.78356
 15        -2.58984        0.48010        16.26418
 16        -2.75535        0.29315        11.67653

  K        HOURS(K)         TOTHRS
  1         7.51146         7.51146
  2       380.30560       387.81700
  3         2.28174       390.09880
  4         2.95686       393.05560
  5         3.26179       396.31740
  6         5.34250       401.65990
```

7	12.92706	414.58690
8	14.32064	428.90760
9	14.03190	442.93950
10	10.45213	453.39160
11	17.44145	470.83310
12	23.73790	494.57100
13	43.74879	538.31980
14	35.33403	573.65380
15	42.05654	615.71030
16	25.68025	641.39060

K	FIVEXQ	SVANN	SLTIME	TIMINT	I	TIME	XQT
1	2.419E-04	3.073E-06	-0.5207	-7.9662			
					1	8.0	-9.04890
					2	16.0	-9.40979
					3	72.0	-10.19291
					4	624.0	-11.31727
2	1.333E-04	1.372E-06	-0.5457	-8.5450			
					1	8.0	-9.67980
					2	16.0	-10.05808
					3	72.0	-10.87893
					4	624.0	-12.05745
3	1.174E-04	1.277E-06	-0.5392	-8.6765			
					1	8.0	-9.79772
					2	16.0	-10.17146
					3	72.0	-10.98242
					4	624.0	-12.14678
4	1.128E-04	1.357E-06	-0.5272	-8.7243			
					1	8.0	-9.82056
					2	16.0	-10.18597
					3	72.0	-10.97888
					4	624.0	-12.11731
5	1.535E-04	1.775E-06	-0.5319	-8.4131			
					1	8.0	-9.51906
					2	16.0	-9.88773
					3	72.0	-10.68772
					4	624.0	-11.83630
6	2.170E-04	2.780E-06	-0.5197	-8.0752			
					1	8.0	-9.15589
					2	16.0	-9.51611
					3	72.0	-10.29777
					4	624.0	-11.42003
7	2.921E-04	4.939E-06	-0.4866	-7.8010			
					1	8.0	-8.81280
					2	16.0	-9.15007
					3	72.0	-9.88193
					4	624.0	-10.93270
8	3.008E-04	4.678E-06	-0.4966	-7.7649			
					1	8.0	-8.79743
					2	16.0	-9.14162
					3	72.0	-9.88848
					4	624.0	-10.96079
9	2.966E-04	3.807E-06	-0.5194	-7.7632			

				1	8.0	-8.84335
				2	16.0	-9.20338
				3	72.0	-9.98462
				4	624.0	-11.10630
10	2.691E-04	2.471E-06	-0.5594	-7.8325		
				1	8.0	-8.99577
				2	16.0	-9.38352
				3	72.0	-10.22489
				4	624.0	-11.43289
11	3.180E-04	3.800E-06	-0.5280	-7.6876		
				1	8.0	-8.78545
				2	16.0	-9.15140
				3	72.0	-9.94548
				4	624.0	-11.08558
12	3.509E-04	5.070E-06	-0.5053	-7.6048		
				1	8.0	-8.65559
				2	16.0	-9.00585
				3	72.0	-9.76588
				4	624.0	-10.85710
13	4.246E-04	8.376E-06	-0.4682	-7.4398		
				1	8.0	-8.41338
				2	16.0	-8.73791
				3	72.0	-9.44211
				4	624.0	-10.45318
14	3.978E-04	7.951E-06	-0.4666	-7.5061		
				1	8.0	-8.47638
				2	16.0	-8.79982
				3	72.0	-9.50166
				4	624.0	-10.50932
15	4.196E-04	9.871E-06	-0.4472	-7.4663		
				1	8.0	-8.39617
				2	16.0	-8.70613
				3	72.0	-9.37872
				4	624.0	-10.34440
16	3.604E-04	6.843E-06	-0.4728	-7.6005		
				1	8.0	-8.58362
				2	16.0	-8.91131
				3	72.0	-9.62238
				4	624.0	-10.64330
17	7.385E-04	9.871E-06	-0.5146	-6.8542		
				1	8.0	-7.92431
				2	16.0	-8.28100
				3	72.0	-9.05500
				4	624.0	-10.16627
18	4.053E-04	9.871E-06	-0.4431	-7.5037		
				1	8.0	-8.42504
				2	16.0	-8.73214
				3	72.0	-9.39853
				4	624.0	-10.35530

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 13.7 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988, 1A met (w/ RT wind), RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

RELATIVE CONCENTRATION (X/Q) VALUES (SEC/CUBIC METER)
VERSUS
AVERAGING TIME

DOWNWIND SECTOR	DISTANCE (METERS)	0-2 HOURS	0-8 HOURS	8-24 HOURS	1-4 DAYS	4-30 DAYS	ANNUAL AVERAGE	HOURS PER YEAR MAX 0-2 HR X/Q IS EXCEEDED IN SECTOR	DOWNWIND SECTOR
S	823.	2.42E-04	1.18E-04	8.19E-05	3.74E-05	1.22E-05	3.07E-06	7.5	S
SSW	823.	1.33E-04	6.25E-05	4.28E-05	1.89E-05	5.80E-06	1.37E-06	380.3	SSW
SW	823.	1.17E-04	5.56E-05	3.82E-05	1.70E-05	5.31E-06	1.28E-06	2.3	SW
WSW	823.	1.13E-04	5.43E-05	3.77E-05	1.71E-05	5.46E-06	1.36E-06	3.0	WSW
W	823.	1.54E-04	7.34E-05	5.08E-05	2.28E-05	7.24E-06	1.78E-06	3.3	W
WNW	823.	2.17E-04	1.06E-04	7.37E-05	3.37E-05	1.10E-05	2.78E-06	5.3	WNW
NW	823.	2.92E-04	1.49E-04	1.06E-04	5.11E-05	1.79E-05	4.94E-06	12.9	NW
NNW	823.	3.01E-04	1.51E-04	1.07E-04	5.08E-05	1.74E-05	4.68E-06	14.3	NNW
N	823.	2.97E-04	1.44E-04	1.01E-04	4.61E-05	1.50E-05	3.81E-06	14.0	N
NNE	823.	2.69E-04	1.24E-04	8.41E-05	3.63E-05	1.08E-05	2.47E-06	10.5	NNE
NE	823.	3.18E-04	1.53E-04	1.06E-04	4.79E-05	1.53E-05	3.80E-06	17.4	NE
ENE	823.	3.51E-04	1.74E-04	1.23E-04	5.74E-05	1.93E-05	5.07E-06	23.7	ENE
E	823.	4.25E-04	2.22E-04	1.60E-04	7.93E-05	2.89E-05	8.38E-06	43.7	E
ESE	823.	3.98E-04	2.08E-04	1.51E-04	7.47E-05	2.73E-05	7.95E-06	35.3	ESE
SE	823.	4.20E-04	2.26E-04	1.66E-04	8.45E-05	3.22E-05	9.87E-06	42.1	SE
SSE	823.	3.60E-04	1.87E-04	1.35E-04	6.62E-05	2.39E-05	6.84E-06	25.7	SSE
MAX X/Q		4.25E-04				TOTAL HOURS AROUND SITE:		641.4	
SRP 2.3.4	823.	7.38E-04	3.62E-04	2.53E-04	1.17E-04	3.84E-05	9.87E-06		
SITE LIMIT		4.05E-04	2.19E-04	1.61E-04	8.28E-05	3.18E-05	9.87E-06		

THE FIVE-PERCENT-FOR-THE-ENTIRE-SITE X/Q IS LIMITING.

NOTE: VALUES ON THIS PAGE ARE APPROXIMATIONS ONLY.
CHECK THE REASONABLENESS OF THE ENVELOPES
COMPUTED FOR THE 0-2 HOUR VALUES. FOR ANY
FAULTY ENVELOPES, ADJUST THE ABOVE VALUES.

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/09/03

PRINTOUT OF INPUT CARDS

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1      00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000
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PAVAN Input

Reactor Building Stacks to EAB and LPZ (Tower 2 33' wind and 150'-33' Delta T Stability Class)

```
   1  1111
Peach Bottom                                  Ground Release
10.1 meters          10.1-45.7 meters

Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
    7    0
2584. 54.3 10.0 10.1
    0    0    0    8   54   26   15
  88. 134. 141. 143. 102.  79.  50.  32.   8.   3.   4.   7.  15.  16.  24.  40.
 168.  81.  31.  28.  44.  97. 109.  79.  71.  43.  54.  39.  93. 104.  77. 202.
  28.   1.   1.   0.   0.   8.   6.  29.  98.  31.  39.  28.  58.  36.  25.  90.
   1.   0.   0.   0.   0.   0.   0.   5.  13.   1.   3.   1.   4.   8.   3.   1.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   0.   1.   1.   0.   2.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
  60.  56.  64.  67.  61.  44.  23.  13.  12.   2.   6.   6.  15.  12.   9.  38.
 144.  40.  11.  15.  12.  31.  56.  72.  91.  45.  64.  42.  64.  71.  68. 166.
  38.   2.   0.   0.   1.   6.   9.  34. 145.  46.  28.  24.  51.  71.  89. 168.
   2.   0.   0.   0.   0.   0.   0.   7.  22.   1.   3.   0.   2.  16.  21.   9.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   1.   0.   0.
   0.   0.   0.   0.   0.   0.   1.   0.   0.   0.   0.   0.   0.   0.   0.   0.
  32.  46.  26.  48.  35.  27.  11.   5.   6.   0.   5.   4.   6.   7.   9.  33.
  58.  10.   3.   8.   9.  10.  33.  53.  66.  24.  24.  21.  42.  37.  46. 125.
  16.   1.   0.   0.   1.   1.   5.  17.  75.  31.  22.  22.  35.  53.  80. 125.
   1.   0.   0.   0.   0.   1.   0.   3.   8.   0.   0.   0.   3.  12.  20.  16.
   0.   0.   0.   0.   0.   0.   0.   1.   0.   0.   0.   0.   0.   0.   0.   0.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
 389. 338. 437. 318. 296. 175. 154. 229. 177.  92.  78. 105. 122. 128. 192. 238.
 571. 160.  66.  35.  65. 145. 381. 592. 544. 233. 188. 175. 297. 432. 740. 922.
 220.   8.   0.   0.   2.   8.  77. 150. 325. 108.  78.  74. 214. 575. 922. 792.
  23.   0.   0.   0.   0.   0.   2.  12.  45.  10.   5.   4.  43.  57. 169. 132.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   2.   0.   0.   0.   1.   0.   0.
   2.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   3.
 517. 416. 415. 383. 515. 470. 543. 600. 634. 375. 325. 395. 448. 498. 609. 427.
 448.  92.  76.  74. 106. 177. 395. 677. 771. 391. 324. 434. 668.1004. 948. 761.
  73.   4.   1.   0.   6.  17.  52.  71. 202.  54.  46.  51. 123. 193. 257. 211.
   4.   0.   0.   0.   0.   0.   1.   6.  25.   4.   0.   0.   6.   8.   9.  10.
   0.   0.   0.   0.   0.   0.   0.   0.   1.   0.   0.   0.   0.   0.   0.   1.
   1.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   6.
 130.  81.  74.  92. 180. 224. 129.  99. 121. 196. 294. 451. 500. 416. 331. 162.
   7.   0.   5.   2.   3.  14.  24.  18.  49.  46.  97. 252. 213. 136.  91.  38.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   1.   3.   0.   1.   1.   2.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
  35.  30.  29.  49.  88.  55.  32.  27.  23.  33. 166. 492. 425. 234. 119.  58.
   1.   4.   0.   0.   3.   5.   2.   0.   0.   7.  59. 254.  71.  16.   7.   3.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   1.   0.   0.   0.   1.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
```

```
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
 101. 0.50 3.50 7.50 12.5 18.5 24.0 55.0
0823.0823.0823.0823.0823.0823.0823.0823.0823.0823.0823.0823.0823.0823.0823.0823.
7300.7300.7300.7300.7300.7300.7300.7300.7300.7300.7300.7300.7300.7300.7300.7300.
   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.
   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.
```

PAVAN Output

Reactor Building Stacks to EAB and LPZ (Tower 2 33' wind and 150'-33' Delta T Stability Class)

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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PRINTOUT OF INPUT CARDS

```
   1     00010 01111 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000   2      Peach Bottom
Ground Release
   3     10.1 meters          10.1-45.7 meters
   4
   5     Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T           6          7 42774      0
   7          0.500  2584.000    54.300    10.000    10.100
   8       0.000  0.000  0.000  8.000 54.000 26.000 15.000
   9      88.000134.000141.000143.000102.000 79.000 50.000 32.000  8.000  3.000  4.000  7.000 15.000 16.000 24.000 40.000
   9     168.000 81.000 31.000 28.000 44.000 97.000109.000 79.000 71.000 43.000 54.000 39.000 93.000104.000 77.000202.000
   9      28.000  1.000  1.000  0.000  0.000  8.000  6.000 29.000 98.000 31.000 39.000 28.000 58.000 36.000 25.000 90.000
   9       1.000  0.000  0.000  0.000  0.000  0.000  0.000  5.000 13.000  1.000  3.000  1.000  4.000  8.000  3.000  1.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  1.000  1.000  0.000  2.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9      60.000 56.000 64.000 67.000 61.000 44.000 23.000 13.000 12.000  2.000  6.000  6.000 15.000 12.000  9.000 38.000
   9     144.000 40.000 11.000 15.000 12.000 31.000 56.000 72.000 91.000 45.000 64.000 42.000 64.000 71.000 68.000166.000
   9      38.000  2.000  0.000  0.000  1.000  6.000  9.000 34.000145.000 46.000 28.000 24.000 51.000 71.000 89.000168.000
   9       2.000  0.000  0.000  0.000  0.000  0.000  0.000  7.000 22.000  1.000  3.000  0.000  2.000 16.000 21.000  9.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  1.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9      32.000 46.000 26.000 48.000 35.000 27.000 11.000  5.000  6.000  0.000  5.000  4.000  6.000  7.000  9.000 33.000
   9      58.000 10.000  3.000  8.000  9.000 10.000 33.000 53.000 66.000 24.000 24.000 21.000 42.000 37.000 46.000125.000
   9      16.000  1.000  0.000  0.000  1.000  1.000  5.000 17.000 75.000 31.000 22.000 22.000 35.000 53.000 80.000125.000
   9       1.000  0.000  0.000  0.000  0.000  1.000  0.000  3.000  8.000  0.000  0.000  0.000  3.000 12.000 20.000 16.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9     389.000338.000437.000318.000296.000175.000154.000229.000177.000 92.000 78.000105.000122.000128.000192.000238.000
   9     571.000160.000 66.000 35.000 65.000145.000381.000592.000544.000233.000188.000175.000297.000432.000740.000922.000
   9     220.000  8.000  0.000  0.000  2.000  8.000 77.000150.000325.000108.000 78.000 74.000214.000575.000922.000792.000
   9      23.000  0.000  0.000  0.000  0.000  0.000  2.000 12.000 45.000 10.000  5.000  4.000 43.000 57.000169.000132.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  2.000  0.000  0.000  0.000  1.000  0.000  0.000
   9       2.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  3.000
   9     517.000416.000415.000383.000515.000470.000543.000600.000634.000375.000325.000395.000448.000498.000609.000427.000
   9     448.000 92.000 76.000 74.000106.000177.000395.000677.000771.000391.000324.000434.000668.000*******948.000761.000
   9      73.000  4.000  1.000  0.000  6.000 17.000 52.000 71.000202.000 54.000 46.000 51.000123.000193.000257.000211.000
   9       4.000  0.000  0.000  0.000  0.000  0.000  1.000  6.000 25.000  4.000  0.000  0.000  6.000  8.000  9.000 10.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000
   9       1.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  6.000
   9     130.000 81.000 74.000 92.000180.000224.000129.000 99.000121.000196.000294.000451.000500.000416.000331.000162.000
   9       7.000  0.000  5.000  2.000  3.000 14.000 24.000 18.000 49.000 46.000 97.000252.000213.000136.000 91.000 38.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  3.000  0.000  1.000  1.000  2.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
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   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9      35.000 30.000 29.000 49.000 88.000 55.000 32.000 27.000 23.000 33.000166.000492.000425.000234.000119.000 58.000
   9       1.000  4.000  0.000  0.000  3.000  5.000  2.000  0.000  0.000  7.000 59.000254.000 71.000 16.000  7.000  3.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  0.000  0.000  0.000  1.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  10        101.
0.500  3.500  7.500 12.500 18.500 24.000 55.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  11        823.   823.   823.   823.
823.   823.   823.   823.   823.   823.   823.   823.   823.   823.   823.   823.  11        7300.  7300.  7300.  7300.  7300.  7300.
7300.  7300.  7300.  7300.  7300.  7300.  7300.  7300.  7300.  7300.  12          1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0
1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0
  12          1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION ATMOSPHERIC STABILITY CLASS A
WIND SPEED (M/S)

TOWER	RELEASE	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.22	0.22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.56	1.56	0.206	0.313	0.330	0.334	0.238	0.185	0.117	0.075	0.019	0.007	0.009	0.016	0.035	0.037	0.056	0.094	2.071
3.35	3.34	0.393	0.189	0.072	0.065	0.103	0.227	0.255	0.185	0.166	0.101	0.126	0.091	0.217	0.243	0.180	0.472	3.086
5.59	5.57	0.065	0.002	0.002	0.000	0.000	0.019	0.014	0.068	0.229	0.072	0.091	0.065	0.136	0.084	0.058	0.210	1.118
8.27	8.25	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.012	0.030	0.002	0.007	0.002	0.009	0.019	0.007	0.002	0.094
10.73	10.70	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24.59	24.53	0.000	0.002	0.002	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.009
TOTAL		0.67	0.51	0.41	0.40	0.35	0.43	0.39	0.34	0.44	0.18	0.23	0.18	0.40	0.38	0.30	0.78	6.38

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION ATMOSPHERIC STABILITY CLASS B
WIND SPEED (M/S)

TOWER	RELEASE	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.22	0.22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.56	1.56	0.140	0.131	0.150	0.157	0.143	0.103	0.054	0.030	0.028	0.005	0.014	0.014	0.035	0.028	0.021	0.089	1.141
3.35	3.34	0.337	0.094	0.026	0.035	0.028	0.072	0.131	0.168	0.213	0.105	0.150	0.098	0.150	0.166	0.159	0.388	2.319
5.59	5.57	0.089	0.005	0.000	0.000	0.002	0.014	0.021	0.079	0.339	0.108	0.065	0.056	0.119	0.166	0.208	0.393	1.665
8.27	8.25	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.016	0.051	0.002	0.007	0.000	0.005	0.037	0.049	0.021	0.194
10.73	10.70	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.002
24.59	24.53	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002
TOTAL		0.57	0.23	0.18	0.19	0.17	0.19	0.21	0.29	0.63	0.22	0.24	0.17	0.31	0.40	0.44	0.89	5.32

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION ATMOSPHERIC STABILITY CLASS C
WIND SPEED (M/S)

TOWER	RELEASE	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.22	0.22	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.56	1.56	0.075	0.108	0.061	0.112	0.082	0.063	0.026	0.012	0.014	0.000	0.012	0.009	0.014	0.016	0.021	0.077	0.701
3.35	3.34	0.136	0.023	0.007	0.019	0.021	0.023	0.077	0.124	0.154	0.056	0.056	0.049	0.098	0.087	0.108	0.292	1.330
5.59	5.57	0.037	0.002	0.000	0.000	0.002	0.002	0.012	0.040	0.175	0.072	0.051	0.051	0.082	0.124	0.187	0.292	1.132
8.27	8.25	0.002	0.000	0.000	0.000	0.000	0.002	0.000	0.007	0.019	0.000	0.000	0.000	0.007	0.028	0.047	0.037	0.150
10.73	10.70	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002
24.59	24.53	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL		0.25	0.13	0.07	0.13	0.11	0.09	0.11	0.18	0.36	0.13	0.12	0.11	0.20	0.25	0.36	0.70	3.32

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION ATMOSPHERIC STABILITY CLASS D
WIND SPEED (M/S)

TOWER	RELEASE	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.22	0.22	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.019
1.56	1.56	0.909	0.790	1.022	0.743	0.692	0.409	0.360	0.535	0.414	0.215	0.182	0.245	0.285	0.299	0.449	0.556	8.108

3.35	3.34	1.335	0.374	0.154	0.082	0.152	0.339	0.891	1.384	1.272	0.545	0.440	0.409	0.694	1.010	1.730	2.156	12.966
5.59	5.57	0.514	0.019	0.000	0.000	0.005	0.019	0.180	0.351	0.760	0.252	0.182	0.173	0.500	1.344	2.156	1.852	8.306
8.27	8.25	0.054	0.000	0.000	0.000	0.000	0.000	0.005	0.028	0.105	0.023	0.012	0.009	0.101	0.133	0.395	0.309	1.174
10.73	10.70	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.002	0.000	0.000	0.007
24.59	24.53	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.007	0.012
TOTAL		2.82	1.18	1.18	0.83	0.85	0.77	1.44	2.30	2.55	1.04	0.82	0.84	1.58	2.79	4.73	4.88	30.59

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION ATMOSPHERIC STABILITY CLASS E

WIND SPEED (M/S)

TOWER	RELEASE	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.22	0.22	0.009	0.007	0.007	0.006	0.009	0.008	0.009	0.010	0.011	0.006	0.005	0.007	0.007	0.008	0.010	0.007	0.126
1.56	1.56	1.209	0.973	0.970	0.895	1.204	1.099	1.269	1.403	1.482	0.877	0.760	0.923	1.047	1.164	1.424	0.998	17.698
3.35	3.34	1.047	0.215	0.178	0.173	0.248	0.414	0.923	1.583	1.802	0.914	0.757	1.015	1.562	2.347	2.216	1.779	17.174
5.59	5.56	0.171	0.009	0.002	0.000	0.014	0.040	0.122	0.166	0.472	0.126	0.108	0.119	0.288	0.451	0.601	0.493	3.182
8.27	8.23	0.009	0.000	0.000	0.000	0.000	0.000	0.002	0.014	0.058	0.009	0.000	0.000	0.014	0.019	0.021	0.023	0.171
10.73	10.68	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.005
24.59	24.47	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.014	0.016
TOTAL		2.45	1.20	1.16	1.07	1.47	1.56	2.33	3.18	3.83	1.93	1.63	2.06	2.92	3.99	4.27	3.32	38.37

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION ATMOSPHERIC STABILITY CLASS F

WIND SPEED (M/S)

TOWER	RELEASE	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.22	0.22	0.002	0.001	0.001	0.002	0.003	0.004	0.002	0.002	0.002	0.003	0.005	0.008	0.009	0.007	0.006	0.003	0.061
1.56	1.56	0.304	0.189	0.173	0.215	0.421	0.524	0.302	0.231	0.283	0.458	0.687	1.054	1.169	0.973	0.774	0.379	8.136
3.35	3.34	0.016	0.000	0.012	0.005	0.007	0.033	0.056	0.042	0.115	0.108	0.227	0.589	0.498	0.318	0.213	0.089	2.326
5.59	5.56	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.007	0.000	0.002	0.002	0.005	0.019
8.27	8.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.73	10.68	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24.59	24.47	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL		0.32	0.19	0.19	0.22	0.43	0.56	0.36	0.28	0.40	0.57	0.92	1.66	1.68	1.30	0.99	0.48	10.54

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION ATMOSPHERIC STABILITY CLASS G

WIND SPEED (M/S)

TOWER	RELEASE	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
0.22	0.22	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.000	0.000	0.001	0.003	0.009	0.008	0.004	0.002	0.001	0.035
1.56	1.56	0.082	0.070	0.068	0.115	0.206	0.129	0.075	0.063	0.054	0.077	0.388	1.150	0.994	0.547	0.278	0.136	4.430
3.35	3.34	0.002	0.009	0.000	0.000	0.007	0.012	0.005	0.000	0.000	0.016	0.138	0.594	0.166	0.037	0.016	0.007	1.010
5.59	5.56	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.002	0.005
8.27	8.23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10.73	10.68	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24.59	24.47	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL		0.08	0.08	0.07	0.12	0.21	0.14	0.08	0.06	0.05	0.09	0.53	1.76	1.17	0.59	0.30	0.15	5.48

WIND MEASURED AT 10.1 METERS.
WIND SPEED CORRECTED TO THE RELEASE HEIGHT OF 10.0 METERS.

OVERALL WIND DIRECTION FREQUENCY

WIND DIRECTION:	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
FREQUENCY:	7.2	3.5	3.2	3.0	3.6	3.7	4.9	6.6	8.3	4.2	4.5	6.8	8.2	9.7	11.4	11.2

OVERALL WIND SPEED FREQUENCY AS MEASURED ON THE TOWER:

MAX.WIND SPEED (M/S):	0.224	1.565	3.353	5.588	8.270	10.729	24.587
WIND SPEED FREQUENCY:	0.24	42.29	40.21	15.43	1.78	0.02	0.04

BUILDING AND RELEASE CHARACTERISTICS:

RELEASE HEIGHT: 10.00 METERS

MIXING VOLUME COEFFICIENT: 0.50

BUILDING CROSS-SECTIONAL AREA: 2584.00 SQUARE METERS

BOUNDARY DISTANCES (METERS) FROM THE SOURCE FOR EACH DOWNWIND SECTOR:

DOWNWIND SECTOR	S	SSW	SW	WSW	W	WNW	NW	NNW	N	NNE	NE	ENE	E	ESE	SE	SSE
BOUNDARY 1	823.	823.	823.	823.	823.	823.	823.	823.	823.	823.	823.	823.	823.	823.	823.	823.
BOUNDARY 2	7300.	7300.	7300.	7300.	7300.	7300.	7300.	7300.	7300.	7300.	7300.	7300.	7300.	7300.	7300.	7300.

THE CONVERSION FACTOR APPLIED TO THE WIND SPEED CLASSES IS 0.447

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

WINDSPEEDS ADJUSTED TO 10.0 METERS.

PERCENT OF THE TIME A GIVEN WINDSPEED IS LOWER:

WINDSPEED (METER/SEC)	CUMULATIVE FREQUENCY (PERCENT)
0.22	0.22
0.22	0.24
1.56	30.50
1.56	42.53
3.34	63.04
3.34	82.74
5.56	85.94
5.57	98.16
8.23	98.33
8.25	99.94
10.68	99.95
10.70	99.96
24.47	99.98
24.53	100.00

WINDSPEED (INTERPOLATED) (METER/SEC)	CUMULATIVE FREQUENCY (PERCENT)
0.22	0.24
1.56	42.53
3.34	82.74
5.57	98.16
8.25	99.94
10.69	99.96
24.50	100.00

LOG-NORMAL INTERPOLATION PERCENTILES

WINDSPEED (METER/SEC)	CUMULATIVE FREQUENCY (PERCENT)
0.32	1.00
0.45	3.00
0.53	5.00
0.69	10.00
0.83	15.00
0.96	20.00

1.09	25.00
1.21	30.00
1.35	35.00
1.48	40.00
1.62	45.00
1.77	50.00
1.92	55.00
2.10	60.00
2.29	65.00
2.52	70.00
2.79	75.00
3.12	80.00
3.55	85.00
3.88	90.00

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE S SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 10.0 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.6	2.87	823.	0.	0.	157.1	310.1	157.1	4.187E-06	4.152E-06	4.152E-06
A	3.3	5.49	823.	0.	0.	157.1	310.1	157.1	1.954E-06	1.937E-06	1.937E-06
A	5.6	0.91	823.	0.	0.	157.1	310.1	157.1	1.172E-06	1.162E-06	1.162E-06
A	8.2	0.03	823.	0.	0.	157.1	310.1	157.1	7.921E-07	7.854E-07	7.854E-07
B	1.6	1.96	823.	0.	0.	118.1	88.8	118.1	1.945E-05	1.871E-05	1.871E-05
B	3.3	4.70	823.	0.	0.	118.1	88.8	118.1	9.075E-06	8.732E-06	8.732E-06
B	5.6	1.24	823.	0.	0.	118.1	88.8	118.1	5.445E-06	5.239E-06	5.239E-06
B	8.2	0.07	823.	0.	0.	118.1	88.8	118.1	3.679E-06	3.540E-06	3.540E-06
C	1.6	1.04	823.	0.	0.	89.7	51.2	89.7	4.443E-05	4.078E-05	4.078E-05
C	3.3	1.89	823.	0.	0.	89.7	51.2	89.7	2.073E-05	1.903E-05	1.903E-05
C	5.6	0.52	823.	0.	0.	89.7	51.2	89.7	1.244E-05	1.142E-05	1.142E-05
C	8.2	0.03	823.	0.	0.	89.7	51.2	89.7	8.406E-06	7.714E-06	7.714E-06
D	0.2	0.03	823.	0.	0.	63.2	27.1	124.7	4.217E-04	6.716E-04	4.217E-04
D	1.6	12.70	823.	0.	0.	63.2	27.1	124.7	6.024E-05	9.594E-05	6.024E-05
D	3.3	18.64	823.	0.	0.	63.2	27.1	90.6	3.869E-05	4.477E-05	3.869E-05
D	5.6	7.18	823.	0.	0.	63.2	27.1	66.1	3.183E-05	2.686E-05	2.686E-05
D	8.2	0.75	823.	0.	0.	63.2	27.1	63.2	2.250E-05	1.815E-05	1.815E-05
D	24.5	0.07	823.	0.	0.	63.2	27.1	63.2	7.570E-06	6.105E-06	6.105E-06
E	0.2	0.12	823.	0.	0.	44.9	18.7	132.5	5.778E-04	1.144E-03	5.778E-04
E	1.6	16.88	823.	0.	0.	44.9	18.7	132.5	8.255E-05	1.634E-04	8.255E-05
E	3.3	14.63	823.	0.	0.	44.9	18.7	79.9	6.389E-05	7.627E-05	6.389E-05
E	5.6	2.38	823.	0.	0.	44.9	18.7	48.4	6.329E-05	4.576E-05	4.576E-05
E	8.2	0.13	823.	0.	0.	44.9	18.7	44.9	4.606E-05	3.092E-05	3.092E-05
E	24.5	0.03	823.	0.	0.	44.9	18.7	44.9	1.549E-05	1.040E-05	1.040E-05
F	0.2	0.03	823.	0.	0.	31.0	12.0	121.7	9.797E-04	1.827E-03	9.797E-04
F	1.6	4.24	823.	0.	0.	31.0	12.0	121.7	1.400E-04	2.609E-04	1.400E-04
F	3.3	0.23	823.	0.	0.	31.0	12.0	64.2	1.238E-04	1.218E-04	1.218E-04
G	0.2	0.01	823.	0.	0.	21.4	7.7	125.7	1.477E-03	2.891E-03	1.477E-03
G	1.6	1.14	823.	0.	0.	21.4	7.7	125.7	2.109E-04	4.129E-04	2.109E-04
G	3.3	0.03	823.	0.	0.	21.4	7.7	54.9	2.255E-04	1.927E-04	1.927E-04

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

S SECTOR BOUNDARY DISTANCE = 823.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.477E-03	9.797E-04	5.778E-04	4.217E-04	2.109E-04	1.927E-04	1.400E-04	1.218E-04	8.255E-05	6.389E-05
0.009	0.041	0.161	0.190	1.333	1.366	5.610	5.839	22.719	37.346
0.00065	0.00292	0.01154	0.01364	0.09546	0.09780	0.40172	0.41809	1.62677	2.67413
6.024E-05	4.576E-05	4.078E-05	3.869E-05	3.092E-05	2.686E-05	1.903E-05	1.871E-05	1.815E-05	1.142E-05
50.046	52.430	53.474	72.117	72.248	79.431	81.324	83.283	84.034	84.557
3.58356	3.75423	3.82904	5.16396	5.17332	5.68765	5.82324	5.96351	6.01729	6.05469
1.040E-05	8.732E-06	7.714E-06	6.105E-06	5.239E-06	4.152E-06	3.540E-06	1.937E-06	1.162E-06	7.854E-07
84.589	89.291	89.324	89.389	90.630	93.503	93.568	99.053	99.967	100.000
6.05703	6.39368	6.39602	6.40070	6.48954	6.69527	6.69994	7.09271	7.15817	7.16050

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

CHI/Q SEC/CUBIC METER	PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED WITH RESPECT TO THE TOTAL TIME	WHEN THE WIND BLOWS INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 0.003
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 3.580
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 5.160
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 5.684
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 6.013

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
1	1	-6.51806	-11.75655	-1.20127
1	2	-6.92826	-11.98287	-1.25757

```
  1  3      -9.71722 -14.35068  -2.57185
  1  4     -10.15982 -22.64514  -7.66200
  1  5     -10.52476 -32.48936 -13.88511
  1  6     -10.91680     NUMXQ(K)=  6
    3.446E-04              0.072              1.000
    2.268E-04              0.215              3.000
    1.840E-04              0.358              5.000
    1.361E-04              0.716             10.000
    1.127E-04              1.074             15.000
    9.803E-05              1.432             20.000
    8.762E-05              1.790             25.000
    7.973E-05              2.148             30.000
    7.345E-05              2.506             35.000
    6.831E-05              2.864             40.000
    6.398E-05              3.222             45.000
    6.027E-05              3.580             50.000
    5.389E-05              3.938             55.000
    4.854E-05              4.296             60.000
    4.403E-05              4.654             65.000
    4.016E-05              5.012             70.000
    3.340E-05              5.370             75.000
    2.557E-05              5.728             80.000

    1.596E-04              0.5                6.98

ANNUAL AVERAGE =    3.66E-06

K=  1     FIVEXQ(K)= 1.596E-04     FIVEPR(K)= 6.983
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE SSW SECTOR.

STABILITY CLASS	WINDSPEED AT 10.0 METERS METER/SEC	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.6	8.88	823.	0.	0.	157.1	310.1	157.1	4.187E-06	4.152E-06	4.152E-06
A	3.3	5.37	823.	0.	0.	157.1	310.1	157.1	1.954E-06	1.937E-06	1.937E-06
A	5.6	0.07	823.	0.	0.	157.1	310.1	157.1	1.172E-06	1.162E-06	1.162E-06
A	24.5	0.07	823.	0.	0.	157.1	310.1	157.1	2.664E-07	2.642E-07	2.642E-07
B	1.6	3.71	823.	0.	0.	118.1	88.8	118.1	1.945E-05	1.871E-05	1.871E-05
B	3.3	2.65	823.	0.	0.	118.1	88.8	118.1	9.075E-06	8.732E-06	8.732E-06
B	5.6	0.13	823.	0.	0.	118.1	88.8	118.1	5.445E-06	5.239E-06	5.239E-06
C	1.6	3.05	823.	0.	0.	89.7	51.2	89.7	4.443E-05	4.078E-05	4.078E-05
C	3.3	0.66	823.	0.	0.	89.7	51.2	89.7	2.073E-05	1.903E-05	1.903E-05
C	5.6	0.07	823.	0.	0.	89.7	51.2	89.7	1.244E-05	1.142E-05	1.142E-05
D	0.2	0.05	823.	0.	0.	63.2	27.1	124.7	4.217E-04	6.716E-04	4.217E-04
D	1.6	22.39	823.	0.	0.	63.2	27.1	124.7	6.024E-05	9.594E-05	6.024E-05
D	3.3	10.60	823.	0.	0.	63.2	27.1	90.6	3.869E-05	4.477E-05	3.869E-05
D	5.6	0.53	823.	0.	0.	63.2	27.1	66.1	3.183E-05	2.686E-05	2.686E-05
E	0.2	0.20	823.	0.	0.	44.9	18.7	132.5	5.778E-04	1.144E-03	5.778E-04
E	1.6	27.56	823.	0.	0.	44.9	18.7	132.5	8.255E-05	1.634E-04	8.255E-05
E	3.3	6.09	823.	0.	0.	44.9	18.7	79.9	6.389E-05	7.627E-05	6.389E-05
E	5.6	0.26	823.	0.	0.	44.9	18.7	48.4	6.329E-05	4.576E-05	4.576E-05
F	0.2	0.04	823.	0.	0.	31.0	12.0	121.7	9.797E-04	1.827E-03	9.797E-04
F	1.6	5.37	823.	0.	0.	31.0	12.0	121.7	1.400E-04	2.609E-04	1.400E-04
G	0.2	0.02	823.	0.	0.	21.4	7.7	125.7	1.477E-03	2.891E-03	1.477E-03
G	1.6	1.99	823.	0.	0.	21.4	7.7	125.7	2.109E-04	4.129E-04	2.109E-04
G	3.3	0.26	823.	0.	0.	21.4	7.7	54.9	2.255E-04	1.927E-04	1.927E-04

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

SSW SECTOR BOUNDARY DISTANCE = 823.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.477E-03	9.797E-04	5.778E-04	4.217E-04	2.109E-04	1.927E-04	1.400E-04	8.255E-05	6.389E-05	6.024E-05
0.016	0.056	0.252	0.304	2.291	2.556	7.922	35.479	41.574	63.964
0.00056	0.00197	0.00891	0.01073	0.08087	0.09022	0.27959	1.25214	1.46722	2.25742
4.576E-05	4.078E-05	3.869E-05	2.686E-05	1.903E-05	1.871E-05	1.142E-05	8.732E-06	5.239E-06	4.152E-06
64.229	67.276	77.875	78.405	79.067	82.777	82.843	85.493	85.625	94.502
2.26677	2.37432	2.74837	2.76708	2.79046	2.92138	2.92371	3.01723	3.02191	3.33518
1.937E-06	1.162E-06	2.642E-07							
99.868	99.934	100.000							
3.52455	3.52689	3.52922							

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED
CHI/Q WITH RESPECT TO WHEN THE WIND BLOWS
SEC/CUBIC METER THE TOTAL TIME INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 2.255
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 2.746
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 3.332

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
2	1	-6.51806	-12.39852	-1.33817
2	2	-9.71722	-20.25639	-5.25984
2	3	-10.15982	-60.28563	-26.11320
2	4	-12.39204	NUMXQ(K)= 4	

3.838E-04	0.035	1.000
2.521E-04	0.106	3.000
2.047E-04	0.176	5.000
1.518E-04	0.353	10.000
1.262E-04	0.529	15.000
1.101E-04	0.706	20.000
9.879E-05	0.882	25.000
9.018E-05	1.059	30.000
8.335E-05	1.235	35.000
7.775E-05	1.412	40.000
7.305E-05	1.588	45.000
6.902E-05	1.765	50.000
6.552E-05	1.941	55.000
6.244E-05	2.118	60.000
5.813E-05	2.294	65.000
4.926E-05	2.470	70.000
4.216E-05	2.647	75.000
2.849E-05	2.823	80.000
1.422E-05	3.000	85.000
7.341E-06	3.176	90.000
1.296E-04	0.5	14.17

ANNUAL AVERAGE = 2.40E-06

K= 2 FIVEXQ(K)= 1.296E-04 FIVEPR(K)=14.167

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE SW SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 10.0 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.6	10.17	823.	0.	0.	157.1	310.1	157.1	4.187E-06	4.152E-06	4.152E-06
A	3.3	2.24	823.	0.	0.	157.1	310.1	157.1	1.954E-06	1.937E-06	1.937E-06
A	5.6	0.07	823.	0.	0.	157.1	310.1	157.1	1.172E-06	1.162E-06	1.162E-06
A	24.5	0.07	823.	0.	0.	157.1	310.1	157.1	2.664E-07	2.642E-07	2.642E-07
B	1.6	4.62	823.	0.	0.	118.1	88.8	118.1	1.945E-05	1.871E-05	1.871E-05
B	3.3	0.79	823.	0.	0.	118.1	88.8	118.1	9.075E-06	8.732E-06	8.732E-06
C	1.6	1.88	823.	0.	0.	89.7	51.2	89.7	4.443E-05	4.078E-05	4.078E-05
C	3.3	0.22	823.	0.	0.	89.7	51.2	89.7	2.073E-05	1.903E-05	1.903E-05
D	0.2	0.07	823.	0.	0.	63.2	27.1	124.7	4.217E-04	6.716E-04	4.217E-04
D	1.6	31.54	823.	0.	0.	63.2	27.1	124.7	6.024E-05	9.594E-05	6.024E-05
D	3.3	4.76	823.	0.	0.	63.2	27.1	90.6	3.869E-05	4.477E-05	3.869E-05
E	0.2	0.21	823.	0.	0.	44.9	18.7	132.5	5.778E-04	1.144E-03	5.778E-04
E	1.6	29.95	823.	0.	0.	44.9	18.7	132.5	8.255E-05	1.634E-04	8.255E-05
E	3.3	5.48	823.	0.	0.	44.9	18.7	79.9	6.389E-05	7.627E-05	6.389E-05
E	5.6	0.07	823.	0.	0.	44.9	18.7	48.4	6.329E-05	4.576E-05	4.576E-05
F	0.2	0.04	823.	0.	0.	31.0	12.0	121.7	9.797E-04	1.827E-03	9.797E-04
F	1.6	5.34	823.	0.	0.	31.0	12.0	121.7	1.400E-04	2.609E-04	1.400E-04
F	3.3	0.36	823.	0.	0.	31.0	12.0	64.2	1.238E-04	1.218E-04	1.218E-04
G	0.2	0.02	823.	0.	0.	21.4	7.7	125.7	1.477E-03	2.891E-03	1.477E-03
G	1.6	2.09	823.	0.	0.	21.4	7.7	125.7	2.109E-04	4.129E-04	2.109E-04

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

SW SECTOR BOUNDARY DISTANCE = 823.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.477E-03	9.797E-04	5.778E-04	4.217E-04	2.109E-04	1.400E-04	1.218E-04	8.255E-05	6.389E-05	6.024E-05
0.017	0.056	0.270	0.343	2.436	7.776	8.136	38.084	43.568	75.104
0.00054	0.00183	0.00875	0.01111	0.07891	0.25191	0.26360	1.23381	1.41149	2.43314
4.576E-05	4.078E-05	3.869E-05	1.903E-05	1.871E-05	8.732E-06	4.152E-06	1.937E-06	1.162E-06	2.642E-07
75.176	77.052	81.815	82.031	86.650	87.444	97.619	99.856	99.928	100.000
2.43548	2.49626	2.65056	2.65757	2.80720	2.83291	3.16255	3.23503	3.23737	3.23970

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED
CHI/Q WITH RESPECT TO WHEN THE WIND BLOWS
SEC/CUBIC METER THE TOTAL TIME INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 2.431
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 2.648

K I XQSAVE(K,I) XQINT(K,I) XQSLOP(K,I)
3 1 -6.51806 -12.31359 -1.31664
3 2 -9.71722 -33.49255 -12.05666
3 3 -10.15982 NUMXQ(K)= 3

4.006E-04	0.032	1.000
2.656E-04	0.097	3.000
2.167E-04	0.162	5.000
1.619E-04	0.324	10.000
1.352E-04	0.486	15.000
1.184E-04	0.648	20.000

1.065E-04	0.810	25.000
9.747E-05	0.972	30.000
9.028E-05	1.134	35.000
8.437E-05	1.296	40.000
7.940E-05	1.458	45.000
7.515E-05	1.620	50.000
7.144E-05	1.782	55.000
6.817E-05	1.944	60.000
6.526E-05	2.106	65.000
6.265E-05	2.268	70.000
6.028E-05	2.430	75.000
4.348E-05	2.592	80.000
1.335E-04	0.5	15.43

ANNUAL AVERAGE = 2.44E-06

K= 3 FIVEXQ(K)= 1.335E-04 FIVEPR(K)=15.434

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE WSW SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 10.0 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.6	11.29	823.	0.	0.	157.1	310.1	157.1	4.187E-06	4.152E-06	4.152E-06
A	3.3	2.21	823.	0.	0.	157.1	310.1	157.1	1.954E-06	1.937E-06	1.937E-06
B	1.6	5.29	823.	0.	0.	118.1	88.8	118.1	1.945E-05	1.871E-05	1.871E-05
B	3.3	1.18	823.	0.	0.	118.1	88.8	118.1	9.075E-06	8.732E-06	8.732E-06
C	1.6	3.79	823.	0.	0.	89.7	51.2	89.7	4.443E-05	4.078E-05	4.078E-05
C	3.3	0.63	823.	0.	0.	89.7	51.2	89.7	2.073E-05	1.903E-05	1.903E-05
D	0.2	0.06	823.	0.	0.	63.2	27.1	124.7	4.217E-04	6.716E-04	4.217E-04
D	1.6	25.11	823.	0.	0.	63.2	27.1	124.7	6.024E-05	9.594E-05	6.024E-05
D	3.3	2.76	823.	0.	0.	63.2	27.1	90.6	3.869E-05	4.477E-05	3.869E-05
E	0.2	0.22	823.	0.	0.	44.9	18.7	132.5	5.778E-04	1.144E-03	5.778E-04
E	1.6	30.24	823.	0.	0.	44.9	18.7	132.5	8.255E-05	1.634E-04	8.255E-05
E	3.3	5.84	823.	0.	0.	44.9	18.7	79.9	6.389E-05	7.627E-05	6.389E-05
F	0.2	0.05	823.	0.	0.	31.0	12.0	121.7	9.797E-04	1.827E-03	9.797E-04
F	1.6	7.26	823.	0.	0.	31.0	12.0	121.7	1.400E-04	2.609E-04	1.400E-04
F	3.3	0.16	823.	0.	0.	31.0	12.0	64.2	1.238E-04	1.218E-04	1.218E-04
G	0.2	0.03	823.	0.	0.	21.4	7.7	125.7	1.477E-03	2.891E-03	1.477E-03
G	1.6	3.87	823.	0.	0.	21.4	7.7	125.7	2.109E-04	4.129E-04	2.109E-04

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

WSW SECTOR BOUNDARY DISTANCE = 823.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.477E-03	9.797E-04	5.778E-04	4.217E-04	2.109E-04	1.400E-04	1.218E-04	8.255E-05	6.389E-05	6.024E-05
0.031	0.085	0.301	0.359	4.227	11.491	11.649	41.889	47.732	72.839
0.00091	0.00251	0.00890	0.01062	0.12517	0.34026	0.34493	1.24033	1.41334	2.15678
4.078E-05	3.869E-05	1.903E-05	1.871E-05	8.732E-06	4.152E-06	1.937E-06			
76.629	79.393	80.024	85.314	86.499	97.789	100.000			
2.26900	2.35082	2.36953	2.52616	2.56123	2.89555	2.96101			

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED
CHI/Q WITH RESPECT TO WHEN THE WIND BLOWS
SEC/CUBIC METER THE TOTAL TIME INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 1.239
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 2.155

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
4	1	-6.51806	-12.57305	-1.41253
4	2	-9.40215	-12.58798	-1.41917
4	3	-9.71722	NUMXQ(K)=	3

4.436E-04	0.030	1.000
2.864E-04	0.089	3.000
2.306E-04	0.148	5.000
1.691E-04	0.296	10.000
1.396E-04	0.444	15.000
1.213E-04	0.592	20.000

1.084E-04	0.740	25.000
9.863E-05	0.888	30.000
9.093E-05	1.036	35.000
8.464E-05	1.184	40.000
7.936E-05	1.332	45.000
7.483E-05	1.481	50.000
7.091E-05	1.629	55.000
6.747E-05	1.777	60.000
6.441E-05	1.925	65.000
6.167E-05	2.073	70.000
1.318E-04	0.5	16.89

ANNUAL AVERAGE = 2.31E-06

K= 4 FIVEXQ(K)= 1.318E-04 FIVEPR(K)=16.886

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE W SECTOR.

STABILITY CLASS	WINDSPEED AT 10.0 METERS METER/SEC	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.6	6.63	823.	0.	0.	157.1	310.1	157.1	4.187E-06	4.152E-06	4.152E-06
A	3.3	2.86	823.	0.	0.	157.1	310.1	157.1	1.954E-06	1.937E-06	1.937E-06
A	24.5	0.13	823.	0.	0.	157.1	310.1	157.1	2.664E-07	2.642E-07	2.642E-07
B	1.6	3.97	823.	0.	0.	118.1	88.8	118.1	1.945E-05	1.871E-05	1.871E-05
B	3.3	0.78	823.	0.	0.	118.1	88.8	118.1	9.075E-06	8.732E-06	8.732E-06
B	5.6	0.07	823.	0.	0.	118.1	88.8	118.1	5.445E-06	5.239E-06	5.239E-06
C	1.6	2.28	823.	0.	0.	89.7	51.2	89.7	4.443E-05	4.078E-05	4.078E-05
C	3.3	0.59	823.	0.	0.	89.7	51.2	89.7	2.073E-05	1.903E-05	1.903E-05
C	5.6	0.07	823.	0.	0.	89.7	51.2	89.7	1.244E-05	1.142E-05	1.142E-05
D	0.2	0.04	823.	0.	0.	63.2	27.1	124.7	4.217E-04	6.716E-04	4.217E-04
D	1.6	19.25	823.	0.	0.	63.2	27.1	124.7	6.024E-05	9.594E-05	6.024E-05
D	3.3	4.23	823.	0.	0.	63.2	27.1	90.6	3.869E-05	4.477E-05	3.869E-05
D	5.6	0.13	823.	0.	0.	63.2	27.1	66.1	3.183E-05	2.686E-05	2.686E-05
E	0.2	0.24	823.	0.	0.	44.9	18.7	132.5	5.778E-04	1.144E-03	5.778E-04
E	1.6	33.50	823.	0.	0.	44.9	18.7	132.5	8.255E-05	1.634E-04	8.255E-05
E	3.3	6.89	823.	0.	0.	44.9	18.7	79.9	6.389E-05	7.627E-05	6.389E-05
E	5.6	0.39	823.	0.	0.	44.9	18.7	48.4	6.329E-05	4.576E-05	4.576E-05
F	0.2	0.09	823.	0.	0.	31.0	12.0	121.7	9.797E-04	1.827E-03	9.797E-04
F	1.6	11.71	823.	0.	0.	31.0	12.0	121.7	1.400E-04	2.609E-04	1.400E-04
F	3.3	0.20	823.	0.	0.	31.0	12.0	64.2	1.238E-04	1.218E-04	1.218E-04
G	0.2	0.05	823.	0.	0.	21.4	7.7	125.7	1.477E-03	2.891E-03	1.477E-03
G	1.6	5.72	823.	0.	0.	21.4	7.7	125.7	2.109E-04	4.129E-04	2.109E-04
G	3.3	0.20	823.	0.	0.	21.4	7.7	54.9	2.255E-04	1.927E-04	1.927E-04

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

W SECTOR BOUNDARY DISTANCE = 823.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.477E-03	9.797E-04	5.778E-04	4.217E-04	2.109E-04	1.927E-04	1.400E-04	1.218E-04	8.255E-05	6.389E-05
0.045	0.133	0.372	0.416	6.140	6.335	18.043	18.238	51.737	58.631
0.00163	0.00477	0.01336	0.01496	0.22069	0.22770	0.64852	0.65553	1.85954	2.10735
6.024E-05	4.576E-05	4.078E-05	3.869E-05	2.686E-05	1.903E-05	1.871E-05	1.142E-05	8.732E-06	5.239E-06
77.885	78.275	80.552	84.779	84.910	85.495	89.463	89.528	90.308	90.373
2.79936	2.81339	2.89521	3.04717	3.05185	3.07289	3.21550	3.21784	3.24589	3.24823
4.152E-06	1.937E-06	2.642E-07							
97.008	99.870	100.000							
3.48669	3.58956	3.59423							

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 1.858
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 2.797
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 3.044
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 3.213

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
5	1	-6.51806	-12.30507	-1.39289
5	2	-9.40215	-13.20774	-1.82600
5	3	-9.71722	-32.43827	-11.88613

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  5  4      -10.15982 -67.17355 -30.41830
  5  5      -10.88636      NUMXQ(K)=  5
    5.036E-04                0.036                1.000
    3.250E-04                0.108                3.000
    2.615E-04                0.180                5.000
    1.915E-04                0.359               10.000
    1.580E-04                0.539               15.000
    1.371E-04                0.719               20.000
    1.224E-04                0.899               25.000
    1.113E-04                1.078               30.000
    1.025E-04                1.258               35.000
    9.530E-05                1.438               40.000
    8.929E-05                1.617               45.000
    8.416E-05                1.797               50.000
    7.885E-05                1.977               55.000
    7.381E-05                2.157               60.000
    6.941E-05                2.336               65.000
    6.553E-05                2.516               70.000
    6.207E-05                2.696               75.000
    5.241E-05                2.875               80.000
    3.737E-05                3.055               85.000

    1.638E-04                0.5                 13.91

ANNUAL AVERAGE =    3.11E-06

K=  5      FIVEXQ(K)= 1.638E-04      FIVEPR(K)=13.911
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE WNW SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 10.0 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.6	4.94	823.	0.	0.	157.1	310.1	157.1	4.187E-06	4.152E-06	4.152E-06
A	3.3	6.06	823.	0.	0.	157.1	310.1	157.1	1.954E-06	1.937E-06	1.937E-06
A	5.6	0.50	823.	0.	0.	157.1	310.1	157.1	1.172E-06	1.162E-06	1.162E-06
B	1.6	2.75	823.	0.	0.	118.1	88.8	118.1	1.945E-05	1.871E-05	1.871E-05
B	3.3	1.94	823.	0.	0.	118.1	88.8	118.1	9.075E-06	8.732E-06	8.732E-06
B	5.6	0.38	823.	0.	0.	118.1	88.8	118.1	5.445E-06	5.239E-06	5.239E-06
C	1.6	1.69	823.	0.	0.	89.7	51.2	89.7	4.443E-05	4.078E-05	4.078E-05
C	3.3	0.63	823.	0.	0.	89.7	51.2	89.7	2.073E-05	1.903E-05	1.903E-05
C	5.6	0.06	823.	0.	0.	89.7	51.2	89.7	1.244E-05	1.142E-05	1.142E-05
C	8.2	0.06	823.	0.	0.	89.7	51.2	89.7	8.406E-06	7.714E-06	7.714E-06
D	0.2	0.03	823.	0.	0.	63.2	27.1	124.7	4.217E-04	6.716E-04	4.217E-04
D	1.6	10.94	823.	0.	0.	63.2	27.1	124.7	6.024E-05	9.594E-05	6.024E-05
D	3.3	9.06	823.	0.	0.	63.2	27.1	90.6	3.869E-05	4.477E-05	3.869E-05
D	5.6	0.50	823.	0.	0.	63.2	27.1	66.1	3.183E-05	2.686E-05	2.686E-05
E	0.2	0.21	823.	0.	0.	44.9	18.7	132.5	5.778E-04	1.144E-03	5.778E-04
E	1.6	29.38	823.	0.	0.	44.9	18.7	132.5	8.255E-05	1.634E-04	8.255E-05
E	3.3	11.06	823.	0.	0.	44.9	18.7	79.9	6.389E-05	7.627E-05	6.389E-05
E	5.6	1.06	823.	0.	0.	44.9	18.7	48.4	6.329E-05	4.576E-05	4.576E-05
F	0.2	0.10	823.	0.	0.	31.0	12.0	121.7	9.797E-04	1.827E-03	9.797E-04
F	1.6	14.00	823.	0.	0.	31.0	12.0	121.7	1.400E-04	2.609E-04	1.400E-04
F	3.3	0.88	823.	0.	0.	31.0	12.0	64.2	1.238E-04	1.218E-04	1.218E-04
G	0.2	0.03	823.	0.	0.	21.4	7.7	125.7	1.477E-03	2.891E-03	1.477E-03
G	1.6	3.44	823.	0.	0.	21.4	7.7	125.7	2.109E-04	4.129E-04	2.109E-04
G	3.3	0.31	823.	0.	0.	21.4	7.7	54.9	2.255E-04	1.927E-04	1.927E-04

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

WNW SECTOR BOUNDARY DISTANCE = 823.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.477E-03	9.797E-04	5.778E-04	4.217E-04	2.109E-04	1.927E-04	1.400E-04	1.218E-04	8.255E-05	6.389E-05
0.027	0.132	0.341	0.367	3.804	4.117	18.118	18.993	48.371	59.434
0.00102	0.00493	0.01277	0.01371	0.14230	0.15398	0.67767	0.71040	1.80920	2.22300
6.024E-05	4.576E-05	4.078E-05	3.869E-05	2.686E-05	1.903E-05	1.871E-05	1.142E-05	8.732E-06	7.714E-06
70.373	71.435	73.123	82.186	82.686	83.311	86.061	86.124	88.062	88.124
2.63213	2.67187	2.73499	3.07398	3.09269	3.11606	3.21893	3.22127	3.29374	3.29608
5.239E-06	4.152E-06	1.937E-06	1.162E-06						
88.499	93.437	99.500	100.000						
3.31011	3.49480	3.72157	3.74028						

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 0.005
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 0.677
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 1.807
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 2.630
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 3.071
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(7)= 3.718

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
6	1	-6.51806	-11.28245	-1.11817

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  6  2      -6.92826 -12.24676  -1.36580
  6  3      -8.87417 -12.36000  -1.41166
  6  4      -9.40215 -13.60631  -2.00648
  6  5      -9.71722 -22.36591  -6.52576
  6  6     -10.15982 -75.21242 -34.77917
  6  7     -13.15417     NUMXQ(K)=  7
    4.799E-04              0.037              1.000
    3.120E-04              0.112              3.000
    2.519E-04              0.187              5.000
    1.854E-04              0.374             10.000
    1.533E-04              0.561             15.000
    1.331E-04              0.748             20.000
    1.186E-04              0.935             25.000
    1.076E-04              1.122             30.000
    9.898E-05              1.309             35.000
    9.193E-05              1.496             40.000
    8.602E-05              1.683             45.000
    8.034E-05              1.870             50.000
    7.425E-05              2.057             55.000
    6.903E-05              2.244             60.000
    6.449E-05              2.431             65.000
    6.051E-05              2.618             70.000
    5.030E-05              2.805             75.000
    4.182E-05              2.992             80.000
    2.300E-05              3.179             85.000
    9.448E-06              3.366             90.000

    1.620E-04              0.5               13.37

ANNUAL AVERAGE =    2.86E-06

K=  6     FIVEXQ(K)= 1.620E-04     FIVEPR(K)=13.368
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE NW SECTOR.

STABILITY CLASS	WINDSPEED AT 10.0 METERS METER/SEC	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.6	2.38	823.	0.	0.	157.1	310.1	157.1	4.187E-06	4.152E-06	4.152E-06
A	3.3	5.19	823.	0.	0.	157.1	310.1	157.1	1.954E-06	1.937E-06	1.937E-06
A	5.6	0.29	823.	0.	0.	157.1	310.1	157.1	1.172E-06	1.162E-06	1.162E-06
B	1.6	1.10	823.	0.	0.	118.1	88.8	118.1	1.945E-05	1.871E-05	1.871E-05
B	3.3	2.67	823.	0.	0.	118.1	88.8	118.1	9.075E-06	8.732E-06	8.732E-06
B	5.6	0.43	823.	0.	0.	118.1	88.8	118.1	5.445E-06	5.239E-06	5.239E-06
B	24.5	0.05	823.	0.	0.	118.1	88.8	118.1	1.237E-06	1.191E-06	1.191E-06
C	1.6	0.52	823.	0.	0.	89.7	51.2	89.7	4.443E-05	4.078E-05	4.078E-05
C	3.3	1.57	823.	0.	0.	89.7	51.2	89.7	2.073E-05	1.903E-05	1.903E-05
C	5.6	0.24	823.	0.	0.	89.7	51.2	89.7	1.244E-05	1.142E-05	1.142E-05
D	0.2	0.02	823.	0.	0.	63.2	27.1	124.7	4.217E-04	6.716E-04	4.217E-04
D	1.6	7.33	823.	0.	0.	63.2	27.1	124.7	6.024E-05	9.594E-05	6.024E-05
D	3.3	18.14	823.	0.	0.	63.2	27.1	90.6	3.869E-05	4.477E-05	3.869E-05
D	5.6	3.67	823.	0.	0.	63.2	27.1	66.1	3.183E-05	2.686E-05	2.686E-05
D	8.2	0.10	823.	0.	0.	63.2	27.1	63.2	2.250E-05	1.815E-05	1.815E-05
E	0.2	0.18	823.	0.	0.	44.9	18.7	132.5	5.778E-04	1.144E-03	5.778E-04
E	1.6	25.85	823.	0.	0.	44.9	18.7	132.5	8.255E-05	1.634E-04	8.255E-05
E	3.3	18.81	823.	0.	0.	44.9	18.7	79.9	6.389E-05	7.627E-05	6.389E-05
E	5.6	2.48	823.	0.	0.	44.9	18.7	48.4	6.329E-05	4.576E-05	4.576E-05
E	8.2	0.05	823.	0.	0.	44.9	18.7	44.9	4.606E-05	3.092E-05	3.092E-05
F	0.2	0.05	823.	0.	0.	31.0	12.0	121.7	9.797E-04	1.827E-03	9.797E-04
F	1.6	6.14	823.	0.	0.	31.0	12.0	121.7	1.400E-04	2.609E-04	1.400E-04
F	3.3	1.14	823.	0.	0.	31.0	12.0	64.2	1.238E-04	1.218E-04	1.218E-04
G	0.2	0.01	823.	0.	0.	21.4	7.7	125.7	1.477E-03	2.891E-03	1.477E-03
G	1.6	1.52	823.	0.	0.	21.4	7.7	125.7	2.109E-04	4.129E-04	2.109E-04
G	3.3	0.10	823.	0.	0.	21.4	7.7	54.9	2.255E-04	1.927E-04	1.927E-04

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

NW SECTOR BOUNDARY DISTANCE = 823.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.477E-03	9.797E-04	5.778E-04	4.217E-04	2.109E-04	1.927E-04	1.400E-04	1.218E-04	8.255E-05	6.389E-05
0.012	0.058	0.242	0.259	1.783	1.878	8.020	9.162	35.014	53.819
0.00059	0.00285	0.01190	0.01273	0.08754	0.09222	0.39380	0.44991	1.71938	2.64283
6.024E-05	4.576E-05	4.078E-05	3.869E-05	3.092E-05	2.686E-05	1.903E-05	1.871E-05	1.815E-05	1.142E-05
61.151	63.627	64.150	82.289	82.337	86.003	87.574	88.669	88.764	89.002
3.00287	3.12443	3.15015	4.04088	4.04322	4.22323	4.30038	4.35415	4.35883	4.37052
8.732E-06	5.239E-06	4.152E-06	1.937E-06	1.191E-06	1.162E-06				
91.668	92.097	94.477	99.667	99.714	100.000				
4.50144	4.52248	4.63937	4.89420	4.89654	4.91057				

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED
CHI/Q WITH RESPECT TO WHEN THE WIND BLOWS
SEC/CUBIC METER THE TOTAL TIME INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 0.003
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 1.717
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 3.000
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 4.037
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 4.220

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
7	1	-6.51806	-11.57853	-1.15526
7	2	-6.92826	-12.14371	-1.29567

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  7  3      -9.40215 -12.23725  -1.33987
  7  4      -9.71722 -15.90901  -3.29212
  7  5     -10.15982 -41.06927 -17.69945
  7  6     -10.52476     NUMXQ(K)=  6
    3.807E-04              0.049              1.000
    2.508E-04              0.147              3.000
    2.037E-04              0.246              5.000
    1.511E-04              0.491             10.000
    1.255E-04              0.737             15.000
    1.094E-04              0.982             20.000
    9.805E-05              1.228             25.000
    8.942E-05              1.473             30.000
    8.256E-05              1.719             35.000
    7.675E-05              1.964             40.000
    7.188E-05              2.210             45.000
    6.771E-05              2.455             50.000
    6.410E-05              2.701             55.000
    6.092E-05              2.946             60.000
    5.510E-05              3.192             65.000
    4.939E-05              3.437             70.000
    4.455E-05              3.683             75.000
    4.040E-05              3.928             80.000
    2.961E-05              4.174             85.000

    1.499E-04              0.5               10.18

ANNUAL AVERAGE =    2.93E-06

K=  7     FIVEXQ(K)= 1.499E-04     FIVEPR(K)=10.182
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE NNW SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 10.0 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.6	1.13	823.	0.	0.	157.1	310.1	157.1	4.187E-06	4.152E-06	4.152E-06
A	3.3	2.78	823.	0.	0.	157.1	310.1	157.1	1.954E-06	1.937E-06	1.937E-06
A	5.6	1.02	823.	0.	0.	157.1	310.1	157.1	1.172E-06	1.162E-06	1.162E-06
A	8.2	0.18	823.	0.	0.	157.1	310.1	157.1	7.921E-07	7.854E-07	7.854E-07
B	1.6	0.46	823.	0.	0.	118.1	88.8	118.1	1.945E-05	1.871E-05	1.871E-05
B	3.3	2.54	823.	0.	0.	118.1	88.8	118.1	9.075E-06	8.732E-06	8.732E-06
B	5.6	1.20	823.	0.	0.	118.1	88.8	118.1	5.445E-06	5.239E-06	5.239E-06
B	8.2	0.25	823.	0.	0.	118.1	88.8	118.1	3.679E-06	3.540E-06	3.540E-06
C	1.6	0.18	823.	0.	0.	89.7	51.2	89.7	4.443E-05	4.078E-05	4.078E-05
C	3.3	1.87	823.	0.	0.	89.7	51.2	89.7	2.073E-05	1.903E-05	1.903E-05
C	5.6	0.60	823.	0.	0.	89.7	51.2	89.7	1.244E-05	1.142E-05	1.142E-05
C	8.2	0.11	823.	0.	0.	89.7	51.2	89.7	8.406E-06	7.714E-06	7.714E-06
C	10.7	0.04	823.	0.	0.	89.7	51.2	89.7	6.479E-06	5.947E-06	5.947E-06
D	0.2	0.02	823.	0.	0.	63.2	27.1	124.7	4.217E-04	6.716E-04	4.217E-04
D	1.6	8.07	823.	0.	0.	63.2	27.1	124.7	6.024E-05	9.594E-05	6.024E-05
D	3.3	20.87	823.	0.	0.	63.2	27.1	90.6	3.869E-05	4.477E-05	3.869E-05
D	5.6	5.29	823.	0.	0.	63.2	27.1	66.1	3.183E-05	2.686E-05	2.686E-05
D	8.2	0.42	823.	0.	0.	63.2	27.1	63.2	2.250E-05	1.815E-05	1.815E-05
E	0.2	0.15	823.	0.	0.	44.9	18.7	132.5	5.778E-04	1.144E-03	5.778E-04
E	1.6	21.15	823.	0.	0.	44.9	18.7	132.5	8.255E-05	1.634E-04	8.255E-05
E	3.3	23.87	823.	0.	0.	44.9	18.7	79.9	6.389E-05	7.627E-05	6.389E-05
E	5.6	2.50	823.	0.	0.	44.9	18.7	48.4	6.329E-05	4.576E-05	4.576E-05
E	8.2	0.21	823.	0.	0.	44.9	18.7	44.9	4.606E-05	3.092E-05	3.092E-05
F	0.2	0.03	823.	0.	0.	31.0	12.0	121.7	9.797E-04	1.827E-03	9.797E-04
F	1.6	3.49	823.	0.	0.	31.0	12.0	121.7	1.400E-04	2.609E-04	1.400E-04
F	3.3	0.63	823.	0.	0.	31.0	12.0	64.2	1.238E-04	1.218E-04	1.218E-04
G	0.2	0.01	823.	0.	0.	21.4	7.7	125.7	1.477E-03	2.891E-03	1.477E-03
G	1.6	0.95	823.	0.	0.	21.4	7.7	125.7	2.109E-04	4.129E-04	2.109E-04

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

NNW SECTOR BOUNDARY DISTANCE = 823.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.477E-03	9.797E-04	5.778E-04	4.217E-04	2.109E-04	1.400E-04	1.218E-04	8.255E-05	6.389E-05	6.024E-05
0.008	0.034	0.184	0.203	1.155	4.645	5.279	26.430	50.295	58.368
0.00050	0.00223	0.01224	0.01347	0.07659	0.30804	0.35012	1.75284	3.33558	3.87095
4.576E-05	4.078E-05	3.869E-05	3.092E-05	2.686E-05	1.903E-05	1.871E-05	1.815E-05	1.142E-05	8.732E-06
60.871	61.047	81.916	82.128	87.415	89.284	89.742	90.165	90.764	93.302
4.03694	4.04863	5.43265	5.44668	5.79736	5.92126	5.95166	5.97971	6.01945	6.18778
7.714E-06	5.947E-06	5.239E-06	4.152E-06	3.540E-06	1.937E-06	1.162E-06	7.854E-07		
93.408	93.443	94.642	95.770	96.017	98.801	99.824	100.000		
6.19479	6.19713	6.27662	6.35143	6.36780	6.55249	6.62029	6.63198		

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 3.868
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 5.429
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 5.794
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 5.976

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
8	1	-6.51806	-11.84871	-1.20678
8	2	-9.71722	-14.55362	-2.73822
8	3	-10.15982	-28.30371	-11.30728

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  8  4      -10.52476 -50.18600 -25.22426
  8  5      -10.91680      NUMXQ(K)=  5
    3.442E-04                0.066               1.000
    2.310E-04                0.199               3.000
    1.893E-04                0.332               5.000
    1.420E-04                0.663              10.000
    1.188E-04                0.995              15.000
    1.040E-04                1.326              20.000
    9.350E-05                1.658              25.000
    8.549E-05                1.990              30.000
    7.910E-05                2.321              35.000
    7.383E-05                2.653              40.000
    6.939E-05                2.984              45.000
    6.558E-05                3.316              50.000
    6.225E-05                3.648              55.000
    5.817E-05                3.979              60.000
    5.251E-05                4.311              65.000
    4.769E-05                4.642              70.000
    4.354E-05                4.974              75.000
    3.995E-05                5.306              80.000
    3.146E-05                5.637              85.000
    1.858E-05                5.969              90.000

    1.601E-04                0.5                 7.54

ANNUAL AVERAGE =    3.49E-06

K=  8      FIVEXQ(K)= 1.601E-04      FIVEPR(K)= 7.539
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE N SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 10.0 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.6	0.23	823.	0.	0.	157.1	310.1	157.1	4.187E-06	4.152E-06	4.152E-06
A	3.3	2.01	823.	0.	0.	157.1	310.1	157.1	1.954E-06	1.937E-06	1.937E-06
A	5.6	2.77	823.	0.	0.	157.1	310.1	157.1	1.172E-06	1.162E-06	1.162E-06
A	8.2	0.37	823.	0.	0.	157.1	310.1	157.1	7.921E-07	7.854E-07	7.854E-07
B	1.6	0.34	823.	0.	0.	118.1	88.8	118.1	1.945E-05	1.871E-05	1.871E-05
B	3.3	2.57	823.	0.	0.	118.1	88.8	118.1	9.075E-06	8.732E-06	8.732E-06
B	5.6	4.10	823.	0.	0.	118.1	88.8	118.1	5.445E-06	5.239E-06	5.239E-06
B	8.2	0.62	823.	0.	0.	118.1	88.8	118.1	3.679E-06	3.540E-06	3.540E-06
C	1.6	0.17	823.	0.	0.	89.7	51.2	89.7	4.443E-05	4.078E-05	4.078E-05
C	3.3	1.87	823.	0.	0.	89.7	51.2	89.7	2.073E-05	1.903E-05	1.903E-05
C	5.6	2.12	823.	0.	0.	89.7	51.2	89.7	1.244E-05	1.142E-05	1.142E-05
C	8.2	0.23	823.	0.	0.	89.7	51.2	89.7	8.406E-06	7.714E-06	7.714E-06
D	0.2	0.01	823.	0.	0.	63.2	27.1	124.7	4.217E-04	6.716E-04	4.217E-04
D	1.6	5.00	823.	0.	0.	63.2	27.1	124.7	6.024E-05	9.594E-05	6.024E-05
D	3.3	15.38	823.	0.	0.	63.2	27.1	90.6	3.869E-05	4.477E-05	3.869E-05
D	5.6	9.19	823.	0.	0.	63.2	27.1	66.1	3.183E-05	2.686E-05	2.686E-05
D	8.2	1.27	823.	0.	0.	63.2	27.1	63.2	2.250E-05	1.815E-05	1.815E-05
E	0.2	0.13	823.	0.	0.	44.9	18.7	132.5	5.778E-04	1.144E-03	5.778E-04
E	1.6	17.92	823.	0.	0.	44.9	18.7	132.5	8.255E-05	1.634E-04	8.255E-05
E	3.3	21.79	823.	0.	0.	44.9	18.7	79.9	6.389E-05	7.627E-05	6.389E-05
E	5.6	5.71	823.	0.	0.	44.9	18.7	48.4	6.329E-05	4.576E-05	4.576E-05
E	8.2	0.71	823.	0.	0.	44.9	18.7	44.9	4.606E-05	3.092E-05	3.092E-05
E	10.7	0.03	823.	0.	0.	44.9	18.7	44.9	3.551E-05	2.383E-05	2.383E-05
F	0.2	0.03	823.	0.	0.	31.0	12.0	121.7	9.797E-04	1.827E-03	9.797E-04
F	1.6	3.42	823.	0.	0.	31.0	12.0	121.7	1.400E-04	2.609E-04	1.400E-04
F	3.3	1.38	823.	0.	0.	31.0	12.0	64.2	1.238E-04	1.218E-04	1.218E-04
G	0.2	0.01	823.	0.	0.	21.4	7.7	125.7	1.477E-03	2.891E-03	1.477E-03
G	1.6	0.65	823.	0.	0.	21.4	7.7	125.7	2.109E-04	4.129E-04	2.109E-04

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

N SECTOR BOUNDARY DISTANCE = 823.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.477E-03	9.797E-04	5.778E-04	4.217E-04	2.109E-04	1.400E-04	1.218E-04	8.255E-05	6.389E-05	6.024E-05
0.005	0.031	0.159	0.170	0.820	4.240	5.625	23.545	45.337	50.339
0.00043	0.00254	0.01311	0.01407	0.06784	0.35072	0.46528	1.94748	3.74998	4.16378
4.576E-05	4.078E-05	3.869E-05	3.092E-05	2.686E-05	2.383E-05	1.903E-05	1.871E-05	1.815E-05	1.142E-05
56.049	56.218	71.594	72.301	81.487	81.515	83.381	83.720	84.992	87.111
4.63603	4.65006	5.92186	5.98031	6.74012	6.74245	6.89675	6.92481	7.03001	7.20535
8.732E-06	7.714E-06	5.239E-06	4.152E-06	3.540E-06	1.937E-06	1.162E-06	7.854E-07		
89.684	89.910	94.008	94.234	94.856	96.863	99.633	100.000		
7.41810	7.43680	7.77579	7.79449	7.84593	8.01192	8.24103	8.27142		

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

CHI/Q	PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED WITH RESPECT TO THE TOTAL TIME	WHEN THE WIND BLOWS INTO THIS SECTOR ONLY
SEC/CUBIC METER		

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 0.003
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 3.747
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 4.160
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 5.918
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 6.736
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(7)= 7.026

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
9	1	-6.51806	-11.08605	-1.02611

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  9  2      -6.92826 -11.79912  -1.20208
  9  3      -9.65837 -11.81984  -1.21372
  9  4      -9.71722 -14.20946  -2.59311
  9  5     -10.15982 -18.79955  -5.53229
  9  6     -10.52476 -37.32388 -17.91712
  9  7     -10.91680     NUMXQ(K)=  7
    3.299E-04              0.083              1.000
    2.201E-04              0.248              3.000
    1.797E-04              0.414              5.000
    1.340E-04              0.827             10.000
    1.116E-04              1.241             15.000
    9.738E-05              1.654             20.000
    8.728E-05              2.068             25.000
    7.958E-05              2.481             30.000
    7.345E-05              2.895             35.000
    6.840E-05              3.309             40.000
    6.415E-05              3.722             45.000
    6.047E-05              4.136             50.000
    5.405E-05              4.549             55.000
    4.850E-05              4.963             60.000
    4.383E-05              5.376             65.000
    3.984E-05              5.790             70.000
    3.398E-05              6.204             75.000
    2.831E-05              6.617             80.000

    1.662E-04              0.5                6.04

ANNUAL AVERAGE =   3.79E-06

K=  9     FIVEXQ(K)= 1.662E-04     FIVEPR(K)= 6.045
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE NNE SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 10.0 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.6	0.17	823.	0.	0.	157.1	310.1	157.1	4.187E-06	4.152E-06	4.152E-06
A	3.3	2.41	823.	0.	0.	157.1	310.1	157.1	1.954E-06	1.937E-06	1.937E-06
A	5.6	1.74	823.	0.	0.	157.1	310.1	157.1	1.172E-06	1.162E-06	1.162E-06
A	8.2	0.06	823.	0.	0.	157.1	310.1	157.1	7.921E-07	7.854E-07	7.854E-07
B	1.6	0.11	823.	0.	0.	118.1	88.8	118.1	1.945E-05	1.871E-05	1.871E-05
B	3.3	2.52	823.	0.	0.	118.1	88.8	118.1	9.075E-06	8.732E-06	8.732E-06
B	5.6	2.58	823.	0.	0.	118.1	88.8	118.1	5.445E-06	5.239E-06	5.239E-06
B	8.2	0.06	823.	0.	0.	118.1	88.8	118.1	3.679E-06	3.540E-06	3.540E-06
C	3.3	1.35	823.	0.	0.	89.7	51.2	89.7	2.073E-05	1.903E-05	1.903E-05
C	5.6	1.74	823.	0.	0.	89.7	51.2	89.7	1.244E-05	1.142E-05	1.142E-05
D	0.2	0.01	823.	0.	0.	63.2	27.1	124.7	4.217E-04	6.716E-04	4.217E-04
D	1.6	5.16	823.	0.	0.	63.2	27.1	124.7	6.024E-05	9.594E-05	6.024E-05
D	3.3	13.07	823.	0.	0.	63.2	27.1	90.6	3.869E-05	4.477E-05	3.869E-05
D	5.6	6.06	823.	0.	0.	63.2	27.1	66.1	3.183E-05	2.686E-05	2.686E-05
D	8.2	0.56	823.	0.	0.	63.2	27.1	63.2	2.250E-05	1.815E-05	1.815E-05
D	10.7	0.11	823.	0.	0.	63.2	27.1	63.2	1.735E-05	1.399E-05	1.399E-05
E	0.2	0.15	823.	0.	0.	44.9	18.7	132.5	5.778E-04	1.144E-03	5.778E-04
E	1.6	21.04	823.	0.	0.	44.9	18.7	132.5	8.255E-05	1.634E-04	8.255E-05
E	3.3	21.93	823.	0.	0.	44.9	18.7	79.9	6.389E-05	7.627E-05	6.389E-05
E	5.6	3.03	823.	0.	0.	44.9	18.7	48.4	6.329E-05	4.576E-05	4.576E-05
E	8.2	0.22	823.	0.	0.	44.9	18.7	44.9	4.606E-05	3.092E-05	3.092E-05
F	0.2	0.08	823.	0.	0.	31.0	12.0	121.7	9.797E-04	1.827E-03	9.797E-04
F	1.6	11.00	823.	0.	0.	31.0	12.0	121.7	1.400E-04	2.609E-04	1.400E-04
F	3.3	2.58	823.	0.	0.	31.0	12.0	64.2	1.238E-04	1.218E-04	1.218E-04
G	0.2	0.01	823.	0.	0.	21.4	7.7	125.7	1.477E-03	2.891E-03	1.477E-03
G	1.6	1.85	823.	0.	0.	21.4	7.7	125.7	2.109E-04	4.129E-04	2.109E-04
G	3.3	0.39	823.	0.	0.	21.4	7.7	54.9	2.255E-04	1.927E-04	1.927E-04

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

NNE SECTOR BOUNDARY DISTANCE = 823.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.477E-03	9.797E-04	5.778E-04	4.217E-04	2.109E-04	1.927E-04	1.400E-04	1.218E-04	8.255E-05	6.389E-05
0.015	0.097	0.247	0.259	2.110	2.503	13.498	16.078	37.115	59.049
0.00061	0.00403	0.01029	0.01078	0.08793	0.10430	0.56252	0.67006	1.54676	2.46087
6.024E-05	4.576E-05	3.869E-05	3.092E-05	2.686E-05	1.903E-05	1.871E-05	1.815E-05	1.399E-05	1.142E-05
64.210	67.239	80.310	80.534	86.593	87.939	88.051	88.612	88.724	90.463
2.67595	2.80220	3.34692	3.35627	3.60876	3.66487	3.66955	3.69293	3.69760	3.77008
8.732E-06	5.239E-06	4.152E-06	3.540E-06	1.937E-06	1.162E-06	7.854E-07			
92.988	95.568	95.737	95.793	98.205	99.944	100.000			
3.87528	3.98282	3.98984	3.99218	4.09270	4.16518	4.16752			

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED
CHI/Q WITH RESPECT TO WHEN THE WIND BLOWS
SEC/CUBIC METER THE TOTAL TIME INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 2.458
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 2.673
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 3.344
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 3.606
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(7)= 3.872

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
10	1	-6.51806	-10.67817	-0.95117
10	2	-6.92826	-12.37723	-1.38214

```
 10   3      -9.65837 -12.87442  -1.63489
 10   4      -9.71722 -18.38227  -4.48702
 10   5     -10.15982 -29.78085 -10.70727
 10   6     -10.52476 -72.37913 -34.39386
 10   7     -11.64850     NUMXQ(K)=  7
    4.271E-04              0.042              1.000
    2.751E-04              0.125              3.000
    2.212E-04              0.208              5.000
    1.616E-04              0.417             10.000
    1.331E-04              0.625             15.000
    1.153E-04              0.834             20.000
    1.028E-04              1.042             25.000
    9.338E-05              1.250             30.000
    8.593E-05              1.459             35.000
    7.984E-05              1.667             40.000
    7.474E-05              1.875             45.000
    7.038E-05              2.084             50.000
    6.661E-05              2.292             55.000
    6.318E-05              2.501             60.000
    5.882E-05              2.709             65.000
    5.088E-05              2.917             70.000
    4.438E-05              3.126             75.000
    3.900E-05              3.334             80.000
    2.940E-05              3.542             85.000
    1.464E-05              3.751             90.000

    1.483E-04              0.5               12.00

ANNUAL AVERAGE =   2.55E-06

K= 10     FIVEXQ(K)= 1.483E-04     FIVEPR(K)=11.998
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE NE SECTOR.

STABILITY CLASS	WINDSPEED AT 10.0 METERS METER/SEC	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.6	0.21	823.	0.	0.	157.1	310.1	157.1	4.187E-06	4.152E-06	4.152E-06
A	3.3	2.81	823.	0.	0.	157.1	310.1	157.1	1.954E-06	1.937E-06	1.937E-06
A	5.6	2.03	823.	0.	0.	157.1	310.1	157.1	1.172E-06	1.162E-06	1.162E-06
A	8.2	0.16	823.	0.	0.	157.1	310.1	157.1	7.921E-07	7.854E-07	7.854E-07
B	1.6	0.31	823.	0.	0.	118.1	88.8	118.1	1.945E-05	1.871E-05	1.871E-05
B	3.3	3.34	823.	0.	0.	118.1	88.8	118.1	9.075E-06	8.732E-06	8.732E-06
B	5.6	1.46	823.	0.	0.	118.1	88.8	118.1	5.445E-06	5.239E-06	5.239E-06
B	8.2	0.16	823.	0.	0.	118.1	88.8	118.1	3.679E-06	3.540E-06	3.540E-06
C	1.6	0.26	823.	0.	0.	89.7	51.2	89.7	4.443E-05	4.078E-05	4.078E-05
C	3.3	1.25	823.	0.	0.	89.7	51.2	89.7	2.073E-05	1.903E-05	1.903E-05
C	5.6	1.15	823.	0.	0.	89.7	51.2	89.7	1.244E-05	1.142E-05	1.142E-05
D	0.2	0.01	823.	0.	0.	63.2	27.1	124.7	4.217E-04	6.716E-04	4.217E-04
D	1.6	4.06	823.	0.	0.	63.2	27.1	124.7	6.024E-05	9.594E-05	6.024E-05
D	3.3	9.80	823.	0.	0.	63.2	27.1	90.6	3.869E-05	4.477E-05	3.869E-05
D	5.6	4.06	823.	0.	0.	63.2	27.1	66.1	3.183E-05	2.686E-05	2.686E-05
D	8.2	0.26	823.	0.	0.	63.2	27.1	63.2	2.250E-05	1.815E-05	1.815E-05
E	0.2	0.12	823.	0.	0.	44.9	18.7	132.5	5.778E-04	1.144E-03	5.778E-04
E	1.6	16.94	823.	0.	0.	44.9	18.7	132.5	8.255E-05	1.634E-04	8.255E-05
E	3.3	16.88	823.	0.	0.	44.9	18.7	79.9	6.389E-05	7.627E-05	6.389E-05
E	5.6	2.40	823.	0.	0.	44.9	18.7	48.4	6.329E-05	4.576E-05	4.576E-05
F	0.2	0.11	823.	0.	0.	31.0	12.0	121.7	9.797E-04	1.827E-03	9.797E-04
F	1.6	15.32	823.	0.	0.	31.0	12.0	121.7	1.400E-04	2.609E-04	1.400E-04
F	3.3	5.05	823.	0.	0.	31.0	12.0	64.2	1.238E-04	1.218E-04	1.218E-04
F	5.6	0.05	823.	0.	0.	31.0	12.0	34.1	1.400E-04	7.306E-05	7.306E-05
G	0.2	0.07	823.	0.	0.	21.4	7.7	125.7	1.477E-03	2.891E-03	1.477E-03
G	1.6	8.65	823.	0.	0.	21.4	7.7	125.7	2.109E-04	4.129E-04	2.109E-04
G	3.3	3.07	823.	0.	0.	21.4	7.7	54.9	2.255E-04	1.927E-04	1.927E-04

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

NE SECTOR BOUNDARY DISTANCE = 823.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.477E-03	9.797E-04	5.778E-04	4.217E-04	2.109E-04	1.927E-04	1.400E-04	1.218E-04	8.255E-05	7.306E-05
0.068	0.183	0.304	0.313	8.963	12.038	27.358	32.413	49.349	49.401
0.00307	0.00821	0.01363	0.01405	0.40213	0.54007	1.22740	1.45418	2.21398	2.21632
6.389E-05	6.024E-05	4.576E-05	4.078E-05	3.869E-05	2.686E-05	1.903E-05	1.871E-05	1.815E-05	1.142E-05
66.285	70.349	72.746	73.007	82.804	86.868	88.119	88.432	88.692	89.838
2.97379	3.15614	3.26369	3.27538	3.71489	3.89725	3.95336	3.96738	3.97907	4.03051
8.732E-06	5.239E-06	4.152E-06	3.540E-06	1.937E-06	1.162E-06	7.854E-07			
93.174	94.633	94.841	94.997	97.811	99.844	100.000			
4.18013	4.24559	4.25494	4.26196	4.38820	4.47938	4.48639			

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 1.226
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 1.453
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 2.971
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 3.153
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 3.712
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(7)= 3.894

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
11	1	-6.51806	-11.88757	-1.33995

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 11  2      -8.87417 -13.61017  -2.10593
 11  3      -9.01335 -13.74251  -2.16656
 11  4      -9.65837 -13.87055  -2.23449
 11  5      -9.71722 -20.89988  -6.01626
 11  6     -10.15982 -39.71434 -16.55554
 11  7     -10.52476     NUMXQ(K)=  7
    5.888E-04               0.045              1.000
    3.835E-04               0.135              3.000
    3.099E-04               0.224              5.000
    2.281E-04               0.449             10.000
    1.887E-04               0.673             15.000
    1.640E-04               0.897             20.000
    1.466E-04               1.122             25.000
    1.298E-04               1.346             30.000
    1.140E-04               1.570             35.000
    1.015E-04               1.795             40.000
    9.139E-05               2.019             45.000
    8.309E-05               2.243             50.000
    7.613E-05               2.468             55.000
    7.020E-05               2.692             60.000
    6.509E-05               2.916             65.000
    6.054E-05               3.140             70.000
    5.070E-05               3.365             75.000
    4.253E-05               3.589             80.000
    3.171E-05               3.813             85.000

    2.170E-04               0.5               11.14

ANNUAL AVERAGE =   3.47E-06

K= 11      FIVEXQ(K)= 2.170E-04      FIVEPR(K)=11.145
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE ENE SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 10.0 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.6	0.24	823.	0.	0.	157.1	310.1	157.1	4.187E-06	4.152E-06	4.152E-06
A	3.3	1.35	823.	0.	0.	157.1	310.1	157.1	1.954E-06	1.937E-06	1.937E-06
A	5.6	0.97	823.	0.	0.	157.1	310.1	157.1	1.172E-06	1.162E-06	1.162E-06
A	8.2	0.03	823.	0.	0.	157.1	310.1	157.1	7.921E-07	7.854E-07	7.854E-07
B	1.6	0.21	823.	0.	0.	118.1	88.8	118.1	1.945E-05	1.871E-05	1.871E-05
B	3.3	1.45	823.	0.	0.	118.1	88.8	118.1	9.075E-06	8.732E-06	8.732E-06
B	5.6	0.83	823.	0.	0.	118.1	88.8	118.1	5.445E-06	5.239E-06	5.239E-06
C	1.6	0.14	823.	0.	0.	89.7	51.2	89.7	4.443E-05	4.078E-05	4.078E-05
C	3.3	0.73	823.	0.	0.	89.7	51.2	89.7	2.073E-05	1.903E-05	1.903E-05
C	5.6	0.76	823.	0.	0.	89.7	51.2	89.7	1.244E-05	1.142E-05	1.142E-05
D	0.2	0.01	823.	0.	0.	63.2	27.1	124.7	4.217E-04	6.716E-04	4.217E-04
D	1.6	3.63	823.	0.	0.	63.2	27.1	124.7	6.024E-05	9.594E-05	6.024E-05
D	3.3	6.04	823.	0.	0.	63.2	27.1	90.6	3.869E-05	4.477E-05	3.869E-05
D	5.6	2.56	823.	0.	0.	63.2	27.1	66.1	3.183E-05	2.686E-05	2.686E-05
D	8.2	0.14	823.	0.	0.	63.2	27.1	63.2	2.250E-05	1.815E-05	1.815E-05
E	0.2	0.10	823.	0.	0.	44.9	18.7	132.5	5.778E-04	1.144E-03	5.778E-04
E	1.6	13.64	823.	0.	0.	44.9	18.7	132.5	8.255E-05	1.634E-04	8.255E-05
E	3.3	14.99	823.	0.	0.	44.9	18.7	79.9	6.389E-05	7.627E-05	6.389E-05
E	5.6	1.76	823.	0.	0.	44.9	18.7	48.4	6.329E-05	4.576E-05	4.576E-05
F	0.2	0.12	823.	0.	0.	31.0	12.0	121.7	9.797E-04	1.827E-03	9.797E-04
F	1.6	15.58	823.	0.	0.	31.0	12.0	121.7	1.400E-04	2.609E-04	1.400E-04
F	3.3	8.70	823.	0.	0.	31.0	12.0	64.2	1.238E-04	1.218E-04	1.218E-04
F	5.6	0.10	823.	0.	0.	31.0	12.0	34.1	1.400E-04	7.306E-05	7.306E-05
G	0.2	0.13	823.	0.	0.	21.4	7.7	125.7	1.477E-03	2.891E-03	1.477E-03
G	1.6	16.99	823.	0.	0.	21.4	7.7	125.7	2.109E-04	4.129E-04	2.109E-04
G	3.3	8.77	823.	0.	0.	21.4	7.7	54.9	2.255E-04	1.927E-04	1.927E-04
G	5.6	0.03	823.	0.	0.	21.4	7.7	24.2	3.073E-04	1.156E-04	1.156E-04

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

ENE SECTOR BOUNDARY DISTANCE = 823.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.477E-03	9.797E-04	5.778E-04	4.217E-04	2.109E-04	1.927E-04	1.400E-04	1.218E-04	1.156E-04	8.255E-05
0.135	0.251	0.348	0.357	17.349	26.122	41.699	50.403	50.437	64.080
0.00910	0.01698	0.02357	0.02414	1.17437	1.76819	2.82256	3.41171	3.41405	4.33750
7.306E-05	6.389E-05	6.024E-05	4.576E-05	4.078E-05	3.869E-05	2.686E-05	1.903E-05	1.871E-05	1.815E-05
64.184	79.173	82.800	84.561	84.699	90.744	93.300	94.025	94.232	94.370
4.34452	5.35915	5.60463	5.72386	5.73321	6.14234	6.31534	6.36444	6.37846	6.38781
1.142E-05	8.732E-06	5.239E-06	4.152E-06	1.937E-06	1.162E-06	7.854E-07			
95.130	96.581	97.410	97.651	98.998	99.965	100.000			
6.43925	6.53744	6.59355	6.60991	6.70109	6.76655	6.76889			

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 1.766
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 2.820
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 3.409
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 5.601
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 6.138
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(7)= 6.311

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
12	1	-6.51806	-11.17049	-1.24305

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 12  2      -8.55435 -11.97717  -1.62634
 12  3      -8.87417 -12.03187  -1.65501
 12  4      -9.01335 -14.48388  -2.99942
 12  5      -9.71722 -25.02701  -9.63368
 12  6     -10.15982 -50.07148 -25.86205
 12  7     -10.52476     NUMXQ(K)=  7
    7.563E-04              0.068              1.000
    5.013E-04              0.203              3.000
    4.082E-04              0.338              5.000
    3.034E-04              0.677             10.000
    2.522E-04              1.015             15.000
    2.199E-04              1.354             20.000
    1.970E-04              1.692             25.000
    1.757E-04              2.031             30.000
    1.582E-04              2.369             35.000
    1.441E-04              2.708             40.000
    1.324E-04              3.046             45.000
    1.225E-04              3.384             50.000
    1.081E-04              3.723             55.000
    9.583E-05              4.061             60.000
    8.562E-05              4.400             65.000
    7.702E-05              4.738             70.000
    6.970E-05              5.077             75.000
    6.339E-05              5.415             80.000
    5.312E-05              5.754             85.000
    4.028E-05              6.092             90.000

    3.463E-04              0.5                7.39

ANNUAL AVERAGE =    6.49E-06

K= 12      FIVEXQ(K)= 3.463E-04      FIVEPR(K)= 7.387
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE E SECTOR.

STABILITY CLASS	WINDSPEED AT 10.0 METERS METER/SEC	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.6	0.43	823.	0.	0.	157.1	310.1	157.1	4.187E-06	4.152E-06	4.152E-06
A	3.3	2.64	823.	0.	0.	157.1	310.1	157.1	1.954E-06	1.937E-06	1.937E-06
A	5.6	1.64	823.	0.	0.	157.1	310.1	157.1	1.172E-06	1.162E-06	1.162E-06
A	8.2	0.11	823.	0.	0.	157.1	310.1	157.1	7.921E-07	7.854E-07	7.854E-07
B	1.6	0.43	823.	0.	0.	118.1	88.8	118.1	1.945E-05	1.871E-05	1.871E-05
B	3.3	1.81	823.	0.	0.	118.1	88.8	118.1	9.075E-06	8.732E-06	8.732E-06
B	5.6	1.45	823.	0.	0.	118.1	88.8	118.1	5.445E-06	5.239E-06	5.239E-06
B	8.2	0.06	823.	0.	0.	118.1	88.8	118.1	3.679E-06	3.540E-06	3.540E-06
C	1.6	0.17	823.	0.	0.	89.7	51.2	89.7	4.443E-05	4.078E-05	4.078E-05
C	3.3	1.19	823.	0.	0.	89.7	51.2	89.7	2.073E-05	1.903E-05	1.903E-05
C	5.6	0.99	823.	0.	0.	89.7	51.2	89.7	1.244E-05	1.142E-05	1.142E-05
C	8.2	0.09	823.	0.	0.	89.7	51.2	89.7	8.406E-06	7.714E-06	7.714E-06
D	0.2	0.01	823.	0.	0.	63.2	27.1	124.7	4.217E-04	6.716E-04	4.217E-04
D	1.6	3.46	823.	0.	0.	63.2	27.1	124.7	6.024E-05	9.594E-05	6.024E-05
D	3.3	8.42	823.	0.	0.	63.2	27.1	90.6	3.869E-05	4.477E-05	3.869E-05
D	5.6	6.06	823.	0.	0.	63.2	27.1	66.1	3.183E-05	2.686E-05	2.686E-05
D	8.2	1.22	823.	0.	0.	63.2	27.1	63.2	2.250E-05	1.815E-05	1.815E-05
E	0.2	0.09	823.	0.	0.	44.9	18.7	132.5	5.778E-04	1.144E-03	5.778E-04
E	1.6	12.70	823.	0.	0.	44.9	18.7	132.5	8.255E-05	1.634E-04	8.255E-05
E	3.3	18.93	823.	0.	0.	44.9	18.7	79.9	6.389E-05	7.627E-05	6.389E-05
E	5.6	3.49	823.	0.	0.	44.9	18.7	48.4	6.329E-05	4.576E-05	4.576E-05
E	8.2	0.17	823.	0.	0.	44.9	18.7	44.9	4.606E-05	3.092E-05	3.092E-05
F	0.2	0.11	823.	0.	0.	31.0	12.0	121.7	9.797E-04	1.827E-03	9.797E-04
F	1.6	14.17	823.	0.	0.	31.0	12.0	121.7	1.400E-04	2.609E-04	1.400E-04
F	3.3	6.04	823.	0.	0.	31.0	12.0	64.2	1.238E-04	1.218E-04	1.218E-04
G	0.2	0.10	823.	0.	0.	21.4	7.7	125.7	1.477E-03	2.891E-03	1.477E-03
G	1.6	12.04	823.	0.	0.	21.4	7.7	125.7	2.109E-04	4.129E-04	2.109E-04
G	3.3	2.01	823.	0.	0.	21.4	7.7	54.9	2.255E-04	1.927E-04	1.927E-04

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

E SECTOR BOUNDARY DISTANCE = 823.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.477E-03	9.797E-04	5.778E-04	4.217E-04	2.109E-04	1.927E-04	1.400E-04	1.218E-04	8.255E-05	6.389E-05
0.095	0.201	0.292	0.300	12.344	14.356	28.526	34.563	47.259	66.190
0.00786	0.01660	0.02407	0.02473	1.01832	1.18431	2.35324	2.85121	3.89858	5.46027
6.024E-05	4.576E-05	4.078E-05	3.869E-05	3.092E-05	2.686E-05	1.903E-05	1.871E-05	1.815E-05	1.142E-05
69.648	73.134	73.304	81.721	81.891	87.955	89.146	89.571	90.789	91.781
5.74549	6.03305	6.04708	6.74143	6.75545	7.25576	7.35395	7.38902	7.48954	7.57137
8.732E-06	7.714E-06	5.239E-06	4.152E-06	3.540E-06	1.937E-06	1.162E-06	7.854E-07		
93.595	93.680	95.126	95.551	95.607	98.243	99.887	100.000		
7.72099	7.72801	7.84724	7.88231	7.88698	8.10440	8.24000	8.24935		

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED
CHI/Q WITH RESPECT TO WHEN THE WIND BLOWS
SEC/CUBIC METER THE TOTAL TIME INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 2.351
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 2.848
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 5.456
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 5.742
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 6.738
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(7)= 7.252
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(8)= 7.486

K I XQSAVE(K,I) XQINT(K,I) XQSLOP(K,I)

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 13  1      -6.51806 -11.48381  -1.31392
 13  2      -8.87417 -12.22066  -1.68491
 13  3      -9.01335 -13.08667  -2.13986
 13  4      -9.65837 -13.38812  -2.32802
 13  5      -9.71722 -18.31104  -5.45004
 13  6     -10.15982 -24.39482  -9.51776
 13  7     -10.52476 -44.64853 -23.41603
 13  8     -10.91680     NUMXQ(K)=  8
    6.435E-04              0.082             1.000
    4.135E-04              0.247             3.000
    3.314E-04              0.412             5.000
    2.405E-04              0.825            10.000
    1.968E-04              1.237            15.000
    1.696E-04              1.650            20.000
    1.505E-04              2.062            25.000
    1.350E-04              2.475            30.000
    1.203E-04              2.887            35.000
    1.060E-04              3.300            40.000
    9.459E-05              3.712            45.000
    8.523E-05              4.125            50.000
    7.742E-05              4.537            55.000
    7.080E-05              4.950            60.000
    6.512E-05              5.362            65.000
    5.942E-05              5.775            70.000
    4.917E-05              6.187            75.000
    4.108E-05              6.599            80.000
    3.185E-05              7.012            85.000
    2.023E-05              7.424            90.000

    3.039E-04              0.5               6.06

ANNUAL AVERAGE =   6.50E-06

K= 13     FIVEXQ(K)= 3.039E-04     FIVEPR(K)= 6.061
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE ESE SECTOR.

STABILITY CLASS	WINDSPEED AT 10.0 METERS METER/SEC	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.6	0.39	823.	0.	0.	157.1	310.1	157.1	4.187E-06	4.152E-06	4.152E-06
A	3.3	2.50	823.	0.	0.	157.1	310.1	157.1	1.954E-06	1.937E-06	1.937E-06
A	5.6	0.87	823.	0.	0.	157.1	310.1	157.1	1.172E-06	1.162E-06	1.162E-06
A	8.2	0.19	823.	0.	0.	157.1	310.1	157.1	7.921E-07	7.854E-07	7.854E-07
B	1.6	0.29	823.	0.	0.	118.1	88.8	118.1	1.945E-05	1.871E-05	1.871E-05
B	3.3	1.71	823.	0.	0.	118.1	88.8	118.1	9.075E-06	8.732E-06	8.732E-06
B	5.6	1.71	823.	0.	0.	118.1	88.8	118.1	5.445E-06	5.239E-06	5.239E-06
B	8.2	0.39	823.	0.	0.	118.1	88.8	118.1	3.679E-06	3.540E-06	3.540E-06
B	10.7	0.02	823.	0.	0.	118.1	88.8	118.1	2.836E-06	2.729E-06	2.729E-06
C	1.6	0.17	823.	0.	0.	89.7	51.2	89.7	4.443E-05	4.078E-05	4.078E-05
C	3.3	0.89	823.	0.	0.	89.7	51.2	89.7	2.073E-05	1.903E-05	1.903E-05
C	5.6	1.28	823.	0.	0.	89.7	51.2	89.7	1.244E-05	1.142E-05	1.142E-05
C	8.2	0.29	823.	0.	0.	89.7	51.2	89.7	8.406E-06	7.714E-06	7.714E-06
D	0.2	0.01	823.	0.	0.	63.2	27.1	124.7	4.217E-04	6.716E-04	4.217E-04
D	1.6	3.08	823.	0.	0.	63.2	27.1	124.7	6.024E-05	9.594E-05	6.024E-05
D	3.3	10.41	823.	0.	0.	63.2	27.1	90.6	3.869E-05	4.477E-05	3.869E-05
D	5.6	13.85	823.	0.	0.	63.2	27.1	66.1	3.183E-05	2.686E-05	2.686E-05
D	8.2	1.37	823.	0.	0.	63.2	27.1	63.2	2.250E-05	1.815E-05	1.815E-05
D	10.7	0.02	823.	0.	0.	63.2	27.1	63.2	1.735E-05	1.399E-05	1.399E-05
E	0.2	0.09	823.	0.	0.	44.9	18.7	132.5	5.778E-04	1.144E-03	5.778E-04
E	1.6	11.99	823.	0.	0.	44.9	18.7	132.5	8.255E-05	1.634E-04	8.255E-05
E	3.3	24.18	823.	0.	0.	44.9	18.7	79.9	6.389E-05	7.627E-05	6.389E-05
E	5.6	4.65	823.	0.	0.	44.9	18.7	48.4	6.329E-05	4.576E-05	4.576E-05
E	8.2	0.19	823.	0.	0.	44.9	18.7	44.9	4.606E-05	3.092E-05	3.092E-05
F	0.2	0.07	823.	0.	0.	31.0	12.0	121.7	9.797E-04	1.827E-03	9.797E-04
F	1.6	10.02	823.	0.	0.	31.0	12.0	121.7	1.400E-04	2.609E-04	1.400E-04
F	3.3	3.28	823.	0.	0.	31.0	12.0	64.2	1.238E-04	1.218E-04	1.218E-04
F	5.6	0.02	823.	0.	0.	31.0	12.0	34.1	1.400E-04	7.306E-05	7.306E-05
G	0.2	0.04	823.	0.	0.	21.4	7.7	125.7	1.477E-03	2.891E-03	1.477E-03
G	1.6	5.64	823.	0.	0.	21.4	7.7	125.7	2.109E-04	4.129E-04	2.109E-04
G	3.3	0.39	823.	0.	0.	21.4	7.7	54.9	2.255E-04	1.927E-04	1.927E-04

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

ESE SECTOR BOUNDARY DISTANCE = 823.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.477E-03	9.797E-04	5.778E-04	4.217E-04	2.109E-04	1.927E-04	1.400E-04	1.218E-04	8.255E-05	7.306E-05
0.045	0.119	0.205	0.212	5.848	6.234	16.253	19.529	31.524	31.548
0.00433	0.01160	0.01990	0.02059	0.56765	0.60506	1.57761	1.89556	3.05982	3.06216
6.389E-05	6.024E-05	4.576E-05	4.078E-05	3.869E-05	3.092E-05	2.686E-05	1.903E-05	1.871E-05	1.815E-05
55.730	58.813	63.462	63.630	74.035	74.228	88.077	88.969	89.258	90.631
5.40938	5.70863	6.15983	6.17620	7.18616	7.20486	8.54914	8.63564	8.66369	8.79695
1.399E-05	1.142E-05	8.732E-06	7.714E-06	5.239E-06	4.152E-06	3.540E-06	2.729E-06	1.937E-06	1.162E-06
90.655	91.931	93.641	93.930	95.640	96.026	96.411	96.435	98.940	99.807
8.79929	8.92319	9.08918	9.11724	9.28323	9.32063	9.35804	9.36038	9.60352	9.68768
7.854E-07									
100.000									
9.70638									

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 1.576
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 5.406
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 5.705
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 7.182
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 8.546

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(7)= 8.793

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
14	1	-6.51806	-11.72884	-1.32745
14	2	-8.87417	-11.97563	-1.44222
14	3	-9.65837	-13.20141	-2.20511
14	4	-9.71722	-15.65874	-3.76034
14	5	-10.15982	-15.89438	-3.92148
14	6	-10.52476	-44.72396	-24.97599
14	7	-10.91680	NUMXQ(K)= 7	

4.932E-04	0.097	1.000
3.135E-04	0.291	3.000
2.497E-04	0.485	5.000
1.795E-04	0.971	10.000
1.460E-04	1.456	15.000
1.240E-04	1.941	20.000
1.084E-04	2.427	25.000
9.673E-05	2.912	30.000
8.762E-05	3.397	35.000
8.026E-05	3.883	40.000
7.414E-05	4.368	45.000
6.895E-05	4.853	50.000
6.449E-05	5.339	55.000
5.802E-05	5.824	60.000
4.984E-05	6.309	65.000
4.319E-05	6.794	70.000
3.768E-05	7.280	75.000
3.294E-05	7.765	80.000
2.898E-05	8.250	85.000
1.998E-05	8.736	90.000
2.463E-04	0.5	5.15

ANNUAL AVERAGE = 5.73E-06

K= 14 FIVEXQ(K)= 2.463E-04 FIVEPR(K)= 5.151

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE SE SECTOR.

STABILITY CLASS	WINDSPEED AT 10.0 METERS METER/SEC	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.6	0.49	823.	0.	0.	157.1	310.1	157.1	4.187E-06	4.152E-06	4.152E-06
A	3.3	1.58	823.	0.	0.	157.1	310.1	157.1	1.954E-06	1.937E-06	1.937E-06
A	5.6	0.51	823.	0.	0.	157.1	310.1	157.1	1.172E-06	1.162E-06	1.162E-06
A	8.2	0.06	823.	0.	0.	157.1	310.1	157.1	7.921E-07	7.854E-07	7.854E-07
B	1.6	0.18	823.	0.	0.	118.1	88.8	118.1	1.945E-05	1.871E-05	1.871E-05
B	3.3	1.40	823.	0.	0.	118.1	88.8	118.1	9.075E-06	8.732E-06	8.732E-06
B	5.6	1.83	823.	0.	0.	118.1	88.8	118.1	5.445E-06	5.239E-06	5.239E-06
B	8.2	0.43	823.	0.	0.	118.1	88.8	118.1	3.679E-06	3.540E-06	3.540E-06
C	1.6	0.18	823.	0.	0.	89.7	51.2	89.7	4.443E-05	4.078E-05	4.078E-05
C	3.3	0.94	823.	0.	0.	89.7	51.2	89.7	2.073E-05	1.903E-05	1.903E-05
C	5.6	1.64	823.	0.	0.	89.7	51.2	89.7	1.244E-05	1.142E-05	1.142E-05
C	8.2	0.41	823.	0.	0.	89.7	51.2	89.7	8.406E-06	7.714E-06	7.714E-06
D	0.2	0.01	823.	0.	0.	63.2	27.1	124.7	4.217E-04	6.716E-04	4.217E-04
D	1.6	3.94	823.	0.	0.	63.2	27.1	124.7	6.024E-05	9.594E-05	6.024E-05
D	3.3	15.18	823.	0.	0.	63.2	27.1	90.6	3.869E-05	4.477E-05	3.869E-05
D	5.6	18.92	823.	0.	0.	63.2	27.1	66.1	3.183E-05	2.686E-05	2.686E-05
D	8.2	3.47	823.	0.	0.	63.2	27.1	63.2	2.250E-05	1.815E-05	1.815E-05
E	0.2	0.09	823.	0.	0.	44.9	18.7	132.5	5.778E-04	1.144E-03	5.778E-04
E	1.6	12.49	823.	0.	0.	44.9	18.7	132.5	8.255E-05	1.634E-04	8.255E-05
E	3.3	19.45	823.	0.	0.	44.9	18.7	79.9	6.389E-05	7.627E-05	6.389E-05
E	5.6	5.27	823.	0.	0.	44.9	18.7	48.4	6.329E-05	4.576E-05	4.576E-05
E	8.2	0.18	823.	0.	0.	44.9	18.7	44.9	4.606E-05	3.092E-05	3.092E-05
F	0.2	0.05	823.	0.	0.	31.0	12.0	121.7	9.797E-04	1.827E-03	9.797E-04
F	1.6	6.79	823.	0.	0.	31.0	12.0	121.7	1.400E-04	2.609E-04	1.400E-04
F	3.3	1.87	823.	0.	0.	31.0	12.0	64.2	1.238E-04	1.218E-04	1.218E-04
F	5.6	0.02	823.	0.	0.	31.0	12.0	34.1	1.400E-04	7.306E-05	7.306E-05
G	0.2	0.02	823.	0.	0.	21.4	7.7	125.7	1.477E-03	2.891E-03	1.477E-03
G	1.6	2.44	823.	0.	0.	21.4	7.7	125.7	2.109E-04	4.129E-04	2.109E-04
G	3.3	0.14	823.	0.	0.	21.4	7.7	54.9	2.255E-04	1.927E-04	1.927E-04

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

SE SECTOR BOUNDARY DISTANCE = 823.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.477E-03	9.797E-04	5.778E-04	4.217E-04	2.109E-04	1.927E-04	1.400E-04	1.218E-04	8.255E-05	7.306E-05
0.019	0.070	0.159	0.168	2.610	2.753	9.544	11.411	23.905	23.926
0.00220	0.00798	0.01814	0.01918	0.29738	0.31375	1.08758	1.30033	2.72409	2.72643
6.389E-05	6.024E-05	4.576E-05	4.078E-05	3.869E-05	3.092E-05	2.686E-05	1.903E-05	1.871E-05	1.815E-05
43.375	47.314	52.587	52.772	67.954	68.138	87.054	87.998	88.183	91.650
4.94273	5.39160	5.99243	6.01347	7.74349	7.76453	9.92005	10.02759	10.04863	10.44373
1.142E-05	8.732E-06	7.714E-06	5.239E-06	4.152E-06	3.540E-06	1.937E-06	1.162E-06	7.854E-07	
93.291	94.686	95.097	96.923	97.415	97.846	99.426	99.938	100.000	
10.63076	10.78974	10.83649	11.04456	11.10067	11.14977	11.32978	11.38823	11.39524	

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED

CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 1.086
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 4.939
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 5.388
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 7.740
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 9.917

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
15	1	-6.51806	-11.89504	-1.31622
15	2	-8.87417	-11.66752	-1.21708

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 15   3      -9.65837 -11.94803  -1.38701
 15   4      -9.71722 -13.55345  -2.38518
 15   5     -10.15982 -13.96383  -2.67361
 15   6     -10.52476      NUMXQ(K)=  6
    3.788E-04              0.114              1.000
    2.401E-04              0.342              3.000
    1.909E-04              0.570              5.000
    1.370E-04              1.140             10.000
    1.129E-04              1.709             15.000
    9.769E-05              2.279             20.000
    8.694E-05              2.849             25.000
    7.878E-05              3.419             30.000
    7.230E-05              3.988             35.000
    6.698E-05              4.558             40.000
    6.233E-05              5.128             45.000
    5.643E-05              5.698             50.000
    5.033E-05              6.267             55.000
    4.524E-05              6.837             60.000
    4.094E-05              7.407             65.000
    3.708E-05              7.977             70.000
    3.355E-05              8.546             75.000
    3.050E-05              9.116             80.000
    2.785E-05              9.686             85.000

    2.026E-04              0.5                4.39

ANNUAL AVERAGE =   5.54E-06

K= 15     FIVEXQ(K)= 2.026E-04     FIVEPR(K)= 4.388
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE SSE SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 10.0 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.6	0.84	823.	0.	0.	157.1	310.1	157.1	4.187E-06	4.152E-06	4.152E-06
A	3.3	4.22	823.	0.	0.	157.1	310.1	157.1	1.954E-06	1.937E-06	1.937E-06
A	5.6	1.88	823.	0.	0.	157.1	310.1	157.1	1.172E-06	1.162E-06	1.162E-06
A	8.2	0.02	823.	0.	0.	157.1	310.1	157.1	7.921E-07	7.854E-07	7.854E-07
B	1.6	0.79	823.	0.	0.	118.1	88.8	118.1	1.945E-05	1.871E-05	1.871E-05
B	3.3	3.47	823.	0.	0.	118.1	88.8	118.1	9.075E-06	8.732E-06	8.732E-06
B	5.6	3.51	823.	0.	0.	118.1	88.8	118.1	5.445E-06	5.239E-06	5.239E-06
B	8.2	0.19	823.	0.	0.	118.1	88.8	118.1	3.679E-06	3.540E-06	3.540E-06
C	1.6	0.69	823.	0.	0.	89.7	51.2	89.7	4.443E-05	4.078E-05	4.078E-05
C	3.3	2.61	823.	0.	0.	89.7	51.2	89.7	2.073E-05	1.903E-05	1.903E-05
C	5.6	2.61	823.	0.	0.	89.7	51.2	89.7	1.244E-05	1.142E-05	1.142E-05
C	8.2	0.33	823.	0.	0.	89.7	51.2	89.7	8.406E-06	7.714E-06	7.714E-06
D	0.2	0.01	823.	0.	0.	63.2	27.1	124.7	4.217E-04	6.716E-04	4.217E-04
D	1.6	4.97	823.	0.	0.	63.2	27.1	124.7	6.024E-05	9.594E-05	6.024E-05
D	3.3	19.27	823.	0.	0.	63.2	27.1	90.6	3.869E-05	4.477E-05	3.869E-05
D	5.6	16.55	823.	0.	0.	63.2	27.1	66.1	3.183E-05	2.686E-05	2.686E-05
D	8.2	2.76	823.	0.	0.	63.2	27.1	63.2	2.250E-05	1.815E-05	1.815E-05
D	24.5	0.06	823.	0.	0.	63.2	27.1	63.2	7.570E-06	6.105E-06	6.105E-06
E	0.2	0.06	823.	0.	0.	44.9	18.7	132.5	5.778E-04	1.144E-03	5.778E-04
E	1.6	8.92	823.	0.	0.	44.9	18.7	132.5	8.255E-05	1.634E-04	8.255E-05
E	3.3	15.90	823.	0.	0.	44.9	18.7	79.9	6.389E-05	7.627E-05	6.389E-05
E	5.6	4.41	823.	0.	0.	44.9	18.7	48.4	6.329E-05	4.576E-05	4.576E-05
E	8.2	0.21	823.	0.	0.	44.9	18.7	44.9	4.606E-05	3.092E-05	3.092E-05
E	10.7	0.02	823.	0.	0.	44.9	18.7	44.9	3.551E-05	2.383E-05	2.383E-05
E	24.5	0.13	823.	0.	0.	44.9	18.7	44.9	1.549E-05	1.040E-05	1.040E-05
F	0.2	0.03	823.	0.	0.	31.0	12.0	121.7	9.797E-04	1.827E-03	9.797E-04
F	1.6	3.39	823.	0.	0.	31.0	12.0	121.7	1.400E-04	2.609E-04	1.400E-04
F	3.3	0.79	823.	0.	0.	31.0	12.0	64.2	1.238E-04	1.218E-04	1.218E-04
F	5.6	0.04	823.	0.	0.	31.0	12.0	34.1	1.400E-04	7.306E-05	7.306E-05
G	0.2	0.01	823.	0.	0.	21.4	7.7	125.7	1.477E-03	2.891E-03	1.477E-03
G	1.6	1.21	823.	0.	0.	21.4	7.7	125.7	2.109E-04	4.129E-04	2.109E-04
G	3.3	0.06	823.	0.	0.	21.4	7.7	54.9	2.255E-04	1.927E-04	1.927E-04
G	5.6	0.02	823.	0.	0.	21.4	7.7	24.2	3.073E-04	1.156E-04	1.156E-04

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

SSE SECTOR BOUNDARY DISTANCE = 823.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.477E-03	9.797E-04	5.778E-04	4.217E-04	2.109E-04	1.927E-04	1.400E-04	1.218E-04	1.156E-04	8.255E-05
0.010	0.035	0.099	0.110	1.322	1.385	4.770	5.564	5.585	14.508
0.00107	0.00390	0.01102	0.01231	0.14790	0.15492	0.53365	0.62249	0.62483	1.62310
7.306E-05	6.389E-05	6.024E-05	4.576E-05	4.078E-05	3.869E-05	3.092E-05	2.686E-05	2.383E-05	1.903E-05
14.550	30.453	35.427	39.836	40.526	59.793	60.002	76.553	76.574	79.186
1.62777	3.40689	3.96331	4.45660	4.53375	6.68926	6.71264	8.56423	8.56657	8.85880
1.871E-05	1.815E-05	1.142E-05	1.040E-05	8.732E-06	7.714E-06	6.105E-06	5.239E-06	4.152E-06	3.540E-06
79.980	82.739	85.351	85.476	88.945	89.280	89.342	92.853	93.689	93.877
8.94764	9.25624	9.54847	9.56250	9.95059	9.98799	9.99501	10.38777	10.48128	10.50232
1.937E-06	1.162E-06	7.854E-07							
98.098	99.979	100.000							
10.97457	11.18498	11.18732							

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 1.621
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 6.685
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 8.561
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(7)= 9.253

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  K   I    XQSAVE(K,I)   XQINT(K,I) XQSLOP(K,I)
 16   1       -6.51806 -12.32618  -1.36693
 16   2       -9.40215 -11.14419  -0.81437
 16   3       -9.65837 -11.21124  -0.85112
 16   4       -9.71722 -12.75544  -1.73083
 16   5      -10.15982 -14.32732  -2.77900
 16   6      -10.52476 -23.00779  -9.12290
 16   7      -10.91680      NUMXQ(K)=  7
    2.895E-04                0.112                1.000
    1.804E-04                0.336                3.000
    1.422E-04                0.559                5.000
    1.007E-04                1.119               10.000
    8.165E-05                1.678               15.000
    7.415E-05                2.237               20.000
    6.860E-05                2.797               25.000
    6.424E-05                3.356               30.000
    6.053E-05                3.916               35.000
    5.458E-05                4.475               40.000
    4.950E-05                5.034               45.000
    4.526E-05                5.594               50.000
    4.166E-05                6.153               55.000
    3.850E-05                6.712               60.000
    3.429E-05                7.272               65.000
    3.074E-05                7.831               70.000
    2.771E-05                8.390               75.000
    2.153E-05                8.950               80.000

    1.500E-04                0.5                  4.47

ANNUAL AVERAGE =    4.28E-06

K= 16      FIVEXQ(K)= 1.500E-04      FIVEPR(K)= 4.469
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE ALL SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 10.0 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.6	2.07	823.	0.	0.	157.1	310.1	157.1	4.187E-06	4.152E-06	4.152E-06
A	3.3	3.09	823.	0.	0.	157.1	310.1	157.1	1.954E-06	1.937E-06	1.937E-06
A	5.6	1.12	823.	0.	0.	157.1	310.1	157.1	1.172E-06	1.162E-06	1.162E-06
A	8.2	0.09	823.	0.	0.	157.1	310.1	157.1	7.921E-07	7.854E-07	7.854E-07
A	24.5	0.01	823.	0.	0.	157.1	310.1	157.1	2.664E-07	2.642E-07	2.642E-07
B	1.6	1.14	823.	0.	0.	118.1	88.8	118.1	1.945E-05	1.871E-05	1.871E-05
B	3.3	2.32	823.	0.	0.	118.1	88.8	118.1	9.075E-06	8.732E-06	8.732E-06
B	5.6	1.66	823.	0.	0.	118.1	88.8	118.1	5.445E-06	5.239E-06	5.239E-06
B	8.2	0.19	823.	0.	0.	118.1	88.8	118.1	3.679E-06	3.540E-06	3.540E-06
B	10.7	0.00	823.	0.	0.	118.1	88.8	118.1	2.836E-06	2.729E-06	2.729E-06
B	24.5	0.00	823.	0.	0.	118.1	88.8	118.1	1.237E-06	1.191E-06	1.191E-06
C	1.6	0.70	823.	0.	0.	89.7	51.2	89.7	4.443E-05	4.078E-05	4.078E-05
C	3.3	1.33	823.	0.	0.	89.7	51.2	89.7	2.073E-05	1.903E-05	1.903E-05
C	5.6	1.13	823.	0.	0.	89.7	51.2	89.7	1.244E-05	1.142E-05	1.142E-05
C	8.2	0.15	823.	0.	0.	89.7	51.2	89.7	8.406E-06	7.714E-06	7.714E-06
C	10.7	0.00	823.	0.	0.	89.7	51.2	89.7	6.479E-06	5.947E-06	5.947E-06
D	0.2	0.02	823.	0.	0.	63.2	27.1	63.2	8.327E-04	6.716E-04	6.716E-04
D	1.6	8.11	823.	0.	0.	63.2	27.1	63.2	1.190E-04	9.594E-05	9.594E-05
D	3.3	12.97	823.	0.	0.	63.2	27.1	63.2	5.551E-05	4.477E-05	4.477E-05
D	5.6	8.31	823.	0.	0.	63.2	27.1	63.2	3.331E-05	2.686E-05	2.686E-05
D	8.2	1.17	823.	0.	0.	63.2	27.1	63.2	2.250E-05	1.815E-05	1.815E-05
D	10.7	0.01	823.	0.	0.	63.2	27.1	63.2	1.735E-05	1.399E-05	1.399E-05
D	24.5	0.01	823.	0.	0.	63.2	27.1	63.2	7.570E-06	6.105E-06	6.105E-06
E	0.2	0.13	823.	0.	0.	44.9	18.7	44.9	1.704E-03	1.144E-03	1.144E-03
E	1.6	17.70	823.	0.	0.	44.9	18.7	44.9	2.435E-04	1.634E-04	1.634E-04
E	3.3	17.17	823.	0.	0.	44.9	18.7	44.9	1.136E-04	7.627E-05	7.627E-05
E	5.6	3.18	823.	0.	0.	44.9	18.7	44.9	6.817E-05	4.576E-05	4.576E-05
E	8.2	0.17	823.	0.	0.	44.9	18.7	44.9	4.606E-05	3.092E-05	3.092E-05
E	10.7	0.00	823.	0.	0.	44.9	18.7	44.9	3.551E-05	2.383E-05	2.383E-05
E	24.5	0.02	823.	0.	0.	44.9	18.7	44.9	1.549E-05	1.040E-05	1.040E-05
F	0.2	0.06	823.	0.	0.	31.0	12.0	31.0	3.845E-03	1.827E-03	1.827E-03
F	1.6	8.14	823.	0.	0.	31.0	12.0	31.0	5.492E-04	2.609E-04	2.609E-04
F	3.3	2.33	823.	0.	0.	31.0	12.0	31.0	2.563E-04	1.218E-04	1.218E-04
F	5.6	0.02	823.	0.	0.	31.0	12.0	31.0	1.538E-04	7.306E-05	7.306E-05

G	0.2	0.04	823.	0.	0.	21.4	7.7	21.4	8.673E-03	2.891E-03	2.891E-03
G	1.6	4.43	823.	0.	0.	21.4	7.7	21.4	1.239E-03	4.129E-04	4.129E-04
G	3.3	1.01	823.	0.	0.	21.4	7.7	21.4	5.782E-04	1.927E-04	1.927E-04
G	5.6	0.00	823.	0.	0.	21.4	7.7	21.4	3.469E-04	1.156E-04	1.156E-04

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:
DIRECTION-INDEPENDENT (S.R.P 2.3.4) MODEL.
MINIMUM BOUNDARY DISTANCE = 823.0 METERS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

2.891E-03	1.827E-03	1.144E-03	6.716E-04	4.129E-04	2.609E-04	1.927E-04	1.634E-04	1.218E-04	1.156E-04
0.035	0.096	0.222	0.241	4.671	12.807	13.817	31.514	33.841	33.845
0.03507	0.09585	0.22210	0.24080	4.67106	12.80684	13.81680	31.51447	33.84065	33.84533
9.594E-05	7.627E-05	7.306E-05	4.576E-05	4.477E-05	4.078E-05	3.092E-05	2.686E-05	2.383E-05	1.903E-05
41.953	59.127	59.146	62.328	75.293	75.995	76.165	84.472	84.477	85.807
41.95306	59.12704	59.14574	62.32758	75.29340	75.99477	76.16543	84.47188	84.47655	85.80680
1.871E-05	1.815E-05	1.399E-05	1.142E-05	1.040E-05	8.732E-06	7.714E-06	6.105E-06	5.947E-06	5.239E-06
86.948	88.121	88.128	89.260	89.276	91.595	91.745	91.757	91.759	93.424
86.94768	88.12128	88.12830	89.25983	89.27619	91.59535	91.74497	91.75666	91.75900	93.42356
4.152E-06	3.540E-06	2.729E-06	1.937E-06	1.191E-06	1.162E-06	7.854E-07	2.642E-07		
95.495	95.689	95.691	98.777	98.780	99.897	99.991	100.000		
95.49491	95.68896	95.69129	98.77728	98.77962	99.89712	99.99063	99.99998		

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

CHI/Q SEC/CUBIC METER	PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED WITH RESPECT TO THE TOTAL TIME	WHEN THE WIND BLOWS INTO THIS SECTOR ONLY
1.012E-03	1.000	1.000
6.517E-04	3.000	3.000
5.162E-04	5.000	5.000
3.605E-04	10.000	10.000
2.829E-04	15.000	15.000
2.333E-04	20.000	20.000
1.978E-04	25.000	25.000
1.705E-04	30.000	30.000
1.475E-04	35.000	35.000

1.280E-04	40.000	40.000
1.117E-04	45.000	45.000
9.762E-05	50.000	50.000
8.535E-05	55.000	55.000
7.427E-05	60.000	60.000
6.360E-05	65.000	65.000
5.400E-05	70.000	70.000
4.526E-05	75.000	75.000
3.507E-05	80.000	80.000
2.549E-05	85.000	85.000
1.604E-05	90.000	90.000
5.162E-04	5.0	5.00

K= 17 FIVEXQ(K)= 5.162E-04 FIVEPR(K)= 5.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

SITE EXCLUSION BOUNDARY CALCULATIONS:

FIVE PERCENT OVERALL SITE LIMIT
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

1.477E-03	9.797E-04	5.778E-04	4.217E-04	2.109E-04	1.927E-04	1.400E-04	1.218E-04	1.156E-04	8.255E-05
0.035	0.096	0.222	0.241	4.671	5.681	13.817	16.143	16.148	33.845
0.03507	0.09585	0.22210	0.24080	4.67106	5.68102	13.81680	16.14298	16.14766	33.84532
7.306E-05	6.389E-05	6.024E-05	4.576E-05	4.078E-05	3.869E-05	3.092E-05	2.686E-05	2.383E-05	1.903E-05
33.864	51.038	59.146	62.328	63.029	75.995	76.165	84.472	84.477	85.807
33.86403	51.03802	59.14575	62.32759	63.02894	75.99476	76.16543	84.47186	84.47653	85.80677
1.871E-05	1.815E-05	1.399E-05	1.142E-05	1.040E-05	8.732E-06	7.714E-06	6.105E-06	5.947E-06	5.239E-06
86.948	88.121	88.128	89.260	89.276	91.595	91.745	91.757	91.759	93.424
86.94765	88.12126	88.12827	89.25978	89.27615	91.59528	91.74490	91.75658	91.75892	93.42348
4.152E-06	3.540E-06	2.729E-06	1.937E-06	1.191E-06	1.162E-06	7.854E-07	2.642E-07		
95.495	95.689	95.691	98.777	98.780	99.897	99.991	100.000		
95.49483	95.68887	95.69120	98.77720	98.77953	99.89703	99.99052	99.99987		

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED
CHI/Q WITH RESPECT TO WHEN THE WIND BLOWS
SEC/CUBIC METER THE TOTAL TIME INTO THIS SECTOR ONLY

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
18	1	-6.51806	-9.80595	-0.97009
18	2	-9.40215	-9.60481	-0.48686
18	3	-9.71722	-9.50206	-0.93185
18	4	-10.15982	-9.32390	-1.18425
18	5	-10.52476	-8.14652	-2.34535
18	6	-10.91680	-9.46307	-1.23075
18	7	-14.05704	NUMXQ(K)= 7	

5.268E-04	1.000	1.000
3.419E-04	3.000	3.000
2.719E-04	5.000	5.000
1.911E-04	10.000	10.000
1.507E-04	15.000	15.000
1.247E-04	20.000	20.000
1.060E-04	25.000	25.000
9.164E-05	30.000	30.000
8.129E-05	35.000	35.000
7.624E-05	40.000	40.000
7.165E-05	45.000	45.000
6.740E-05	50.000	50.000
6.341E-05	55.000	55.000
5.901E-05	60.000	60.000
5.219E-05	65.000	65.000
4.584E-05	70.000	70.000
3.985E-05	75.000	75.000
3.295E-05	80.000	80.000
2.549E-05	85.000	85.000
1.604E-05	90.000	90.000
2.719E-04	5.0	5.00

K= 18 FIVEXQ(K)= 2.719E-04 FIVEPR(K)= 5.000

K	HIGHPR	PR	GRNDVT(K)
1	-3.19248	0.07054	7.16050
2	-1.89452	2.90780	3.52922
3	-3.30045	0.04827	3.23970
4	-3.26009	0.05569	2.96101
5	-3.11367	0.09239	3.59423
6	-3.13272	0.08661	3.74028
7	-3.22275	0.06349	4.91057
8	-3.21567	0.06508	6.63198
9	-3.18699	0.07189	8.27142
10	-3.19007	0.07113	4.16751
11	-2.92509	0.17219	4.48639
12	-2.57624	0.49942	6.76889
13	-2.67575	0.37282	8.24935
14	-2.83305	0.23054	9.70638
15	-2.98351	0.14248	11.39525
16	-3.18823	0.07158	11.18732

K	HOURS(K)	TOTHRS
1	6.17897	6.17897
2	254.72330	260.90230
3	4.22826	265.13060
4	4.87885	270.00940
5	8.09364	278.10300
6	7.58665	285.68970
7	5.56180	291.25150
8	5.70069	296.95210
9	6.29749	303.24960

10	6.23066	309.48030
11	15.08348	324.56380
12	43.74879	368.31260
13	32.65860	400.97120
14	20.19520	421.16640
15	12.48168	433.64800
16	6.27034	439.91840

K	FIVEXQ	SVANN	SLTIME	TIMINT	I	TIME	XQT
1	1.596E-04	3.660E-06	-0.4502	-8.4310			
					1	8.0	-9.36720
					2	16.0	-9.67927
					3	72.0	-10.35644
					4	624.0	-11.32868
2	1.296E-04	2.400E-06	-0.4757	-8.6213			
					1	8.0	-9.61057
					2	16.0	-9.94032
					3	72.0	-10.65584
					4	624.0	-11.68316
3	1.335E-04	2.444E-06	-0.4771	-8.5909			
					1	8.0	-9.58300
					2	16.0	-9.91369
					3	72.0	-10.63127
					4	624.0	-11.66153
4	1.318E-04	2.308E-06	-0.4824	-8.5997			
					1	8.0	-9.60279
					2	16.0	-9.93716
					3	72.0	-10.66271
					4	624.0	-11.70443
5	1.638E-04	3.105E-06	-0.4729	-8.3888			
					1	8.0	-9.37231
					2	16.0	-9.70014
					3	72.0	-10.41148
					4	624.0	-11.43281
6	1.620E-04	2.863E-06	-0.4813	-8.3945			
					1	8.0	-9.39530
					2	16.0	-9.72889
					3	72.0	-10.45275
					4	624.0	-11.49202
7	1.499E-04	2.932E-06	-0.4692	-8.4806			
					1	8.0	-9.45616
					2	16.0	-9.78136
					3	72.0	-10.48702
					4	624.0	-11.50018
8	1.601E-04	3.492E-06	-0.4562	-8.4235			
					1	8.0	-9.37217
					2	16.0	-9.68838
					3	72.0	-10.37454
					4	624.0	-11.35969
9	1.662E-04	3.785E-06	-0.4511	-8.3896			
					1	8.0	-9.32757
					2	16.0	-9.64022
					3	72.0	-10.31864

				4	624.0	-11.29270
10	1.483E-04	2.548E-06	-0.4846	-8.4806		
				1	8.0	-9.48837
				2	16.0	-9.82430
				3	72.0	-10.55325
				4	624.0	-11.59984
11	2.170E-04	3.470E-06	-0.4932	-8.0936		
				1	8.0	-9.11931
				2	16.0	-9.46119
				3	72.0	-10.20306
				4	624.0	-11.26821
12	3.463E-04	6.487E-06	-0.4744	-7.6393		
				1	8.0	-8.62570
				2	16.0	-8.95451
				3	72.0	-9.66800
				4	624.0	-10.69239
13	3.039E-04	6.501E-06	-0.4585	-7.7810		
				1	8.0	-8.73448
				2	16.0	-9.05229
				3	72.0	-9.74193
				4	624.0	-10.73208
14	2.463E-04	5.732E-06	-0.4485	-7.9981		
				1	8.0	-8.93071
				2	16.0	-9.24157
				3	72.0	-9.91610
				4	624.0	-10.88456
15	2.026E-04	5.538E-06	-0.4293	-8.2066		
				1	8.0	-9.09929
				2	16.0	-9.39686
				3	72.0	-10.04255
				4	624.0	-10.96962
16	1.500E-04	4.285E-06	-0.4241	-8.5107		
				1	8.0	-9.39252
				2	16.0	-9.68646
				3	72.0	-10.32428
				4	624.0	-11.24004
17	5.162E-04	6.501E-06	-0.5217	-7.2074		
				1	8.0	-8.29226
				2	16.0	-8.65387
				3	72.0	-9.43855
				4	624.0	-10.56514
18	2.719E-04	6.501E-06	-0.4453	-7.9013		
				1	8.0	-8.82721
				2	16.0	-9.13584
				3	72.0	-9.80555
				4	624.0	-10.76709

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
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TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

RELATIVE CONCENTRATION (X/Q) VALUES (SEC/CUBIC METER)
VERSUS
AVERAGING TIME

DOWNWIND SECTOR	DISTANCE (METERS)	0-2 HOURS	0-8 HOURS	8-24 HOURS	1-4 DAYS	4-30 DAYS	ANNUAL AVERAGE	HOURS PER YEAR MAX 0-2 HR X/Q IS EXCEEDED IN SECTOR	DOWNWIND SECTOR
S	823.	1.60E-04	8.55E-05	6.26E-05	3.18E-05	1.20E-05	3.66E-06	6.2	S
SSW	823.	1.30E-04	6.70E-05	4.82E-05	2.36E-05	8.43E-06	2.40E-06	254.7	SSW
SW	823.	1.33E-04	6.89E-05	4.95E-05	2.41E-05	8.62E-06	2.44E-06	4.2	SW
WSW	823.	1.32E-04	6.75E-05	4.83E-05	2.34E-05	8.26E-06	2.31E-06	4.9	WSW
W	823.	1.64E-04	8.50E-05	6.13E-05	3.01E-05	1.08E-05	3.11E-06	8.1	W
WNW	823.	1.62E-04	8.31E-05	5.95E-05	2.89E-05	1.02E-05	2.86E-06	7.6	WNW
NW	823.	1.50E-04	7.82E-05	5.65E-05	2.79E-05	1.01E-05	2.93E-06	5.6	NW
NNW	823.	1.60E-04	8.51E-05	6.20E-05	3.12E-05	1.17E-05	3.49E-06	5.7	NNW
N	823.	1.66E-04	8.89E-05	6.51E-05	3.30E-05	1.25E-05	3.79E-06	6.3	N
NNE	823.	1.48E-04	7.57E-05	5.41E-05	2.61E-05	9.17E-06	2.55E-06	6.2	NNE
NE	823.	2.17E-04	1.10E-04	7.78E-05	3.71E-05	1.28E-05	3.47E-06	15.1	NE
ENE	823.	3.46E-04	1.79E-04	1.29E-04	6.33E-05	2.27E-05	6.49E-06	43.7	ENE
E	823.	3.04E-04	1.61E-04	1.17E-04	5.88E-05	2.18E-05	6.50E-06	32.7	E
ESE	823.	2.46E-04	1.32E-04	9.69E-05	4.94E-05	1.87E-05	5.73E-06	20.2	ESE
SE	823.	2.03E-04	1.12E-04	8.30E-05	4.35E-05	1.72E-05	5.54E-06	12.5	SE
SSE	823.	1.50E-04	8.33E-05	6.21E-05	3.28E-05	1.31E-05	4.28E-06	6.3	SSE
MAX X/Q		3.46E-04				TOTAL HOURS AROUND SITE:		439.9	
SRP 2.3.4	823.	5.16E-04	2.50E-04	1.74E-04	7.96E-05	2.58E-05	6.50E-06		
SITE LIMIT		2.72E-04	1.47E-04	1.08E-04	5.51E-05	2.11E-05	6.50E-06		

0.5 PERCENT X/Q TO AN INDIVIDUAL IS LIMITING.

NOTE: VALUES ON THIS PAGE ARE APPROXIMATIONS ONLY.
CHECK THE REASONABLENESS OF THE ENVELOPES
COMPUTED FOR THE 0-2 HOUR VALUES. FOR ANY
FAULTY ENVELOPES, ADJUST THE ABOVE VALUES.

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
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SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
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PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE S SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 10.0 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.6	2.87	7300.	0.	0.	1000.0	1000.0	1000.0	2.039E-07	2.039E-07	2.039E-07
A	3.3	5.49	7300.	0.	0.	1000.0	1000.0	1000.0	9.517E-08	9.514E-08	9.514E-08
A	5.6	0.91	7300.	0.	0.	1000.0	1000.0	1000.0	5.710E-08	5.708E-08	5.708E-08
A	8.2	0.03	7300.	0.	0.	1000.0	1000.0	1000.0	3.858E-08	3.857E-08	3.857E-08
B	1.6	1.96	7300.	0.	0.	848.1	962.0	848.1	2.500E-07	2.498E-07	2.498E-07
B	3.3	4.70	7300.	0.	0.	848.1	962.0	848.1	1.166E-07	1.166E-07	1.166E-07
B	5.6	1.24	7300.	0.	0.	848.1	962.0	848.1	6.999E-08	6.995E-08	6.995E-08
B	8.2	0.07	7300.	0.	0.	848.1	962.0	848.1	4.729E-08	4.727E-08	4.727E-08
C	1.6	1.04	7300.	0.	0.	644.0	373.7	644.0	8.473E-07	8.459E-07	8.459E-07
C	3.3	1.89	7300.	0.	0.	644.0	373.7	644.0	3.954E-07	3.947E-07	3.947E-07
C	5.6	0.52	7300.	0.	0.	644.0	373.7	644.0	2.372E-07	2.368E-07	2.368E-07
C	8.2	0.03	7300.	0.	0.	644.0	373.7	644.0	1.603E-07	1.600E-07	1.600E-07
D	0.2	0.03	7300.	0.	0.	453.5	111.1	515.1	2.494E-05	2.810E-05	2.494E-05
D	1.6	12.70	7300.	0.	0.	453.5	111.1	515.1	3.563E-06	4.014E-06	3.563E-06
D	3.3	18.64	7300.	0.	0.	453.5	111.1	481.0	1.781E-06	1.873E-06	1.781E-06
D	5.6	7.18	7300.	0.	0.	453.5	111.1	456.4	1.126E-06	1.124E-06	1.124E-06
D	8.2	0.75	7300.	0.	0.	453.5	111.1	453.5	7.657E-07	7.595E-07	7.595E-07
D	24.5	0.07	7300.	0.	0.	453.5	111.1	453.5	2.575E-07	2.555E-07	2.555E-07
E	0.2	0.12	7300.	0.	0.	322.5	67.5	410.0	5.173E-05	6.456E-05	5.173E-05
E	1.6	16.88	7300.	0.	0.	322.5	67.5	410.0	7.390E-06	9.223E-06	7.390E-06
E	3.3	14.63	7300.	0.	0.	322.5	67.5	357.4	3.956E-06	4.304E-06	3.956E-06
E	5.6	2.38	7300.	0.	0.	322.5	67.5	325.9	2.603E-06	2.582E-06	2.582E-06
E	8.2	0.13	7300.	0.	0.	322.5	67.5	322.5	1.778E-06	1.745E-06	1.745E-06
E	24.5	0.03	7300.	0.	0.	322.5	67.5	322.5	5.980E-07	5.869E-07	5.869E-07
F	0.2	0.03	7300.	0.	0.	222.6	40.9	313.3	1.117E-04	1.504E-04	1.117E-04
F	1.6	4.24	7300.	0.	0.	222.6	40.9	313.3	1.595E-05	2.148E-05	1.595E-05
F	3.3	0.23	7300.	0.	0.	222.6	40.9	255.8	9.119E-06	1.002E-05	9.119E-06
G	0.2	0.01	7300.	0.	0.	153.6	24.8	257.9	2.237E-04	3.389E-04	2.237E-04
G	1.6	1.14	7300.	0.	0.	153.6	24.8	257.9	3.195E-05	4.842E-05	3.195E-05
G	3.3	0.03	7300.	0.	0.	153.6	24.8	187.1	2.056E-05	2.260E-05	2.056E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

S SECTOR BOUNDARY DISTANCE = 7300.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

2.237E-04	1.117E-04	5.173E-05	3.195E-05	2.494E-05	2.056E-05	1.595E-05	9.119E-06	7.390E-06	3.956E-06
0.009	0.041	0.161	1.304	1.333	1.366	5.610	5.839	22.719	37.346
0.00065	0.00292	0.01154	0.09337	0.09546	0.09780	0.40172	0.41809	1.62677	2.67413
3.563E-06	2.582E-06	1.781E-06	1.745E-06	1.124E-06	8.459E-07	7.595E-07	5.869E-07	3.947E-07	2.555E-07
50.046	52.430	71.073	71.203	78.386	79.431	80.182	80.214	82.108	82.173
3.58356	3.75423	5.08915	5.09850	5.61283	5.68765	5.74142	5.74375	5.87935	5.88403
2.498E-07	2.368E-07	2.039E-07	1.600E-07	1.166E-07	9.514E-08	6.995E-08	5.708E-08	4.727E-08	3.857E-08
84.132	84.655	87.528	87.561	92.262	97.747	98.988	99.902	99.967	100.000
6.02430	6.06171	6.26744	6.26977	6.60643	6.99919	7.08803	7.15349	7.15817	7.16050

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 1.625
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 3.580
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 5.085
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 5.609
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 6.264
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(7)= 6.995

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
1	1	-8.40538	-15.09581	-1.53422

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  1  2     -11.81533 -16.44928  -2.16721
  1  3     -12.54483 -20.11912  -4.20419
  1  4     -13.23843 -28.87754  -9.55570
  1  5     -13.69861 -62.60479 -30.78827
  1  6     -15.40582 -35.94715 -13.39928
  1  7     -16.16796     NUMXQ(K)=  7
    3.702E-05              0.072              1.000
    2.223E-05              0.215              3.000
    1.722E-05              0.358              5.000
    1.192E-05              0.716             10.000
    9.470E-06              1.074             15.000
    7.987E-06              1.432             20.000
    6.797E-06              1.790             25.000
    5.776E-06              2.148             30.000
    5.015E-06              2.506             35.000
    4.425E-06              2.864             40.000
    3.953E-06              3.222             45.000
    3.567E-06              3.580             50.000
    2.970E-06              3.938             55.000
    2.504E-06              4.296             60.000
    2.134E-06              4.654             65.000
    1.837E-06              5.012             70.000
    1.385E-06              5.370             75.000
    8.224E-07              5.728             80.000
    3.221E-07              6.086             85.000
    1.685E-07              6.444             90.000

    1.447E-05              0.5                6.98

ANNUAL AVERAGE =   1.50E-07

K=  1     FIVEXQ(K)= 1.447E-05     FIVEPR(K)= 6.983
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE SSW SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 10.0 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.6	8.88	7300.	0.	0.	1000.0	1000.0	1000.0	2.039E-07	2.039E-07	2.039E-07
A	3.3	5.37	7300.	0.	0.	1000.0	1000.0	1000.0	9.517E-08	9.514E-08	9.514E-08
A	5.6	0.07	7300.	0.	0.	1000.0	1000.0	1000.0	5.710E-08	5.708E-08	5.708E-08
A	24.5	0.07	7300.	0.	0.	1000.0	1000.0	1000.0	1.298E-08	1.297E-08	1.297E-08
B	1.6	3.71	7300.	0.	0.	848.1	962.0	848.1	2.500E-07	2.498E-07	2.498E-07
B	3.3	2.65	7300.	0.	0.	848.1	962.0	848.1	1.166E-07	1.166E-07	1.166E-07
B	5.6	0.13	7300.	0.	0.	848.1	962.0	848.1	6.999E-08	6.995E-08	6.995E-08
C	1.6	3.05	7300.	0.	0.	644.0	373.7	644.0	8.473E-07	8.459E-07	8.459E-07
C	3.3	0.66	7300.	0.	0.	644.0	373.7	644.0	3.954E-07	3.947E-07	3.947E-07
C	5.6	0.07	7300.	0.	0.	644.0	373.7	644.0	2.372E-07	2.368E-07	2.368E-07
D	0.2	0.05	7300.	0.	0.	453.5	111.1	515.1	2.494E-05	2.810E-05	2.494E-05
D	1.6	22.39	7300.	0.	0.	453.5	111.1	515.1	3.563E-06	4.014E-06	3.563E-06
D	3.3	10.60	7300.	0.	0.	453.5	111.1	481.0	1.781E-06	1.873E-06	1.781E-06
D	5.6	0.53	7300.	0.	0.	453.5	111.1	456.4	1.126E-06	1.124E-06	1.124E-06
E	0.2	0.20	7300.	0.	0.	322.5	67.5	410.0	5.173E-05	6.456E-05	5.173E-05
E	1.6	27.56	7300.	0.	0.	322.5	67.5	410.0	7.390E-06	9.223E-06	7.390E-06
E	3.3	6.09	7300.	0.	0.	322.5	67.5	357.4	3.956E-06	4.304E-06	3.956E-06
E	5.6	0.26	7300.	0.	0.	322.5	67.5	325.9	2.603E-06	2.582E-06	2.582E-06
F	0.2	0.04	7300.	0.	0.	222.6	40.9	313.3	1.117E-04	1.504E-04	1.117E-04
F	1.6	5.37	7300.	0.	0.	222.6	40.9	313.3	1.595E-05	2.148E-05	1.595E-05
G	0.2	0.02	7300.	0.	0.	153.6	24.8	257.9	2.237E-04	3.389E-04	2.237E-04
G	1.6	1.99	7300.	0.	0.	153.6	24.8	257.9	3.195E-05	4.842E-05	3.195E-05
G	3.3	0.26	7300.	0.	0.	153.6	24.8	187.1	2.056E-05	2.260E-05	2.056E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

SSW SECTOR BOUNDARY DISTANCE = 7300.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

2.237E-04	1.117E-04	5.173E-05	3.195E-05	2.494E-05	2.056E-05	1.595E-05	7.390E-06	3.956E-06	3.563E-06
0.016	0.056	0.252	2.240	2.291	2.556	7.922	35.479	41.574	63.964
0.00056	0.00197	0.00891	0.07904	0.08087	0.09022	0.27959	1.25214	1.46722	2.25742
2.582E-06	1.781E-06	1.124E-06	8.459E-07	3.947E-07	2.498E-07	2.368E-07	2.039E-07	1.166E-07	9.514E-08
64.229	74.828	75.358	78.405	79.067	82.777	82.843	91.720	94.369	99.735
2.26677	2.64083	2.65954	2.76708	2.79046	2.92138	2.92371	3.23699	3.33050	3.51987
6.995E-08	5.708E-08	1.297E-08							
99.868	99.934	100.000							
3.52455	3.52689	3.52922							

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED

CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 0.079
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 1.251
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 2.255
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 2.638
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 3.517

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
2	1	-8.40538	-15.33090	-1.57598
2	2	-10.35129	-15.38766	-1.59395

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  2  3     -11.81533 -18.69992  -3.07185
  2  4     -12.54483 -33.33123 -10.37398
  2  5     -13.23843 -57.88254 -23.04991
  2  6     -16.16796     NUMXQ(K)=  6
    4.575E-05              0.035              1.000
    2.785E-05              0.106              3.000
    2.173E-05              0.176              5.000
    1.522E-05              0.353             10.000
    1.222E-05              0.529             15.000
    1.039E-05              0.706             20.000
    9.124E-06              0.882             25.000
    8.185E-06              1.059             30.000
    7.452E-06              1.235             35.000
    6.402E-06              1.412             40.000
    5.548E-06              1.588             45.000
    4.870E-06              1.765             50.000
    4.322E-06              1.941             55.000
    3.869E-06              2.118             60.000
    3.321E-06              2.294             65.000
    2.397E-06              2.470             70.000
    1.740E-06              2.647             75.000
    9.124E-07              2.823             80.000
    4.943E-07              3.000             85.000
    2.757E-07              3.176             90.000

    1.261E-05              0.5               14.17

ANNUAL AVERAGE =   9.86E-08

K=  2     FIVEXQ(K)= 1.261E-05     FIVEPR(K)=14.167
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE SW SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 10.0 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.6	10.17	7300.	0.	0.	1000.0	1000.0	1000.0	2.039E-07	2.039E-07	2.039E-07
A	3.3	2.24	7300.	0.	0.	1000.0	1000.0	1000.0	9.517E-08	9.514E-08	9.514E-08
A	5.6	0.07	7300.	0.	0.	1000.0	1000.0	1000.0	5.710E-08	5.708E-08	5.708E-08
A	24.5	0.07	7300.	0.	0.	1000.0	1000.0	1000.0	1.298E-08	1.297E-08	1.297E-08
B	1.6	4.62	7300.	0.	0.	848.1	962.0	848.1	2.500E-07	2.498E-07	2.498E-07
B	3.3	0.79	7300.	0.	0.	848.1	962.0	848.1	1.166E-07	1.166E-07	1.166E-07
C	1.6	1.88	7300.	0.	0.	644.0	373.7	644.0	8.473E-07	8.459E-07	8.459E-07
C	3.3	0.22	7300.	0.	0.	644.0	373.7	644.0	3.954E-07	3.947E-07	3.947E-07
D	0.2	0.07	7300.	0.	0.	453.5	111.1	515.1	2.494E-05	2.810E-05	2.494E-05
D	1.6	31.54	7300.	0.	0.	453.5	111.1	515.1	3.563E-06	4.014E-06	3.563E-06
D	3.3	4.76	7300.	0.	0.	453.5	111.1	481.0	1.781E-06	1.873E-06	1.781E-06
E	0.2	0.21	7300.	0.	0.	322.5	67.5	410.0	5.173E-05	6.456E-05	5.173E-05
E	1.6	29.95	7300.	0.	0.	322.5	67.5	410.0	7.390E-06	9.223E-06	7.390E-06
E	3.3	5.48	7300.	0.	0.	322.5	67.5	357.4	3.956E-06	4.304E-06	3.956E-06
E	5.6	0.07	7300.	0.	0.	322.5	67.5	325.9	2.603E-06	2.582E-06	2.582E-06
F	0.2	0.04	7300.	0.	0.	222.6	40.9	313.3	1.117E-04	1.504E-04	1.117E-04
F	1.6	5.34	7300.	0.	0.	222.6	40.9	313.3	1.595E-05	2.148E-05	1.595E-05
F	3.3	0.36	7300.	0.	0.	222.6	40.9	255.8	9.119E-06	1.002E-05	9.119E-06
G	0.2	0.02	7300.	0.	0.	153.6	24.8	257.9	2.237E-04	3.389E-04	2.237E-04
G	1.6	2.09	7300.	0.	0.	153.6	24.8	257.9	3.195E-05	4.842E-05	3.195E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

SW SECTOR BOUNDARY DISTANCE = 7300.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

2.237E-04	1.117E-04	5.173E-05	3.195E-05	2.494E-05	1.595E-05	9.119E-06	7.390E-06	3.956E-06	3.563E-06
0.017	0.056	0.270	2.363	2.436	7.776	8.136	38.084	43.568	75.104
0.00054	0.00183	0.00875	0.07655	0.07891	0.25191	0.26360	1.23381	1.41149	2.43314
2.582E-06	1.781E-06	8.459E-07	3.947E-07	2.498E-07	2.039E-07	1.166E-07	9.514E-08	5.708E-08	1.297E-08
75.176	79.939	81.815	82.031	86.650	96.825	97.619	99.856	99.928	100.000
2.43548	2.58978	2.65056	2.65757	2.80720	3.13684	3.16255	3.23503	3.23737	3.23970

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED
CHI/Q WITH RESPECT TO WHEN THE WIND BLOWS
SEC/CUBIC METER THE TOTAL TIME INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 0.076
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 1.232
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 2.431
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 3.134

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
3	1	-8.40538	-15.35362	-1.57851
3	2	-10.35129	-15.38259	-1.58765
3	3	-11.81533	-17.77768	-2.65362
3	4	-12.54483	-63.60229	-25.89164
3	5	-15.40582	NUMXQ(K)= 5	
4.681E-05		0.032		1.000
2.859E-05		0.097		3.000

2.237E-05	0.162	5.000
1.573E-05	0.324	10.000
1.266E-05	0.486	15.000
1.079E-05	0.648	20.000
9.497E-06	0.810	25.000
8.533E-06	0.972	30.000
7.780E-06	1.134	35.000
7.027E-06	1.296	40.000
6.218E-06	1.458	45.000
5.564E-06	1.620	50.000
5.025E-06	1.782	55.000
4.572E-06	1.944	60.000
4.188E-06	2.106	65.000
3.857E-06	2.268	70.000
3.569E-06	2.430	75.000
1.769E-06	2.592	80.000
8.974E-07	2.754	85.000
4.702E-07	2.916	90.000
1.247E-05	0.5	15.43

ANNUAL AVERAGE = 1.00E-07

K= 3 FIVEXQ(K)= 1.247E-05 FIVEPR(K)=15.434

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE WSW SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 10.0 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.6	11.29	7300.	0.	0.	1000.0	1000.0	1000.0	2.039E-07	2.039E-07	2.039E-07
A	3.3	2.21	7300.	0.	0.	1000.0	1000.0	1000.0	9.517E-08	9.514E-08	9.514E-08
B	1.6	5.29	7300.	0.	0.	848.1	962.0	848.1	2.500E-07	2.498E-07	2.498E-07
B	3.3	1.18	7300.	0.	0.	848.1	962.0	848.1	1.166E-07	1.166E-07	1.166E-07
C	1.6	3.79	7300.	0.	0.	644.0	373.7	644.0	8.473E-07	8.459E-07	8.459E-07
C	3.3	0.63	7300.	0.	0.	644.0	373.7	644.0	3.954E-07	3.947E-07	3.947E-07
D	0.2	0.06	7300.	0.	0.	453.5	111.1	515.1	2.494E-05	2.810E-05	2.494E-05
D	1.6	25.11	7300.	0.	0.	453.5	111.1	515.1	3.563E-06	4.014E-06	3.563E-06
D	3.3	2.76	7300.	0.	0.	453.5	111.1	481.0	1.781E-06	1.873E-06	1.781E-06
E	0.2	0.22	7300.	0.	0.	322.5	67.5	410.0	5.173E-05	6.456E-05	5.173E-05
E	1.6	30.24	7300.	0.	0.	322.5	67.5	410.0	7.390E-06	9.223E-06	7.390E-06
E	3.3	5.84	7300.	0.	0.	322.5	67.5	357.4	3.956E-06	4.304E-06	3.956E-06
F	0.2	0.05	7300.	0.	0.	222.6	40.9	313.3	1.117E-04	1.504E-04	1.117E-04
F	1.6	7.26	7300.	0.	0.	222.6	40.9	313.3	1.595E-05	2.148E-05	1.595E-05
F	3.3	0.16	7300.	0.	0.	222.6	40.9	255.8	9.119E-06	1.002E-05	9.119E-06
G	0.2	0.03	7300.	0.	0.	153.6	24.8	257.9	2.237E-04	3.389E-04	2.237E-04
G	1.6	3.87	7300.	0.	0.	153.6	24.8	257.9	3.195E-05	4.842E-05	3.195E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

WSW SECTOR BOUNDARY DISTANCE = 7300.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

2.237E-04	1.117E-04	5.173E-05	3.195E-05	2.494E-05	1.595E-05	9.119E-06	7.390E-06	3.956E-06	3.563E-06
0.031	0.085	0.301	4.169	4.227	11.491	11.649	41.889	47.732	72.839
0.00091	0.00251	0.00890	0.12346	0.12517	0.34026	0.34493	1.24033	1.41334	2.15678

1.781E-06	8.459E-07	3.947E-07	2.498E-07	2.039E-07	1.166E-07	9.514E-08
75.603	79.393	80.024	85.314	96.605	97.789	100.000
2.23861	2.35082	2.36953	2.52616	2.86048	2.89555	2.96101

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED
CHI/Q WITH RESPECT TO WHEN THE WIND BLOWS
SEC/CUBIC METER THE TOTAL TIME INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 0.123
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 1.239
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 2.155

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
4	1	-8.40538	-15.02958	-1.54531
4	2	-10.35129	-16.01503	-1.87082
4	3	-11.81533	-19.19168	-3.28591
4	4	-12.54483	NUMXQ(K)= 4	

6.002E-05	0.030	1.000
3.718E-05	0.089	3.000
2.881E-05	0.148	5.000
1.910E-05	0.296	10.000

1.482E-05	0.444	15.000
1.230E-05	0.592	20.000
1.060E-05	0.740	25.000
9.356E-06	0.888	30.000
8.401E-06	1.036	35.000
7.640E-06	1.184	40.000
6.746E-06	1.332	45.000
5.889E-06	1.481	50.000
5.198E-06	1.629	55.000
4.632E-06	1.777	60.000
4.161E-06	1.925	65.000
3.763E-06	2.073	70.000
1.374E-05	0.5	16.89

ANNUAL AVERAGE = 9.60E-08

K= 4 FIVEXQ(K)= 1.374E-05 FIVEPR(K)=16.886

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE W SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 10.0 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.6	6.63	7300.	0.	0.	1000.0	1000.0	1000.0	2.039E-07	2.039E-07	2.039E-07
A	3.3	2.86	7300.	0.	0.	1000.0	1000.0	1000.0	9.517E-08	9.514E-08	9.514E-08
A	24.5	0.13	7300.	0.	0.	1000.0	1000.0	1000.0	1.298E-08	1.297E-08	1.297E-08
B	1.6	3.97	7300.	0.	0.	848.1	962.0	848.1	2.500E-07	2.498E-07	2.498E-07
B	3.3	0.78	7300.	0.	0.	848.1	962.0	848.1	1.166E-07	1.166E-07	1.166E-07
B	5.6	0.07	7300.	0.	0.	848.1	962.0	848.1	6.999E-08	6.995E-08	6.995E-08
C	1.6	2.28	7300.	0.	0.	644.0	373.7	644.0	8.473E-07	8.459E-07	8.459E-07
C	3.3	0.59	7300.	0.	0.	644.0	373.7	644.0	3.954E-07	3.947E-07	3.947E-07
C	5.6	0.07	7300.	0.	0.	644.0	373.7	644.0	2.372E-07	2.368E-07	2.368E-07
D	0.2	0.04	7300.	0.	0.	453.5	111.1	515.1	2.494E-05	2.810E-05	2.494E-05
D	1.6	19.25	7300.	0.	0.	453.5	111.1	515.1	3.563E-06	4.014E-06	3.563E-06
D	3.3	4.23	7300.	0.	0.	453.5	111.1	481.0	1.781E-06	1.873E-06	1.781E-06
D	5.6	0.13	7300.	0.	0.	453.5	111.1	456.4	1.126E-06	1.124E-06	1.124E-06
E	0.2	0.24	7300.	0.	0.	322.5	67.5	410.0	5.173E-05	6.456E-05	5.173E-05
E	1.6	33.50	7300.	0.	0.	322.5	67.5	410.0	7.390E-06	9.223E-06	7.390E-06
E	3.3	6.89	7300.	0.	0.	322.5	67.5	357.4	3.956E-06	4.304E-06	3.956E-06
E	5.6	0.39	7300.	0.	0.	322.5	67.5	325.9	2.603E-06	2.582E-06	2.582E-06
F	0.2	0.09	7300.	0.	0.	222.6	40.9	313.3	1.117E-04	1.504E-04	1.117E-04
F	1.6	11.71	7300.	0.	0.	222.6	40.9	313.3	1.595E-05	2.148E-05	1.595E-05
F	3.3	0.20	7300.	0.	0.	222.6	40.9	255.8	9.119E-06	1.002E-05	9.119E-06
G	0.2	0.05	7300.	0.	0.	153.6	24.8	257.9	2.237E-04	3.389E-04	2.237E-04
G	1.6	5.72	7300.	0.	0.	153.6	24.8	257.9	3.195E-05	4.842E-05	3.195E-05
G	3.3	0.20	7300.	0.	0.	153.6	24.8	187.1	2.056E-05	2.260E-05	2.056E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

W SECTOR BOUNDARY DISTANCE = 7300.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

2.237E-04	1.117E-04	5.173E-05	3.195E-05	2.494E-05	2.056E-05	1.595E-05	9.119E-06	7.390E-06	3.956E-06
0.045	0.133	0.372	6.096	6.140	6.335	18.043	18.238	51.737	58.631
0.00163	0.00477	0.01336	0.21909	0.22069	0.22770	0.64852	0.65553	1.85954	2.10735
3.563E-06	2.582E-06	1.781E-06	1.124E-06	8.459E-07	3.947E-07	2.498E-07	2.368E-07	2.039E-07	1.166E-07
77.885	78.275	82.503	82.633	84.910	85.495	89.463	89.528	96.162	96.943
2.79936	2.81339	2.96535	2.97002	3.05185	3.07289	3.21550	3.21784	3.45630	3.48435
9.514E-08	6.995E-08	1.297E-08							
99.805	99.870	100.000							
3.58722	3.58956	3.59423							

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 0.219
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 0.648
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 1.858
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 2.797
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 2.963
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(7)= 3.453

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
5	1	-8.40538	-14.60021	-1.49104

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  5  2     -10.35129 -15.77918  -1.90477
  5  3     -11.04582 -15.81571  -1.91947
  5  4     -11.81533 -20.62666  -4.22787
  5  5     -12.54483 -65.09892 -27.49278
  5  6     -13.23843 -73.07284 -31.71999
  5  7     -15.40582     NUMXQ(K)=  7
    7.072E-05              0.036              1.000
    4.425E-05              0.108              3.000
    3.507E-05              0.180              5.000
    2.350E-05              0.359             10.000
    1.806E-05              0.539             15.000
    1.486E-05              0.719             20.000
    1.271E-05              0.899             25.000
    1.115E-05              1.078             30.000
    9.957E-06              1.258             35.000
    9.009E-06              1.438             40.000
    8.236E-06              1.617             45.000
    7.590E-06              1.797             50.000
    6.646E-06              1.977             55.000
    5.705E-06              2.157             60.000
    4.948E-06              2.336             65.000
    4.330E-06              2.516             70.000
    3.819E-06              2.696             75.000
    2.583E-06              2.875             80.000
    1.173E-06              3.055             85.000
    5.240E-07              3.235             90.000

    1.898E-05              0.5               13.91

ANNUAL AVERAGE =   1.35E-07

K=  5     FIVEXQ(K)= 1.898E-05     FIVEPR(K)=13.911
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE WNW SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 10.0 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.6	4.94	7300.	0.	0.	1000.0	1000.0	1000.0	2.039E-07	2.039E-07	2.039E-07
A	3.3	6.06	7300.	0.	0.	1000.0	1000.0	1000.0	9.517E-08	9.514E-08	9.514E-08
A	5.6	0.50	7300.	0.	0.	1000.0	1000.0	1000.0	5.710E-08	5.708E-08	5.708E-08
B	1.6	2.75	7300.	0.	0.	848.1	962.0	848.1	2.500E-07	2.498E-07	2.498E-07
B	3.3	1.94	7300.	0.	0.	848.1	962.0	848.1	1.166E-07	1.166E-07	1.166E-07
B	5.6	0.38	7300.	0.	0.	848.1	962.0	848.1	6.999E-08	6.995E-08	6.995E-08
C	1.6	1.69	7300.	0.	0.	644.0	373.7	644.0	8.473E-07	8.459E-07	8.459E-07
C	3.3	0.63	7300.	0.	0.	644.0	373.7	644.0	3.954E-07	3.947E-07	3.947E-07
C	5.6	0.06	7300.	0.	0.	644.0	373.7	644.0	2.372E-07	2.368E-07	2.368E-07
C	8.2	0.06	7300.	0.	0.	644.0	373.7	644.0	1.603E-07	1.600E-07	1.600E-07
D	0.2	0.03	7300.	0.	0.	453.5	111.1	515.1	2.494E-05	2.810E-05	2.494E-05
D	1.6	10.94	7300.	0.	0.	453.5	111.1	515.1	3.563E-06	4.014E-06	3.563E-06
D	3.3	9.06	7300.	0.	0.	453.5	111.1	481.0	1.781E-06	1.873E-06	1.781E-06
D	5.6	0.50	7300.	0.	0.	453.5	111.1	456.4	1.126E-06	1.124E-06	1.124E-06
E	0.2	0.21	7300.	0.	0.	322.5	67.5	410.0	5.173E-05	6.456E-05	5.173E-05
E	1.6	29.38	7300.	0.	0.	322.5	67.5	410.0	7.390E-06	9.223E-06	7.390E-06
E	3.3	11.06	7300.	0.	0.	322.5	67.5	357.4	3.956E-06	4.304E-06	3.956E-06
E	5.6	1.06	7300.	0.	0.	322.5	67.5	325.9	2.603E-06	2.582E-06	2.582E-06
F	0.2	0.10	7300.	0.	0.	222.6	40.9	313.3	1.117E-04	1.504E-04	1.117E-04
F	1.6	14.00	7300.	0.	0.	222.6	40.9	313.3	1.595E-05	2.148E-05	1.595E-05
F	3.3	0.88	7300.	0.	0.	222.6	40.9	255.8	9.119E-06	1.002E-05	9.119E-06
G	0.2	0.03	7300.	0.	0.	153.6	24.8	257.9	2.237E-04	3.389E-04	2.237E-04
G	1.6	3.44	7300.	0.	0.	153.6	24.8	257.9	3.195E-05	4.842E-05	3.195E-05
G	3.3	0.31	7300.	0.	0.	153.6	24.8	187.1	2.056E-05	2.260E-05	2.056E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

WNW SECTOR BOUNDARY DISTANCE = 7300.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

2.237E-04	1.117E-04	5.173E-05	3.195E-05	2.494E-05	2.056E-05	1.595E-05	9.119E-06	7.390E-06	3.956E-06
0.027	0.132	0.341	3.779	3.804	4.117	18.118	18.993	48.371	59.434
0.00102	0.00493	0.01277	0.14135	0.14230	0.15398	0.67767	0.71040	1.80920	2.22300
3.563E-06	2.582E-06	1.781E-06	1.124E-06	8.459E-07	3.947E-07	2.498E-07	2.368E-07	2.039E-07	1.600E-07
70.373	71.435	80.498	80.998	82.686	83.311	86.061	86.124	91.062	91.124
2.63213	2.67187	3.01086	3.02956	3.09269	3.11606	3.21893	3.22127	3.40596	3.40830
1.166E-07	9.514E-08	6.995E-08	5.708E-08						
93.062	99.125	99.500	100.000						
3.48077	3.70755	3.72157	3.74028						

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED
CHI/Q WITH RESPECT TO WHEN THE WIND BLOWS
SEC/CUBIC METER THE TOTAL TIME INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 0.677
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 1.807
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 2.630
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 3.008
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 3.704

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
6	1	-8.40538	-14.68508	-1.47380
6	2	-11.04582	-16.12625	-2.05743

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  6  3     -11.81533 -21.54951  -4.64573
  6  4     -12.54483 -35.46656 -11.82587
  6  5     -13.23843 -72.10627 -31.31903
  6  6     -16.16796     NUMXQ(K)=  6
    6.030E-05              0.037              1.000
    3.789E-05              0.112              3.000
    3.008E-05              0.187              5.000
    2.160E-05              0.374             10.000
    1.761E-05              0.561             15.000
    1.483E-05              0.748             20.000
    1.253E-05              0.935             25.000
    1.088E-05              1.122             30.000
    9.630E-06              1.309             35.000
    8.646E-06              1.496             40.000
    7.849E-06              1.683             45.000
    6.941E-06              1.870             50.000
    5.784E-06              2.057             55.000
    4.885E-06              2.244             60.000
    4.174E-06              2.431             65.000
    3.601E-06              2.618             70.000
    2.570E-06              2.805             75.000
    1.839E-06              2.992             80.000
    8.366E-07              3.179             85.000
    3.754E-07              3.366             90.000

    1.868E-05              0.5               13.37

ANNUAL AVERAGE =   1.27E-07

K=  6     FIVEXQ(K)= 1.868E-05     FIVEPR(K)=13.368
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE NW SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 10.0 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.6	2.38	7300.	0.	0.	1000.0	1000.0	1000.0	2.039E-07	2.039E-07	2.039E-07
A	3.3	5.19	7300.	0.	0.	1000.0	1000.0	1000.0	9.517E-08	9.514E-08	9.514E-08
A	5.6	0.29	7300.	0.	0.	1000.0	1000.0	1000.0	5.710E-08	5.708E-08	5.708E-08
B	1.6	1.10	7300.	0.	0.	848.1	962.0	848.1	2.500E-07	2.498E-07	2.498E-07
B	3.3	2.67	7300.	0.	0.	848.1	962.0	848.1	1.166E-07	1.166E-07	1.166E-07
B	5.6	0.43	7300.	0.	0.	848.1	962.0	848.1	6.999E-08	6.995E-08	6.995E-08
B	24.5	0.05	7300.	0.	0.	848.1	962.0	848.1	1.591E-08	1.590E-08	1.590E-08
C	1.6	0.52	7300.	0.	0.	644.0	373.7	644.0	8.473E-07	8.459E-07	8.459E-07
C	3.3	1.57	7300.	0.	0.	644.0	373.7	644.0	3.954E-07	3.947E-07	3.947E-07
C	5.6	0.24	7300.	0.	0.	644.0	373.7	644.0	2.372E-07	2.368E-07	2.368E-07
D	0.2	0.02	7300.	0.	0.	453.5	111.1	515.1	2.494E-05	2.810E-05	2.494E-05
D	1.6	7.33	7300.	0.	0.	453.5	111.1	515.1	3.563E-06	4.014E-06	3.563E-06
D	3.3	18.14	7300.	0.	0.	453.5	111.1	481.0	1.781E-06	1.873E-06	1.781E-06
D	5.6	3.67	7300.	0.	0.	453.5	111.1	456.4	1.126E-06	1.124E-06	1.124E-06
D	8.2	0.10	7300.	0.	0.	453.5	111.1	453.5	7.657E-07	7.595E-07	7.595E-07
E	0.2	0.18	7300.	0.	0.	322.5	67.5	410.0	5.173E-05	6.456E-05	5.173E-05
E	1.6	25.85	7300.	0.	0.	322.5	67.5	410.0	7.390E-06	9.223E-06	7.390E-06
E	3.3	18.81	7300.	0.	0.	322.5	67.5	357.4	3.956E-06	4.304E-06	3.956E-06
E	5.6	2.48	7300.	0.	0.	322.5	67.5	325.9	2.603E-06	2.582E-06	2.582E-06
E	8.2	0.05	7300.	0.	0.	322.5	67.5	322.5	1.778E-06	1.745E-06	1.745E-06
F	0.2	0.05	7300.	0.	0.	222.6	40.9	313.3	1.117E-04	1.504E-04	1.117E-04
F	1.6	6.14	7300.	0.	0.	222.6	40.9	313.3	1.595E-05	2.148E-05	1.595E-05
F	3.3	1.14	7300.	0.	0.	222.6	40.9	255.8	9.119E-06	1.002E-05	9.119E-06
G	0.2	0.01	7300.	0.	0.	153.6	24.8	257.9	2.237E-04	3.389E-04	2.237E-04
G	1.6	1.52	7300.	0.	0.	153.6	24.8	257.9	3.195E-05	4.842E-05	3.195E-05
G	3.3	0.10	7300.	0.	0.	153.6	24.8	187.1	2.056E-05	2.260E-05	2.056E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

NW SECTOR BOUNDARY DISTANCE = 7300.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

2.237E-04	1.117E-04	5.173E-05	3.195E-05	2.494E-05	2.056E-05	1.595E-05	9.119E-06	7.390E-06	3.956E-06
0.012	0.058	0.242	1.766	1.783	1.878	8.020	9.162	35.014	53.819
0.00059	0.00285	0.01190	0.08671	0.08754	0.09222	0.39380	0.44991	1.71938	2.64283
3.563E-06	2.582E-06	1.781E-06	1.745E-06	1.124E-06	8.459E-07	7.595E-07	3.947E-07	2.498E-07	2.368E-07
61.151	63.627	81.766	81.813	85.479	86.003	86.098	87.669	88.764	89.002
3.00287	3.12443	4.01516	4.01750	4.19752	4.22323	4.22791	4.30506	4.35883	4.37052
2.039E-07	1.166E-07	9.514E-08	6.995E-08	5.708E-08	1.590E-08				
91.383	94.049	99.238	99.667	99.952	100.000				
4.48741	4.61833	4.87316	4.89420	4.90823	4.91057				

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 1.717
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 3.000
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 4.012
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 4.194
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 4.870

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
7	1	-8.40538	-15.00167	-1.50587
7	2	-11.81533	-18.37962	-3.10230

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  7  3     -12.54483 -22.46722  -5.27565
  7  4     -13.23843 -52.08302 -22.20554
  7  5     -13.69861 -73.85634 -34.80150
  7  6     -16.16796     NUMXQ(K)=  6
    4.368E-05              0.049              1.000
    2.689E-05              0.147              3.000
    2.112E-05              0.246              5.000
    1.492E-05              0.491             10.000
    1.203E-05              0.737             15.000
    1.026E-05              0.982             20.000
    9.027E-06              1.228             25.000
    8.110E-06              1.473             30.000
    7.392E-06              1.719             35.000
    6.245E-06              1.964             40.000
    5.365E-06              2.210             45.000
    4.672E-06              2.455             50.000
    4.114E-06              2.701             55.000
    3.657E-06              2.946             60.000
    3.089E-06              3.192             65.000
    2.592E-06              3.437             70.000
    2.197E-06              3.683             75.000
    1.879E-06              3.928             80.000
    1.192E-06              4.174             85.000
    4.830E-07              4.420             90.000

    1.478E-05              0.5               10.18

ANNUAL AVERAGE =   1.27E-07

K=  7     FIVEXQ(K)= 1.478E-05     FIVEPR(K)=10.182
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE NNW SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 10.0 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.6	1.13	7300.	0.	0.	1000.0	1000.0	1000.0	2.039E-07	2.039E-07	2.039E-07
A	3.3	2.78	7300.	0.	0.	1000.0	1000.0	1000.0	9.517E-08	9.514E-08	9.514E-08
A	5.6	1.02	7300.	0.	0.	1000.0	1000.0	1000.0	5.710E-08	5.708E-08	5.708E-08
A	8.2	0.18	7300.	0.	0.	1000.0	1000.0	1000.0	3.858E-08	3.857E-08	3.857E-08
B	1.6	0.46	7300.	0.	0.	848.1	962.0	848.1	2.500E-07	2.498E-07	2.498E-07
B	3.3	2.54	7300.	0.	0.	848.1	962.0	848.1	1.166E-07	1.166E-07	1.166E-07
B	5.6	1.20	7300.	0.	0.	848.1	962.0	848.1	6.999E-08	6.995E-08	6.995E-08
B	8.2	0.25	7300.	0.	0.	848.1	962.0	848.1	4.729E-08	4.727E-08	4.727E-08
C	1.6	0.18	7300.	0.	0.	644.0	373.7	644.0	8.473E-07	8.459E-07	8.459E-07
C	3.3	1.87	7300.	0.	0.	644.0	373.7	644.0	3.954E-07	3.947E-07	3.947E-07
C	5.6	0.60	7300.	0.	0.	644.0	373.7	644.0	2.372E-07	2.368E-07	2.368E-07
C	8.2	0.11	7300.	0.	0.	644.0	373.7	644.0	1.603E-07	1.600E-07	1.600E-07
C	10.7	0.04	7300.	0.	0.	644.0	373.7	644.0	1.236E-07	1.234E-07	1.234E-07
D	0.2	0.02	7300.	0.	0.	453.5	111.1	515.1	2.494E-05	2.810E-05	2.494E-05
D	1.6	8.07	7300.	0.	0.	453.5	111.1	515.1	3.563E-06	4.014E-06	3.563E-06
D	3.3	20.87	7300.	0.	0.	453.5	111.1	481.0	1.781E-06	1.873E-06	1.781E-06
D	5.6	5.29	7300.	0.	0.	453.5	111.1	456.4	1.126E-06	1.124E-06	1.124E-06
D	8.2	0.42	7300.	0.	0.	453.5	111.1	453.5	7.657E-07	7.595E-07	7.595E-07
E	0.2	0.15	7300.	0.	0.	322.5	67.5	410.0	5.173E-05	6.456E-05	5.173E-05
E	1.6	21.15	7300.	0.	0.	322.5	67.5	410.0	7.390E-06	9.223E-06	7.390E-06
E	3.3	23.87	7300.	0.	0.	322.5	67.5	357.4	3.956E-06	4.304E-06	3.956E-06
E	5.6	2.50	7300.	0.	0.	322.5	67.5	325.9	2.603E-06	2.582E-06	2.582E-06
E	8.2	0.21	7300.	0.	0.	322.5	67.5	322.5	1.778E-06	1.745E-06	1.745E-06
F	0.2	0.03	7300.	0.	0.	222.6	40.9	313.3	1.117E-04	1.504E-04	1.117E-04
F	1.6	3.49	7300.	0.	0.	222.6	40.9	313.3	1.595E-05	2.148E-05	1.595E-05
F	3.3	0.63	7300.	0.	0.	222.6	40.9	255.8	9.119E-06	1.002E-05	9.119E-06
G	0.2	0.01	7300.	0.	0.	153.6	24.8	257.9	2.237E-04	3.389E-04	2.237E-04
G	1.6	0.95	7300.	0.	0.	153.6	24.8	257.9	3.195E-05	4.842E-05	3.195E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

NNW SECTOR BOUNDARY DISTANCE = 7300.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

2.237E-04	1.117E-04	5.173E-05	3.195E-05	2.494E-05	1.595E-05	9.119E-06	7.390E-06	3.956E-06	3.563E-06
0.008	0.034	0.184	1.136	1.155	4.645	5.279	26.430	50.295	58.368
0.00050	0.00223	0.01224	0.07536	0.07659	0.30804	0.35012	1.75284	3.33558	3.87095
2.582E-06	1.781E-06	1.745E-06	1.124E-06	8.459E-07	7.595E-07	3.947E-07	2.498E-07	2.368E-07	2.039E-07
60.871	81.740	81.951	87.239	87.415	87.838	89.707	90.165	90.764	91.892
4.03694	5.42096	5.43499	5.78567	5.79736	5.82541	5.94932	5.97971	6.01945	6.09427
1.600E-07	1.234E-07	1.166E-07	9.514E-08	6.995E-08	5.708E-08	4.727E-08	3.857E-08		
91.998	92.033	94.571	97.356	98.555	99.577	99.824	100.000		
6.10128	6.10362	6.27194	6.45663	6.53612	6.60392	6.62029	6.63197		

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 1.751
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 3.868
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 5.417
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 5.782
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 6.268
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(7)= 6.453

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
8	1	-8.40538	-14.92852	-1.47675

```
  8  2     -11.81533 -16.31359  -2.13376
  8  3     -12.54483 -20.17421  -4.31952
  8  4     -13.23843 -36.09462 -14.23456
  8  5     -13.69861-101.29270 -55.67347
  8  6     -15.96463 -37.00098 -13.72546
  8  7     -16.16796     NUMXQ(K)=  7
    3.764E-05              0.066              1.000
    2.311E-05              0.199              3.000
    1.811E-05              0.332              5.000
    1.274E-05              0.663             10.000
    1.024E-05              0.995             15.000
    8.703E-06              1.326             20.000
    7.639E-06              1.658             25.000
    6.617E-06              1.990             30.000
    5.768E-06              2.321             35.000
    5.106E-06              2.653             40.000
    4.576E-06              2.984             45.000
    4.141E-06              3.316             50.000
    3.777E-06              3.648             55.000
    3.372E-06              3.979             60.000
    2.869E-06              4.311             65.000
    2.465E-06              4.642             70.000
    2.136E-06              4.974             75.000
    1.864E-06              5.306             80.000
    1.352E-06              5.637             85.000
    4.708E-07              5.969             90.000

    1.475E-05              0.5                7.54

ANNUAL AVERAGE =   1.49E-07

K=  8     FIVEXQ(K)= 1.475E-05     FIVEPR(K)= 7.539
```

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE N SECTOR.

STABILITY CLASS	WINDSPEED AT 10.0 METERS METER/SEC	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.6	0.23	7300.	0.	0.	1000.0	1000.0	1000.0	2.039E-07	2.039E-07	2.039E-07
A	3.3	2.01	7300.	0.	0.	1000.0	1000.0	1000.0	9.517E-08	9.514E-08	9.514E-08
A	5.6	2.77	7300.	0.	0.	1000.0	1000.0	1000.0	5.710E-08	5.708E-08	5.708E-08
A	8.2	0.37	7300.	0.	0.	1000.0	1000.0	1000.0	3.858E-08	3.857E-08	3.857E-08
B	1.6	0.34	7300.	0.	0.	848.1	962.0	848.1	2.500E-07	2.498E-07	2.498E-07
B	3.3	2.57	7300.	0.	0.	848.1	962.0	848.1	1.166E-07	1.166E-07	1.166E-07
B	5.6	4.10	7300.	0.	0.	848.1	962.0	848.1	6.999E-08	6.995E-08	6.995E-08
B	8.2	0.62	7300.	0.	0.	848.1	962.0	848.1	4.729E-08	4.727E-08	4.727E-08
C	1.6	0.17	7300.	0.	0.	644.0	373.7	644.0	8.473E-07	8.459E-07	8.459E-07
C	3.3	1.87	7300.	0.	0.	644.0	373.7	644.0	3.954E-07	3.947E-07	3.947E-07
C	5.6	2.12	7300.	0.	0.	644.0	373.7	644.0	2.372E-07	2.368E-07	2.368E-07
C	8.2	0.23	7300.	0.	0.	644.0	373.7	644.0	1.603E-07	1.600E-07	1.600E-07
D	0.2	0.01	7300.	0.	0.	453.5	111.1	515.1	2.494E-05	2.810E-05	2.494E-05
D	1.6	5.00	7300.	0.	0.	453.5	111.1	515.1	3.563E-06	4.014E-06	3.563E-06
D	3.3	15.38	7300.	0.	0.	453.5	111.1	481.0	1.781E-06	1.873E-06	1.781E-06
D	5.6	9.19	7300.	0.	0.	453.5	111.1	456.4	1.126E-06	1.124E-06	1.124E-06
D	8.2	1.27	7300.	0.	0.	453.5	111.1	453.5	7.657E-07	7.595E-07	7.595E-07
E	0.2	0.13	7300.	0.	0.	322.5	67.5	410.0	5.173E-05	6.456E-05	5.173E-05
E	1.6	17.92	7300.	0.	0.	322.5	67.5	410.0	7.390E-06	9.223E-06	7.390E-06
E	3.3	21.79	7300.	0.	0.	322.5	67.5	357.4	3.956E-06	4.304E-06	3.956E-06
E	5.6	5.71	7300.	0.	0.	322.5	67.5	325.9	2.603E-06	2.582E-06	2.582E-06
E	8.2	0.71	7300.	0.	0.	322.5	67.5	322.5	1.778E-06	1.745E-06	1.745E-06
E	10.7	0.03	7300.	0.	0.	322.5	67.5	322.5	1.370E-06	1.345E-06	1.345E-06
F	0.2	0.03	7300.	0.	0.	222.6	40.9	313.3	1.117E-04	1.504E-04	1.117E-04
F	1.6	3.42	7300.	0.	0.	222.6	40.9	313.3	1.595E-05	2.148E-05	1.595E-05
F	3.3	1.38	7300.	0.	0.	222.6	40.9	255.8	9.119E-06	1.002E-05	9.119E-06
G	0.2	0.01	7300.	0.	0.	153.6	24.8	257.9	2.237E-04	3.389E-04	2.237E-04
G	1.6	0.65	7300.	0.	0.	153.6	24.8	257.9	3.195E-05	4.842E-05	3.195E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

N SECTOR BOUNDARY DISTANCE = 7300.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

2.237E-04	1.117E-04	5.173E-05	3.195E-05	2.494E-05	1.595E-05	9.119E-06	7.390E-06	3.956E-06	3.563E-06
0.005	0.031	0.159	0.809	0.820	4.240	5.625	23.545	45.337	50.339
0.00043	0.00254	0.01311	0.06688	0.06784	0.35072	0.46528	1.94748	3.74998	4.16378
2.582E-06	1.781E-06	1.745E-06	1.345E-06	1.124E-06	8.459E-07	7.595E-07	3.947E-07	2.498E-07	2.368E-07
56.049	71.425	72.131	72.160	81.345	81.515	82.787	84.652	84.992	87.111
4.63603	5.90783	5.96628	5.96862	6.72843	6.74245	6.84766	7.00196	7.03001	7.20535
2.039E-07	1.600E-07	1.166E-07	9.514E-08	6.995E-08	5.708E-08	4.727E-08	3.857E-08		
87.338	87.564	90.136	92.143	96.241	99.011	99.633	100.000		
7.22405	7.24276	7.45550	7.62149	7.96048	8.18959	8.24103	8.27142		

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 1.945
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 4.160
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 5.904
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 5.962
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 6.725
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(7)= 8.186

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
9	1	-8.40538	-14.76598	-1.42878

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  9  2     -11.81533 -16.34240  -2.19212
  9  3     -12.54483 -19.63423  -4.09230
  9  4     -13.23843 -19.67864  -4.12072
  9  5     -13.25883 -24.43392  -7.17302
  9  6     -13.69861 -56.60621 -28.66959
  9  7     -16.67879     NUMXQ(K)=  7
    3.464E-05              0.083              1.000
    2.142E-05              0.248              3.000
    1.683E-05              0.414              5.000
    1.188E-05              0.827             10.000
    9.552E-06              1.241             15.000
    8.125E-06              1.654             20.000
    7.000E-06              2.068             25.000
    5.915E-06              2.481             30.000
    5.110E-06              2.895             35.000
    4.488E-06              3.309             40.000
    3.993E-06              3.722             45.000
    3.588E-06              4.136             50.000
    3.003E-06              4.549             55.000
    2.531E-06              4.963             60.000
    2.157E-06              5.376             65.000
    1.856E-06              5.790             70.000
    1.515E-06              6.204             75.000
    1.196E-06              6.617             80.000
    5.841E-07              7.031             85.000
    2.469E-07              7.444             90.000

    1.534E-05              0.5                6.04

ANNUAL AVERAGE =   1.62E-07

K=  9     FIVEXQ(K)= 1.534E-05     FIVEPR(K)= 6.045
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE NNE SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 10.0 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.6	0.17	7300.	0.	0.	1000.0	1000.0	1000.0	2.039E-07	2.039E-07	2.039E-07
A	3.3	2.41	7300.	0.	0.	1000.0	1000.0	1000.0	9.517E-08	9.514E-08	9.514E-08
A	5.6	1.74	7300.	0.	0.	1000.0	1000.0	1000.0	5.710E-08	5.708E-08	5.708E-08
A	8.2	0.06	7300.	0.	0.	1000.0	1000.0	1000.0	3.858E-08	3.857E-08	3.857E-08
B	1.6	0.11	7300.	0.	0.	848.1	962.0	848.1	2.500E-07	2.498E-07	2.498E-07
B	3.3	2.52	7300.	0.	0.	848.1	962.0	848.1	1.166E-07	1.166E-07	1.166E-07
B	5.6	2.58	7300.	0.	0.	848.1	962.0	848.1	6.999E-08	6.995E-08	6.995E-08
B	8.2	0.06	7300.	0.	0.	848.1	962.0	848.1	4.729E-08	4.727E-08	4.727E-08
C	3.3	1.35	7300.	0.	0.	644.0	373.7	644.0	3.954E-07	3.947E-07	3.947E-07
C	5.6	1.74	7300.	0.	0.	644.0	373.7	644.0	2.372E-07	2.368E-07	2.368E-07
D	0.2	0.01	7300.	0.	0.	453.5	111.1	515.1	2.494E-05	2.810E-05	2.494E-05
D	1.6	5.16	7300.	0.	0.	453.5	111.1	515.1	3.563E-06	4.014E-06	3.563E-06
D	3.3	13.07	7300.	0.	0.	453.5	111.1	481.0	1.781E-06	1.873E-06	1.781E-06
D	5.6	6.06	7300.	0.	0.	453.5	111.1	456.4	1.126E-06	1.124E-06	1.124E-06
D	8.2	0.56	7300.	0.	0.	453.5	111.1	453.5	7.657E-07	7.595E-07	7.595E-07
D	10.7	0.11	7300.	0.	0.	453.5	111.1	453.5	5.902E-07	5.854E-07	5.854E-07
E	0.2	0.15	7300.	0.	0.	322.5	67.5	410.0	5.173E-05	6.456E-05	5.173E-05
E	1.6	21.04	7300.	0.	0.	322.5	67.5	410.0	7.390E-06	9.223E-06	7.390E-06
E	3.3	21.93	7300.	0.	0.	322.5	67.5	357.4	3.956E-06	4.304E-06	3.956E-06
E	5.6	3.03	7300.	0.	0.	322.5	67.5	325.9	2.603E-06	2.582E-06	2.582E-06
E	8.2	0.22	7300.	0.	0.	322.5	67.5	322.5	1.778E-06	1.745E-06	1.745E-06
F	0.2	0.08	7300.	0.	0.	222.6	40.9	313.3	1.117E-04	1.504E-04	1.117E-04
F	1.6	11.00	7300.	0.	0.	222.6	40.9	313.3	1.595E-05	2.148E-05	1.595E-05
F	3.3	2.58	7300.	0.	0.	222.6	40.9	255.8	9.119E-06	1.002E-05	9.119E-06
G	0.2	0.01	7300.	0.	0.	153.6	24.8	257.9	2.237E-04	3.389E-04	2.237E-04
G	1.6	1.85	7300.	0.	0.	153.6	24.8	257.9	3.195E-05	4.842E-05	3.195E-05
G	3.3	0.39	7300.	0.	0.	153.6	24.8	187.1	2.056E-05	2.260E-05	2.056E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

NNE SECTOR BOUNDARY DISTANCE = 7300.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

2.237E-04	1.117E-04	5.173E-05	3.195E-05	2.494E-05	2.056E-05	1.595E-05	9.119E-06	7.390E-06	3.956E-06
0.015	0.097	0.247	2.098	2.110	2.503	13.498	16.078	37.115	59.049
0.00061	0.00403	0.01029	0.08744	0.08793	0.10430	0.56252	0.67006	1.54676	2.46087
3.563E-06	2.582E-06	1.781E-06	1.745E-06	1.124E-06	7.595E-07	5.854E-07	3.947E-07	2.498E-07	2.368E-07
64.210	67.239	80.310	80.534	86.593	87.154	87.266	88.612	88.724	90.463
2.67595	2.80220	3.34692	3.35627	3.60876	3.63214	3.63682	3.69293	3.69760	3.77008
2.039E-07	1.166E-07	9.514E-08	6.995E-08	5.708E-08	4.727E-08	3.857E-08			
90.632	93.156	95.568	98.149	99.888	99.944	100.000			
3.77709	3.88230	3.98282	4.09037	4.16284	4.16518	4.16752			

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED
CHI/Q WITH RESPECT TO WHEN THE WIND BLOWS
SEC/CUBIC METER THE TOTAL TIME INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 0.562
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 1.545
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 2.673
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 3.344
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 3.606
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(7)= 4.159

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
10	1	-8.40538	-14.68705	-1.43625

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 10  2     -11.04582 -16.22211  -2.04174
 10  3     -11.81533 -18.74508  -3.21067
 10  4     -12.54483 -26.12405  -7.03173
 10  5     -13.23843 -37.97973 -13.50141
 10  6     -13.69861 -94.98652 -45.19980
 10  7     -16.67879     NUMXQ(K)=  7
    5.080E-05              0.042              1.000
    3.217E-05              0.125              3.000
    2.564E-05              0.208              5.000
    1.851E-05              0.417             10.000
    1.479E-05              0.625             15.000
    1.197E-05              0.834             20.000
    1.010E-05              1.042             25.000
    8.763E-06              1.250             30.000
    7.750E-06              1.459             35.000
    6.713E-06              1.667             40.000
    5.758E-06              1.875             45.000
    5.009E-06              2.084             50.000
    4.406E-06              2.292             55.000
    3.913E-06              2.501             60.000
    3.433E-06              2.709             65.000
    2.735E-06              2.917             70.000
    2.208E-06              3.126             75.000
    1.803E-06              3.334             80.000
    1.260E-06              3.542             85.000
    5.063E-07              3.751             90.000

    1.692E-05              0.5               12.00

ANNUAL AVERAGE =   1.14E-07

K= 10     FIVEXQ(K)= 1.692E-05     FIVEPR(K)=11.998
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE NE SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 10.0 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.6	0.21	7300.	0.	0.	1000.0	1000.0	1000.0	2.039E-07	2.039E-07	2.039E-07
A	3.3	2.81	7300.	0.	0.	1000.0	1000.0	1000.0	9.517E-08	9.514E-08	9.514E-08
A	5.6	2.03	7300.	0.	0.	1000.0	1000.0	1000.0	5.710E-08	5.708E-08	5.708E-08
A	8.2	0.16	7300.	0.	0.	1000.0	1000.0	1000.0	3.858E-08	3.857E-08	3.857E-08
B	1.6	0.31	7300.	0.	0.	848.1	962.0	848.1	2.500E-07	2.498E-07	2.498E-07
B	3.3	3.34	7300.	0.	0.	848.1	962.0	848.1	1.166E-07	1.166E-07	1.166E-07
B	5.6	1.46	7300.	0.	0.	848.1	962.0	848.1	6.999E-08	6.995E-08	6.995E-08
B	8.2	0.16	7300.	0.	0.	848.1	962.0	848.1	4.729E-08	4.727E-08	4.727E-08
C	1.6	0.26	7300.	0.	0.	644.0	373.7	644.0	8.473E-07	8.459E-07	8.459E-07
C	3.3	1.25	7300.	0.	0.	644.0	373.7	644.0	3.954E-07	3.947E-07	3.947E-07
C	5.6	1.15	7300.	0.	0.	644.0	373.7	644.0	2.372E-07	2.368E-07	2.368E-07
D	0.2	0.01	7300.	0.	0.	453.5	111.1	515.1	2.494E-05	2.810E-05	2.494E-05
D	1.6	4.06	7300.	0.	0.	453.5	111.1	515.1	3.563E-06	4.014E-06	3.563E-06
D	3.3	9.80	7300.	0.	0.	453.5	111.1	481.0	1.781E-06	1.873E-06	1.781E-06
D	5.6	4.06	7300.	0.	0.	453.5	111.1	456.4	1.126E-06	1.124E-06	1.124E-06
D	8.2	0.26	7300.	0.	0.	453.5	111.1	453.5	7.657E-07	7.595E-07	7.595E-07
E	0.2	0.12	7300.	0.	0.	322.5	67.5	410.0	5.173E-05	6.456E-05	5.173E-05
E	1.6	16.94	7300.	0.	0.	322.5	67.5	410.0	7.390E-06	9.223E-06	7.390E-06
E	3.3	16.88	7300.	0.	0.	322.5	67.5	357.4	3.956E-06	4.304E-06	3.956E-06
E	5.6	2.40	7300.	0.	0.	322.5	67.5	325.9	2.603E-06	2.582E-06	2.582E-06
F	0.2	0.11	7300.	0.	0.	222.6	40.9	313.3	1.117E-04	1.504E-04	1.117E-04
F	1.6	15.32	7300.	0.	0.	222.6	40.9	313.3	1.595E-05	2.148E-05	1.595E-05
F	3.3	5.05	7300.	0.	0.	222.6	40.9	255.8	9.119E-06	1.002E-05	9.119E-06
F	5.6	0.05	7300.	0.	0.	222.6	40.9	225.6	6.202E-06	6.015E-06	6.015E-06
G	0.2	0.07	7300.	0.	0.	153.6	24.8	257.9	2.237E-04	3.389E-04	2.237E-04
G	1.6	8.65	7300.	0.	0.	153.6	24.8	257.9	3.195E-05	4.842E-05	3.195E-05
G	3.3	3.07	7300.	0.	0.	153.6	24.8	187.1	2.056E-05	2.260E-05	2.056E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

NE SECTOR BOUNDARY DISTANCE = 7300.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

2.237E-04	1.117E-04	5.173E-05	3.195E-05	2.494E-05	2.056E-05	1.595E-05	9.119E-06	7.390E-06	6.015E-06
0.068	0.183	0.304	8.954	8.963	12.038	27.358	32.413	49.349	49.401
0.00307	0.00821	0.01363	0.40171	0.40213	0.54007	1.22740	1.45418	2.21398	2.21632
3.956E-06	3.563E-06	2.582E-06	1.781E-06	1.124E-06	8.459E-07	7.595E-07	3.947E-07	2.498E-07	2.368E-07
66.285	70.349	72.746	82.543	86.608	86.868	87.129	88.379	88.692	89.838
2.97379	3.15614	3.26369	3.70321	3.88556	3.89725	3.90894	3.96505	3.97907	4.03051
2.039E-07	1.166E-07	9.514E-08	6.995E-08	5.708E-08	4.727E-08	3.857E-08			
90.047	93.382	96.196	97.655	99.687	99.844	100.000			
4.03986	4.18948	4.31573	4.38119	4.47236	4.47938	4.48639			

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 0.401
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 1.226
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 2.212
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 3.153
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 3.700
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(7)= 3.882

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
11	1	-8.40538	-14.15498	-1.43480

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 11  2     -10.35129 -14.92988  -1.72710
 11  3     -11.04582 -18.34724  -3.24669
 11  4     -11.81533 -21.39976  -4.76394
 11  5     -12.54483 -30.42010  -9.61687
 11  6     -13.23843 -50.44180 -20.82336
 11  7     -13.69861     NUMXQ(K)=  7
    8.357E-05              0.045              1.000
    5.281E-05              0.135              3.000
    4.203E-05              0.224              5.000
    2.995E-05              0.449             10.000
    2.345E-05              0.673             15.000
    1.957E-05              0.897             20.000
    1.693E-05              1.122             25.000
    1.421E-05              1.346             30.000
    1.166E-05              1.570             35.000
    9.794E-06              1.795             40.000
    8.373E-06              2.019             45.000
    7.199E-06              2.243             50.000
    5.939E-06              2.468             55.000
    4.970E-06              2.692             60.000
    4.209E-06              2.916             65.000
    3.601E-06              3.140             70.000
    2.705E-06              3.365             75.000
    2.043E-06              3.589             80.000
    1.345E-06              3.813             85.000

    2.808E-05              0.5               11.14

ANNUAL AVERAGE =   1.59E-07

K= 11      FIVEXQ(K)= 2.808E-05      FIVEPR(K)=11.145
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE ENE SECTOR.

STABILITY CLASS	WINDSPEED AT 10.0 METERS METER/SEC	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.6	0.24	7300.	0.	0.	1000.0	1000.0	1000.0	2.039E-07	2.039E-07	2.039E-07
A	3.3	1.35	7300.	0.	0.	1000.0	1000.0	1000.0	9.517E-08	9.514E-08	9.514E-08
A	5.6	0.97	7300.	0.	0.	1000.0	1000.0	1000.0	5.710E-08	5.708E-08	5.708E-08
A	8.2	0.03	7300.	0.	0.	1000.0	1000.0	1000.0	3.858E-08	3.857E-08	3.857E-08
B	1.6	0.21	7300.	0.	0.	848.1	962.0	848.1	2.500E-07	2.498E-07	2.498E-07
B	3.3	1.45	7300.	0.	0.	848.1	962.0	848.1	1.166E-07	1.166E-07	1.166E-07
B	5.6	0.83	7300.	0.	0.	848.1	962.0	848.1	6.999E-08	6.995E-08	6.995E-08
C	1.6	0.14	7300.	0.	0.	644.0	373.7	644.0	8.473E-07	8.459E-07	8.459E-07
C	3.3	0.73	7300.	0.	0.	644.0	373.7	644.0	3.954E-07	3.947E-07	3.947E-07
C	5.6	0.76	7300.	0.	0.	644.0	373.7	644.0	2.372E-07	2.368E-07	2.368E-07
D	0.2	0.01	7300.	0.	0.	453.5	111.1	515.1	2.494E-05	2.810E-05	2.494E-05
D	1.6	3.63	7300.	0.	0.	453.5	111.1	515.1	3.563E-06	4.014E-06	3.563E-06
D	3.3	6.04	7300.	0.	0.	453.5	111.1	481.0	1.781E-06	1.873E-06	1.781E-06
D	5.6	2.56	7300.	0.	0.	453.5	111.1	456.4	1.126E-06	1.124E-06	1.124E-06
D	8.2	0.14	7300.	0.	0.	453.5	111.1	453.5	7.657E-07	7.595E-07	7.595E-07
E	0.2	0.10	7300.	0.	0.	322.5	67.5	410.0	5.173E-05	6.456E-05	5.173E-05
E	1.6	13.64	7300.	0.	0.	322.5	67.5	410.0	7.390E-06	9.223E-06	7.390E-06
E	3.3	14.99	7300.	0.	0.	322.5	67.5	357.4	3.956E-06	4.304E-06	3.956E-06
E	5.6	1.76	7300.	0.	0.	322.5	67.5	325.9	2.603E-06	2.582E-06	2.582E-06
F	0.2	0.12	7300.	0.	0.	222.6	40.9	313.3	1.117E-04	1.504E-04	1.117E-04
F	1.6	15.58	7300.	0.	0.	222.6	40.9	313.3	1.595E-05	2.148E-05	1.595E-05
F	3.3	8.70	7300.	0.	0.	222.6	40.9	255.8	9.119E-06	1.002E-05	9.119E-06
F	5.6	0.10	7300.	0.	0.	222.6	40.9	225.6	6.202E-06	6.015E-06	6.015E-06
G	0.2	0.13	7300.	0.	0.	153.6	24.8	257.9	2.237E-04	3.389E-04	2.237E-04
G	1.6	16.99	7300.	0.	0.	153.6	24.8	257.9	3.195E-05	4.842E-05	3.195E-05
G	3.3	8.77	7300.	0.	0.	153.6	24.8	187.1	2.056E-05	2.260E-05	2.056E-05
G	5.6	0.03	7300.	0.	0.	153.6	24.8	156.4	1.476E-05	1.356E-05	1.356E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

ENE SECTOR BOUNDARY DISTANCE = 7300.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

2.237E-04	1.117E-04	5.173E-05	3.195E-05	2.494E-05	2.056E-05	1.595E-05	1.356E-05	9.119E-06	7.390E-06
0.135	0.251	0.348	17.341	17.349	26.122	41.699	41.734	50.437	64.080
0.00910	0.01698	0.02357	1.17380	1.17437	1.76819	2.82256	2.82490	3.41405	4.33750
6.015E-06	3.956E-06	3.563E-06	2.582E-06	1.781E-06	1.124E-06	8.459E-07	7.595E-07	3.947E-07	2.498E-07
64.184	79.173	82.800	84.561	90.606	93.161	93.300	93.438	94.163	94.370
4.34452	5.35915	5.60463	5.72386	6.13299	6.30599	6.31534	6.32469	6.37379	6.38781
2.368E-07	2.039E-07	1.166E-07	9.514E-08	6.995E-08	5.708E-08	3.857E-08			
95.130	95.372	96.822	98.169	98.998	99.965	100.000			
6.43925	6.45561	6.55380	6.64498	6.70109	6.76655	6.76889			

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED
CHI/Q WITH RESPECT TO WHEN THE WIND BLOWS
SEC/CUBIC METER THE TOTAL TIME INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 1.172
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 2.820
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 4.334
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 5.601
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 6.129
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(7)= 6.302

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
12	1	-8.40538	-13.33734	-1.31774

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 12  2     -10.35129 -14.74649  -1.93960
 12  3     -11.04582 -18.58338  -3.95059
 12  4     -11.81533 -21.89563  -5.88398
 12  5     -12.54483 -36.94700 -15.35505
 12  6     -13.23843 -63.53146 -32.57270
 12  7     -13.69861     NUMXQ(K)=  7
    1.101E-04              0.068              1.000
    7.116E-05              0.203              3.000
    5.723E-05              0.338              5.000
    4.179E-05              0.677             10.000
    3.435E-05              1.015             15.000
    2.871E-05              1.354             20.000
    2.418E-05              1.692             25.000
    2.093E-05              2.031             30.000
    1.846E-05              2.369             35.000
    1.652E-05              2.708             40.000
    1.398E-05              3.046             45.000
    1.161E-05              3.384             50.000
    9.784E-06              3.723             55.000
    8.347E-06              4.061             60.000
    7.103E-06              4.400             65.000
    5.771E-06              4.738             70.000
    4.744E-06              5.077             75.000
    3.939E-06              5.415             80.000
    2.916E-06              5.754             85.000
    1.876E-06              6.092             90.000

    4.809E-05              0.5                7.39

ANNUAL AVERAGE =    3.00E-07

K= 12      FIVEXQ(K)= 4.809E-05      FIVEPR(K)= 7.387
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE E SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 10.0 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.6	0.43	7300.	0.	0.	1000.0	1000.0	1000.0	2.039E-07	2.039E-07	2.039E-07
A	3.3	2.64	7300.	0.	0.	1000.0	1000.0	1000.0	9.517E-08	9.514E-08	9.514E-08
A	5.6	1.64	7300.	0.	0.	1000.0	1000.0	1000.0	5.710E-08	5.708E-08	5.708E-08
A	8.2	0.11	7300.	0.	0.	1000.0	1000.0	1000.0	3.858E-08	3.857E-08	3.857E-08
B	1.6	0.43	7300.	0.	0.	848.1	962.0	848.1	2.500E-07	2.498E-07	2.498E-07
B	3.3	1.81	7300.	0.	0.	848.1	962.0	848.1	1.166E-07	1.166E-07	1.166E-07
B	5.6	1.45	7300.	0.	0.	848.1	962.0	848.1	6.999E-08	6.995E-08	6.995E-08
B	8.2	0.06	7300.	0.	0.	848.1	962.0	848.1	4.729E-08	4.727E-08	4.727E-08
C	1.6	0.17	7300.	0.	0.	644.0	373.7	644.0	8.473E-07	8.459E-07	8.459E-07
C	3.3	1.19	7300.	0.	0.	644.0	373.7	644.0	3.954E-07	3.947E-07	3.947E-07
C	5.6	0.99	7300.	0.	0.	644.0	373.7	644.0	2.372E-07	2.368E-07	2.368E-07
C	8.2	0.09	7300.	0.	0.	644.0	373.7	644.0	1.603E-07	1.600E-07	1.600E-07
D	0.2	0.01	7300.	0.	0.	453.5	111.1	515.1	2.494E-05	2.810E-05	2.494E-05
D	1.6	3.46	7300.	0.	0.	453.5	111.1	515.1	3.563E-06	4.014E-06	3.563E-06
D	3.3	8.42	7300.	0.	0.	453.5	111.1	481.0	1.781E-06	1.873E-06	1.781E-06
D	5.6	6.06	7300.	0.	0.	453.5	111.1	456.4	1.126E-06	1.124E-06	1.124E-06
D	8.2	1.22	7300.	0.	0.	453.5	111.1	453.5	7.657E-07	7.595E-07	7.595E-07
E	0.2	0.09	7300.	0.	0.	322.5	67.5	410.0	5.173E-05	6.456E-05	5.173E-05
E	1.6	12.70	7300.	0.	0.	322.5	67.5	410.0	7.390E-06	9.223E-06	7.390E-06
E	3.3	18.93	7300.	0.	0.	322.5	67.5	357.4	3.956E-06	4.304E-06	3.956E-06
E	5.6	3.49	7300.	0.	0.	322.5	67.5	325.9	2.603E-06	2.582E-06	2.582E-06
E	8.2	0.17	7300.	0.	0.	322.5	67.5	322.5	1.778E-06	1.745E-06	1.745E-06
F	0.2	0.11	7300.	0.	0.	222.6	40.9	313.3	1.117E-04	1.504E-04	1.117E-04
F	1.6	14.17	7300.	0.	0.	222.6	40.9	313.3	1.595E-05	2.148E-05	1.595E-05
F	3.3	6.04	7300.	0.	0.	222.6	40.9	255.8	9.119E-06	1.002E-05	9.119E-06
G	0.2	0.10	7300.	0.	0.	153.6	24.8	257.9	2.237E-04	3.389E-04	2.237E-04
G	1.6	12.04	7300.	0.	0.	153.6	24.8	257.9	3.195E-05	4.842E-05	3.195E-05
G	3.3	2.01	7300.	0.	0.	153.6	24.8	187.1	2.056E-05	2.260E-05	2.056E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

E SECTOR BOUNDARY DISTANCE = 7300.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

2.237E-04	1.117E-04	5.173E-05	3.195E-05	2.494E-05	2.056E-05	1.595E-05	9.119E-06	7.390E-06	3.956E-06
0.095	0.201	0.292	12.336	12.344	14.356	28.526	34.563	47.259	66.190
0.00786	0.01660	0.02407	1.01766	1.01832	1.18431	2.35324	2.85121	3.89858	5.46027
3.563E-06	2.582E-06	1.781E-06	1.745E-06	1.124E-06	8.459E-07	7.595E-07	3.947E-07	2.498E-07	2.368E-07
69.648	73.134	81.551	81.721	87.785	87.955	89.174	90.364	90.789	91.781
5.74549	6.03305	6.72740	6.74143	7.24173	7.25576	7.35628	7.45448	7.48954	7.57137
2.039E-07	1.600E-07	1.166E-07	9.514E-08	6.995E-08	5.708E-08	4.727E-08	3.857E-08		
92.206	92.292	94.105	96.741	98.186	99.830	99.887	100.000		
7.60644	7.61345	7.76307	7.98050	8.09973	8.23532	8.24000	8.24935		

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 1.016
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 2.351
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 3.895
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 5.456
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 5.742
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(7)= 6.724
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(8)= 7.238
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(9)= 8.232

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
13	1	-8.40538	-13.44553	-1.33360
13	2	-10.35129	-15.17515	-2.07906
13	3	-11.04582	-17.89402	-3.44798
13	4	-11.81533	-18.66356	-3.88448
13	5	-12.44017	-19.07274	-4.13988
13	6	-12.54483	-26.19342	-8.65569
13	7	-13.23843	-31.17334	-11.98294
13	8	-13.69861	-77.01177	-43.41573
13	9	-16.67879	NUMXQ(K)= 9	

9.627E-05	0.082	1.000
6.145E-05	0.247	3.000
4.908E-05	0.412	5.000
3.545E-05	0.825	10.000
2.737E-05	1.237	15.000
2.163E-05	1.650	20.000
1.790E-05	2.062	25.000
1.482E-05	2.475	30.000
1.177E-05	2.887	35.000
9.601E-06	3.300	40.000
7.987E-06	3.712	45.000
6.676E-06	4.125	50.000
5.607E-06	4.537	55.000
4.767E-06	4.950	60.000
4.096E-06	5.362	65.000
3.486E-06	5.775	70.000
2.581E-06	6.187	75.000
1.940E-06	6.599	80.000
1.376E-06	7.012	85.000
6.354E-07	7.424	90.000
4.495E-05	0.5	6.06

ANNUAL AVERAGE = 2.98E-07

K= 13 FIVEXQ(K)= 4.495E-05 FIVEPR(K)= 6.061

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE ESE SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 10.0 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.6	0.39	7300.	0.	0.	1000.0	1000.0	1000.0	2.039E-07	2.039E-07	2.039E-07
A	3.3	2.50	7300.	0.	0.	1000.0	1000.0	1000.0	9.517E-08	9.514E-08	9.514E-08
A	5.6	0.87	7300.	0.	0.	1000.0	1000.0	1000.0	5.710E-08	5.708E-08	5.708E-08
A	8.2	0.19	7300.	0.	0.	1000.0	1000.0	1000.0	3.858E-08	3.857E-08	3.857E-08
B	1.6	0.29	7300.	0.	0.	848.1	962.0	848.1	2.500E-07	2.498E-07	2.498E-07
B	3.3	1.71	7300.	0.	0.	848.1	962.0	848.1	1.166E-07	1.166E-07	1.166E-07
B	5.6	1.71	7300.	0.	0.	848.1	962.0	848.1	6.999E-08	6.995E-08	6.995E-08
B	8.2	0.39	7300.	0.	0.	848.1	962.0	848.1	4.729E-08	4.727E-08	4.727E-08
B	10.7	0.02	7300.	0.	0.	848.1	962.0	848.1	3.645E-08	3.643E-08	3.643E-08
C	1.6	0.17	7300.	0.	0.	644.0	373.7	644.0	8.473E-07	8.459E-07	8.459E-07
C	3.3	0.89	7300.	0.	0.	644.0	373.7	644.0	3.954E-07	3.947E-07	3.947E-07
C	5.6	1.28	7300.	0.	0.	644.0	373.7	644.0	2.372E-07	2.368E-07	2.368E-07
C	8.2	0.29	7300.	0.	0.	644.0	373.7	644.0	1.603E-07	1.600E-07	1.600E-07
D	0.2	0.01	7300.	0.	0.	453.5	111.1	515.1	2.494E-05	2.810E-05	2.494E-05
D	1.6	3.08	7300.	0.	0.	453.5	111.1	515.1	3.563E-06	4.014E-06	3.563E-06
D	3.3	10.41	7300.	0.	0.	453.5	111.1	481.0	1.781E-06	1.873E-06	1.781E-06
D	5.6	13.85	7300.	0.	0.	453.5	111.1	456.4	1.126E-06	1.124E-06	1.124E-06
D	8.2	1.37	7300.	0.	0.	453.5	111.1	453.5	7.657E-07	7.595E-07	7.595E-07
D	10.7	0.02	7300.	0.	0.	453.5	111.1	453.5	5.902E-07	5.854E-07	5.854E-07
E	0.2	0.09	7300.	0.	0.	322.5	67.5	410.0	5.173E-05	6.456E-05	5.173E-05
E	1.6	11.99	7300.	0.	0.	322.5	67.5	410.0	7.390E-06	9.223E-06	7.390E-06
E	3.3	24.18	7300.	0.	0.	322.5	67.5	357.4	3.956E-06	4.304E-06	3.956E-06
E	5.6	4.65	7300.	0.	0.	322.5	67.5	325.9	2.603E-06	2.582E-06	2.582E-06
E	8.2	0.19	7300.	0.	0.	322.5	67.5	322.5	1.778E-06	1.745E-06	1.745E-06
F	0.2	0.07	7300.	0.	0.	222.6	40.9	313.3	1.117E-04	1.504E-04	1.117E-04
F	1.6	10.02	7300.	0.	0.	222.6	40.9	313.3	1.595E-05	2.148E-05	1.595E-05
F	3.3	3.28	7300.	0.	0.	222.6	40.9	255.8	9.119E-06	1.002E-05	9.119E-06
F	5.6	0.02	7300.	0.	0.	222.6	40.9	225.6	6.202E-06	6.015E-06	6.015E-06
G	0.2	0.04	7300.	0.	0.	153.6	24.8	257.9	2.237E-04	3.389E-04	2.237E-04
G	1.6	5.64	7300.	0.	0.	153.6	24.8	257.9	3.195E-05	4.842E-05	3.195E-05
G	3.3	0.39	7300.	0.	0.	153.6	24.8	187.1	2.056E-05	2.260E-05	2.056E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

ESE SECTOR BOUNDARY DISTANCE = 7300.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

2.237E-04	1.117E-04	5.173E-05	3.195E-05	2.494E-05	2.056E-05	1.595E-05	9.119E-06	7.390E-06	6.015E-06
0.045	0.119	0.205	5.841	5.848	6.234	16.253	19.529	31.524	31.548
0.00433	0.01160	0.01990	0.56696	0.56765	0.60506	1.57761	1.89556	3.05982	3.06216
3.956E-06	3.563E-06	2.582E-06	1.781E-06	1.745E-06	1.124E-06	8.459E-07	7.595E-07	5.854E-07	3.947E-07
55.730	58.813	63.462	73.867	74.060	87.909	88.077	89.450	89.474	90.366
5.40938	5.70863	6.15983	7.16979	7.18850	8.53277	8.54914	8.68239	8.68473	8.77123
2.498E-07	2.368E-07	2.039E-07	1.600E-07	1.166E-07	9.514E-08	6.995E-08	5.708E-08	4.727E-08	3.857E-08
90.655	91.931	92.317	92.606	94.316	96.821	98.531	99.398	99.783	99.976
8.79929	8.92319	8.96060	8.98866	9.15464	9.39778	9.56377	9.64794	9.68534	9.70404
3.643E-08									
100.000									
9.70638									

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED

CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 0.566
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 1.576
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 5.406
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 5.705
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 8.529

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(7)= 8.679

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
14	1	-8.40538	-13.88919	-1.39701
14	2	-10.35129	-14.95571	-1.81815
14	3	-11.04582	-16.56041	-2.56435
14	4	-12.44017	-18.74070	-3.92132
14	5	-12.54483	-21.23772	-5.50167
14	6	-13.69861	-70.06627	-41.13431
14	7	-14.09066	NUMXQ(K)= 7	

7.054E-05	0.097	1.000
4.378E-05	0.291	3.000
3.446E-05	0.485	5.000
2.243E-05	0.971	10.000
1.690E-05	1.456	15.000
1.286E-05	1.941	20.000
1.012E-05	2.427	25.000
8.271E-06	2.912	30.000
6.938E-06	3.397	35.000
5.935E-06	3.883	40.000
5.154E-06	4.368	45.000
4.531E-06	4.853	50.000
4.023E-06	5.339	55.000
3.373E-06	5.824	60.000
2.700E-06	6.309	65.000
2.190E-06	6.794	70.000
1.796E-06	7.280	75.000
1.488E-06	7.765	80.000
1.243E-06	8.250	85.000
3.397E-05	0.5	5.15

ANNUAL AVERAGE = 2.58E-07

K= 14 FIVEXQ(K)= 3.397E-05 FIVEPR(K)= 5.151

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE SE SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 10.0 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.6	0.49	7300.	0.	0.	1000.0	1000.0	1000.0	2.039E-07	2.039E-07	2.039E-07
A	3.3	1.58	7300.	0.	0.	1000.0	1000.0	1000.0	9.517E-08	9.514E-08	9.514E-08
A	5.6	0.51	7300.	0.	0.	1000.0	1000.0	1000.0	5.710E-08	5.708E-08	5.708E-08
A	8.2	0.06	7300.	0.	0.	1000.0	1000.0	1000.0	3.858E-08	3.857E-08	3.857E-08
B	1.6	0.18	7300.	0.	0.	848.1	962.0	848.1	2.500E-07	2.498E-07	2.498E-07
B	3.3	1.40	7300.	0.	0.	848.1	962.0	848.1	1.166E-07	1.166E-07	1.166E-07
B	5.6	1.83	7300.	0.	0.	848.1	962.0	848.1	6.999E-08	6.995E-08	6.995E-08
B	8.2	0.43	7300.	0.	0.	848.1	962.0	848.1	4.729E-08	4.727E-08	4.727E-08
C	1.6	0.18	7300.	0.	0.	644.0	373.7	644.0	8.473E-07	8.459E-07	8.459E-07
C	3.3	0.94	7300.	0.	0.	644.0	373.7	644.0	3.954E-07	3.947E-07	3.947E-07
C	5.6	1.64	7300.	0.	0.	644.0	373.7	644.0	2.372E-07	2.368E-07	2.368E-07
C	8.2	0.41	7300.	0.	0.	644.0	373.7	644.0	1.603E-07	1.600E-07	1.600E-07
D	0.2	0.01	7300.	0.	0.	453.5	111.1	515.1	2.494E-05	2.810E-05	2.494E-05
D	1.6	3.94	7300.	0.	0.	453.5	111.1	515.1	3.563E-06	4.014E-06	3.563E-06
D	3.3	15.18	7300.	0.	0.	453.5	111.1	481.0	1.781E-06	1.873E-06	1.781E-06
D	5.6	18.92	7300.	0.	0.	453.5	111.1	456.4	1.126E-06	1.124E-06	1.124E-06
D	8.2	3.47	7300.	0.	0.	453.5	111.1	453.5	7.657E-07	7.595E-07	7.595E-07
E	0.2	0.09	7300.	0.	0.	322.5	67.5	410.0	5.173E-05	6.456E-05	5.173E-05
E	1.6	12.49	7300.	0.	0.	322.5	67.5	410.0	7.390E-06	9.223E-06	7.390E-06
E	3.3	19.45	7300.	0.	0.	322.5	67.5	357.4	3.956E-06	4.304E-06	3.956E-06
E	5.6	5.27	7300.	0.	0.	322.5	67.5	325.9	2.603E-06	2.582E-06	2.582E-06
E	8.2	0.18	7300.	0.	0.	322.5	67.5	322.5	1.778E-06	1.745E-06	1.745E-06
F	0.2	0.05	7300.	0.	0.	222.6	40.9	313.3	1.117E-04	1.504E-04	1.117E-04
F	1.6	6.79	7300.	0.	0.	222.6	40.9	313.3	1.595E-05	2.148E-05	1.595E-05
F	3.3	1.87	7300.	0.	0.	222.6	40.9	255.8	9.119E-06	1.002E-05	9.119E-06
F	5.6	0.02	7300.	0.	0.	222.6	40.9	225.6	6.202E-06	6.015E-06	6.015E-06
G	0.2	0.02	7300.	0.	0.	153.6	24.8	257.9	2.237E-04	3.389E-04	2.237E-04
G	1.6	2.44	7300.	0.	0.	153.6	24.8	257.9	3.195E-05	4.842E-05	3.195E-05
G	3.3	0.14	7300.	0.	0.	153.6	24.8	187.1	2.056E-05	2.260E-05	2.056E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

SE SECTOR BOUNDARY DISTANCE = 7300.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

2.237E-04	1.117E-04	5.173E-05	3.195E-05	2.494E-05	2.056E-05	1.595E-05	9.119E-06	7.390E-06	6.015E-06
0.019	0.070	0.159	2.601	2.610	2.753	9.544	11.411	23.905	23.926
0.00220	0.00798	0.01814	0.29635	0.29738	0.31375	1.08758	1.30033	2.72409	2.72643
3.956E-06	3.563E-06	2.582E-06	1.781E-06	1.745E-06	1.124E-06	8.459E-07	7.595E-07	3.947E-07	2.498E-07
43.375	47.314	52.587	67.769	67.954	86.870	87.054	90.522	91.465	91.650
4.94273	5.39160	5.99243	7.72245	7.74349	9.89901	9.92005	10.31515	10.42269	10.44373
2.368E-07	2.039E-07	1.600E-07	1.166E-07	9.514E-08	6.995E-08	5.708E-08	4.727E-08	3.857E-08	
93.291	93.784	94.194	95.589	97.169	98.995	99.508	99.938	100.000	
10.63076	10.68687	10.73363	10.89260	11.07262	11.28069	11.33914	11.38823	11.39524	

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED
CHI/Q WITH RESPECT TO WHEN THE WIND BLOWS
SEC/CUBIC METER THE TOTAL TIME INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 0.296
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 1.086
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 2.721
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 4.939
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 5.388
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(7)= 9.896
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(8)= 10.312

K I XQSAVE(K,I) XQINT(K,I) XQSLOP(K,I)

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 15  1      -8.40538 -14.36887  -1.45979
 15  2     -10.35129 -14.53344  -1.51958
 15  3     -11.04582 -15.79721  -2.07021
 15  4     -11.81533 -16.22378  -2.29199
 15  5     -12.44017 -16.51185  -2.46650
 15  6     -12.54483 -18.32850  -3.59600
 15  7     -13.69861 -35.13582 -16.65015
 15  8     -14.09066     NUMXQ(K)=  8
    4.946E-05              0.114              1.000
    2.974E-05              0.342              3.000
    2.282E-05              0.570              5.000
    1.538E-05              1.140             10.000
    1.106E-05              1.709             15.000
    8.655E-06              2.279             20.000
    7.067E-06              2.849             25.000
    5.871E-06              3.419             30.000
    4.994E-06              3.988             35.000
    4.325E-06              4.558             40.000
    3.786E-06              5.128             45.000
    3.229E-06              5.698             50.000
    2.718E-06              6.267             55.000
    2.314E-06              6.837             60.000
    1.990E-06              7.407             65.000
    1.727E-06              7.977             70.000
    1.509E-06              8.546             75.000
    1.328E-06              9.116             80.000
    1.175E-06              9.686             85.000
    8.026E-07             10.256             90.000

    2.446E-05              0.5                4.39

ANNUAL AVERAGE =   2.42E-07

K= 15     FIVEXQ(K)= 2.446E-05     FIVEPR(K)= 4.388
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE SSE SECTOR.

STABILITY CLASS	WINDSPEED AT 10.0 METERS METER/SEC	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.6	0.84	7300.	0.	0.	1000.0	1000.0	1000.0	2.039E-07	2.039E-07	2.039E-07
A	3.3	4.22	7300.	0.	0.	1000.0	1000.0	1000.0	9.517E-08	9.514E-08	9.514E-08
A	5.6	1.88	7300.	0.	0.	1000.0	1000.0	1000.0	5.710E-08	5.708E-08	5.708E-08
A	8.2	0.02	7300.	0.	0.	1000.0	1000.0	1000.0	3.858E-08	3.857E-08	3.857E-08
B	1.6	0.79	7300.	0.	0.	848.1	962.0	848.1	2.500E-07	2.498E-07	2.498E-07
B	3.3	3.47	7300.	0.	0.	848.1	962.0	848.1	1.166E-07	1.166E-07	1.166E-07
B	5.6	3.51	7300.	0.	0.	848.1	962.0	848.1	6.999E-08	6.995E-08	6.995E-08
B	8.2	0.19	7300.	0.	0.	848.1	962.0	848.1	4.729E-08	4.727E-08	4.727E-08
C	1.6	0.69	7300.	0.	0.	644.0	373.7	644.0	8.473E-07	8.459E-07	8.459E-07
C	3.3	2.61	7300.	0.	0.	644.0	373.7	644.0	3.954E-07	3.947E-07	3.947E-07
C	5.6	2.61	7300.	0.	0.	644.0	373.7	644.0	2.372E-07	2.368E-07	2.368E-07
C	8.2	0.33	7300.	0.	0.	644.0	373.7	644.0	1.603E-07	1.600E-07	1.600E-07
D	0.2	0.01	7300.	0.	0.	453.5	111.1	515.1	2.494E-05	2.810E-05	2.494E-05
D	1.6	4.97	7300.	0.	0.	453.5	111.1	515.1	3.563E-06	4.014E-06	3.563E-06
D	3.3	19.27	7300.	0.	0.	453.5	111.1	481.0	1.781E-06	1.873E-06	1.781E-06
D	5.6	16.55	7300.	0.	0.	453.5	111.1	456.4	1.126E-06	1.124E-06	1.124E-06
D	8.2	2.76	7300.	0.	0.	453.5	111.1	453.5	7.657E-07	7.595E-07	7.595E-07
D	24.5	0.06	7300.	0.	0.	453.5	111.1	453.5	2.575E-07	2.555E-07	2.555E-07
E	0.2	0.06	7300.	0.	0.	322.5	67.5	410.0	5.173E-05	6.456E-05	5.173E-05
E	1.6	8.92	7300.	0.	0.	322.5	67.5	410.0	7.390E-06	9.223E-06	7.390E-06
E	3.3	15.90	7300.	0.	0.	322.5	67.5	357.4	3.956E-06	4.304E-06	3.956E-06
E	5.6	4.41	7300.	0.	0.	322.5	67.5	325.9	2.603E-06	2.582E-06	2.582E-06
E	8.2	0.21	7300.	0.	0.	322.5	67.5	322.5	1.778E-06	1.745E-06	1.745E-06
E	10.7	0.02	7300.	0.	0.	322.5	67.5	322.5	1.370E-06	1.345E-06	1.345E-06
E	24.5	0.13	7300.	0.	0.	322.5	67.5	322.5	5.980E-07	5.869E-07	5.869E-07
F	0.2	0.03	7300.	0.	0.	222.6	40.9	313.3	1.117E-04	1.504E-04	1.117E-04
F	1.6	3.39	7300.	0.	0.	222.6	40.9	313.3	1.595E-05	2.148E-05	1.595E-05
F	3.3	0.79	7300.	0.	0.	222.6	40.9	255.8	9.119E-06	1.002E-05	9.119E-06
F	5.6	0.04	7300.	0.	0.	222.6	40.9	225.6	6.202E-06	6.015E-06	6.015E-06
G	0.2	0.01	7300.	0.	0.	153.6	24.8	257.9	2.237E-04	3.389E-04	2.237E-04
G	1.6	1.21	7300.	0.	0.	153.6	24.8	257.9	3.195E-05	4.842E-05	3.195E-05
G	3.3	0.06	7300.	0.	0.	153.6	24.8	187.1	2.056E-05	2.260E-05	2.056E-05
G	5.6	0.02	7300.	0.	0.	153.6	24.8	156.4	1.476E-05	1.356E-05	1.356E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

SSE SECTOR BOUNDARY DISTANCE = 7300.0 METERS

LATERAL PLUME MEANDER/BUILDING WAKE CREDIT ALLOWED
AS A FUNCTION OF DOWNWIND DISTANCE.
MEANDER CREDIT IS FOR WINDSPEEDS LESS THAN 6 MPS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

2.237E-04	1.117E-04	5.173E-05	3.195E-05	2.494E-05	2.056E-05	1.595E-05	1.356E-05	9.119E-06	7.390E-06
0.010	0.035	0.099	1.311	1.322	1.385	4.770	4.791	5.585	14.508
0.00107	0.00390	0.01102	0.14662	0.14790	0.15492	0.53365	0.53599	0.62483	1.62310
6.015E-06	3.956E-06	3.563E-06	2.582E-06	1.781E-06	1.745E-06	1.345E-06	1.124E-06	8.459E-07	7.595E-07
14.550	30.453	35.427	39.836	59.104	59.313	59.333	75.884	76.574	79.332
1.62777	3.40689	3.96331	4.45660	6.61211	6.63549	6.63783	8.48942	8.56657	8.87517
5.869E-07	3.947E-07	2.555E-07	2.498E-07	2.368E-07	2.039E-07	1.600E-07	1.166E-07	9.514E-08	6.995E-08
79.458	82.070	82.133	82.927	85.539	86.375	86.709	90.178	94.399	97.910
8.88919	9.18143	9.18844	9.27728	9.56951	9.66303	9.70043	10.08852	10.56077	10.95353
5.708E-08	4.727E-08	3.857E-08							
99.791	99.979	100.000							
11.16394	11.18498	11.18732							

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED

CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 0.146
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(3)= 0.533
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(4)= 1.621
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(5)= 3.960
HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(6)= 6.608

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HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 7)=   8.486
HANDCHECK GRAPH:  SLOPE LT -1.0 FOR LOW PERCENTAGES.  XSAVE( 8)=   8.872

  K  I   XQSAVE(K,I)  XQINT(K,I) XQSLOP(K,I)
 16  1      -8.40538 -14.89552  -1.52744
 16  2     -10.35129 -15.25439  -1.64807
 16  3     -11.04582 -15.78638  -1.85640
 16  4     -11.81533 -15.88159  -1.90091
 16  5     -12.54483 -17.42011  -2.77738
 16  6     -13.23843 -18.46740  -3.47297
 16  7     -13.69861 -35.74646 -16.05679
 16  8     -14.09066     NUMXQ(K)=  8
    3.621E-05              0.112              1.000
    2.068E-05              0.336              3.000
    1.547E-05              0.559              5.000
    9.678E-06              1.119             10.000
    7.205E-06              1.678             15.000
    5.754E-06              2.237             20.000
    4.799E-06              2.797             25.000
    4.116E-06              3.356             30.000
    3.601E-06              3.916             35.000
    3.042E-06              4.475             40.000
    2.600E-06              5.034             45.000
    2.252E-06              5.594             50.000
    1.972E-06              6.153             55.000
    1.733E-06              6.712             60.000
    1.500E-06              7.272             65.000
    1.308E-06              7.831             70.000
    1.149E-06              8.390             75.000

    1.656E-05              0.5                4.47

ANNUAL AVERAGE =   1.76E-07

K= 16     FIVEXQ(K)= 1.656E-05     FIVEPR(K)= 4.469
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

PARAMETER VALUES FOR THE CHI/Q CALCULATIONS FOR THE ALL SECTOR.

STABILITY CLASS	WINDSPEED METER/SEC AT 10.0 METERS	FREQUENCY PERCENT	DISTANCE METERS	TERRAIN HT METERS	EFF PLUME HT METERS	SIGMA-Y METERS	SIGMA-Z METERS	MEANDER-SY METERS	** CHI/Q VALUES (SEC/CUBIC METER) MEANDER	BLDG WAKE CA=1292.SQ.METERS	USED
A	1.6	2.07	7300.	0.	0.	1000.0	1000.0	1000.0	2.039E-07	2.039E-07	2.039E-07
A	3.3	3.09	7300.	0.	0.	1000.0	1000.0	1000.0	9.517E-08	9.514E-08	9.514E-08
A	5.6	1.12	7300.	0.	0.	1000.0	1000.0	1000.0	5.710E-08	5.708E-08	5.708E-08
A	8.2	0.09	7300.	0.	0.	1000.0	1000.0	1000.0	3.858E-08	3.857E-08	3.857E-08
A	24.5	0.01	7300.	0.	0.	1000.0	1000.0	1000.0	1.298E-08	1.297E-08	1.297E-08
B	1.6	1.14	7300.	0.	0.	848.1	962.0	848.1	2.500E-07	2.498E-07	2.498E-07
B	3.3	2.32	7300.	0.	0.	848.1	962.0	848.1	1.166E-07	1.166E-07	1.166E-07
B	5.6	1.66	7300.	0.	0.	848.1	962.0	848.1	6.999E-08	6.995E-08	6.995E-08
B	8.2	0.19	7300.	0.	0.	848.1	962.0	848.1	4.729E-08	4.727E-08	4.727E-08
B	10.7	0.00	7300.	0.	0.	848.1	962.0	848.1	3.645E-08	3.643E-08	3.643E-08
B	24.5	0.00	7300.	0.	0.	848.1	962.0	848.1	1.591E-08	1.590E-08	1.590E-08
C	1.6	0.70	7300.	0.	0.	644.0	373.7	644.0	8.473E-07	8.459E-07	8.459E-07
C	3.3	1.33	7300.	0.	0.	644.0	373.7	644.0	3.954E-07	3.947E-07	3.947E-07
C	5.6	1.13	7300.	0.	0.	644.0	373.7	644.0	2.372E-07	2.368E-07	2.368E-07
C	8.2	0.15	7300.	0.	0.	644.0	373.7	644.0	1.603E-07	1.600E-07	1.600E-07
C	10.7	0.00	7300.	0.	0.	644.0	373.7	644.0	1.236E-07	1.234E-07	1.234E-07
D	0.2	0.02	7300.	0.	0.	453.5	111.1	453.5	2.833E-05	2.810E-05	2.810E-05
D	1.6	8.11	7300.	0.	0.	453.5	111.1	453.5	4.047E-06	4.014E-06	4.014E-06
D	3.3	12.97	7300.	0.	0.	453.5	111.1	453.5	1.889E-06	1.873E-06	1.873E-06
D	5.6	8.31	7300.	0.	0.	453.5	111.1	453.5	1.133E-06	1.124E-06	1.124E-06
D	8.2	1.17	7300.	0.	0.	453.5	111.1	453.5	7.657E-07	7.595E-07	7.595E-07
D	10.7	0.01	7300.	0.	0.	453.5	111.1	453.5	5.902E-07	5.854E-07	5.854E-07
D	24.5	0.01	7300.	0.	0.	453.5	111.1	453.5	2.575E-07	2.555E-07	2.555E-07
E	0.2	0.13	7300.	0.	0.	322.5	67.5	322.5	6.578E-05	6.456E-05	6.456E-05
E	1.6	17.70	7300.	0.	0.	322.5	67.5	322.5	9.397E-06	9.223E-06	9.223E-06
E	3.3	17.17	7300.	0.	0.	322.5	67.5	322.5	4.385E-06	4.304E-06	4.304E-06
E	5.6	3.18	7300.	0.	0.	322.5	67.5	322.5	2.631E-06	2.582E-06	2.582E-06
E	8.2	0.17	7300.	0.	0.	322.5	67.5	322.5	1.778E-06	1.745E-06	1.745E-06
E	10.7	0.00	7300.	0.	0.	322.5	67.5	322.5	1.370E-06	1.345E-06	1.345E-06
E	24.5	0.02	7300.	0.	0.	322.5	67.5	322.5	5.980E-07	5.869E-07	5.869E-07
F	0.2	0.06	7300.	0.	0.	222.6	40.9	222.6	1.572E-04	1.504E-04	1.504E-04
F	1.6	8.14	7300.	0.	0.	222.6	40.9	222.6	2.245E-05	2.148E-05	2.148E-05
F	3.3	2.33	7300.	0.	0.	222.6	40.9	222.6	1.048E-05	1.002E-05	1.002E-05
F	5.6	0.02	7300.	0.	0.	222.6	40.9	222.6	6.287E-06	6.015E-06	6.015E-06

G	0.2	0.04	7300.	0.	0.	153.6	24.8	153.6	3.755E-04	3.389E-04	3.389E-04
G	1.6	4.43	7300.	0.	0.	153.6	24.8	153.6	5.364E-05	4.842E-05	4.842E-05
G	3.3	1.01	7300.	0.	0.	153.6	24.8	153.6	2.503E-05	2.260E-05	2.260E-05
G	5.6	0.00	7300.	0.	0.	153.6	24.8	153.6	1.502E-05	1.356E-05	1.356E-05

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:
DIRECTION-INDEPENDENT (S.R.P 2.3.4) MODEL.
MINIMUM BOUNDARY DISTANCE = 7300.0 METERS.
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

3.389E-04	1.504E-04	6.456E-05	4.842E-05	2.810E-05	2.260E-05	2.148E-05	1.356E-05	1.002E-05	9.223E-06
0.035	0.096	0.222	4.652	4.671	5.681	13.817	13.821	16.148	33.845
0.03507	0.09585	0.22210	4.65236	4.67106	5.68102	13.81680	13.82148	16.14766	33.84533
6.015E-06	4.304E-06	4.014E-06	2.582E-06	1.873E-06	1.745E-06	1.345E-06	1.124E-06	8.459E-07	7.595E-07
33.864	51.038	59.146	62.328	75.293	75.464	75.469	83.775	84.477	85.650
33.86403	51.03801	59.14574	62.32758	75.29340	75.46407	75.46874	83.77519	84.47655	85.65016
5.869E-07	5.854E-07	3.947E-07	2.555E-07	2.498E-07	2.368E-07	2.039E-07	1.600E-07	1.234E-07	1.166E-07
85.667	85.674	87.004	87.015	88.156	89.288	91.359	91.509	91.511	93.830
85.66653	85.67354	87.00378	87.01547	88.15635	89.28788	91.35922	91.50884	91.51118	93.83035
9.514E-08	6.995E-08	5.708E-08	4.727E-08	3.857E-08	3.643E-08	1.590E-08	1.297E-08		
96.916	98.581	99.698	99.892	99.986	99.988	99.991	100.000		
96.91634	98.58090	99.69840	99.89245	99.98596	99.98830	99.99063	99.99998		

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY
1.011E-04	1.000	1.000
6.089E-05	3.000	3.000
4.628E-05	5.000	5.000
2.882E-05	10.000	10.000
2.093E-05	15.000	15.000
1.624E-05	20.000	20.000
1.306E-05	25.000	25.000
1.074E-05	30.000	30.000

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 4.649

8.956E-06	35.000	35.000
7.541E-06	40.000	40.000
6.386E-06	45.000	45.000
5.424E-06	50.000	50.000
4.606E-06	55.000	55.000
3.868E-06	60.000	60.000
3.097E-06	65.000	65.000
2.450E-06	70.000	70.000
1.903E-06	75.000	75.000
1.434E-06	80.000	80.000
8.920E-07	85.000	85.000
2.948E-07	90.000	90.000
4.628E-05	5.0	5.00

K= 17 FIVEXQ(K)= 4.628E-05 FIVEPR(K)= 5.000

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

LOW POPULATION ZONE CALCULATIONS:

FIVE PERCENT OVERALL SITE LIMIT
BUILDING WAKE CREDIT ALLOWED: C= 0.5 A= 2584. D= 54.3
CORRECTION FACTORS USED IN THE ANNUAL AVERAGE CALCULATIONS.

BELOW ARE PRINTED THE ORDERED VALUES OF CHI/Q AND THE FREQUENCY WITH WHICH THAT VALUE IS REACHED OR EXCEEDED.
THE TOP NUMBER IS THE CHI/Q. THE MIDDLE NUMBER IS THE FREQUENCY NORMALIZED TO THIS SECTOR.
THE THIRD NUMBER IS THE FREQUENCY WITH RESPECT TO ALL TIME.

2.237E-04	1.117E-04	5.173E-05	3.195E-05	2.494E-05	2.056E-05	1.595E-05	1.356E-05	9.119E-06	7.390E-06
0.035	0.096	0.222	4.652	4.671	5.681	13.817	13.821	16.148	33.845
0.03507	0.09585	0.22210	4.65236	4.67106	5.68102	13.81680	13.82148	16.14766	33.84532
6.015E-06	3.956E-06	3.563E-06	2.582E-06	1.781E-06	1.745E-06	1.345E-06	1.124E-06	8.459E-07	7.595E-07
33.864	51.038	59.146	62.328	75.293	75.464	75.469	83.775	84.477	85.650
33.86403	51.03802	59.14575	62.32759	75.29342	75.46409	75.46876	83.77519	84.47657	85.65018
5.869E-07	5.854E-07	3.947E-07	2.555E-07	2.498E-07	2.368E-07	2.039E-07	1.600E-07	1.234E-07	1.166E-07
85.667	85.674	87.004	87.016	88.156	89.288	91.359	91.509	91.511	93.830
85.66654	85.67355	87.00379	87.01548	88.15636	89.28787	91.35921	91.50883	91.51116	93.83031
9.514E-08	6.995E-08	5.708E-08	4.727E-08	3.857E-08	3.643E-08	1.590E-08	1.297E-08		
96.916	98.581	99.698	99.892	99.986	99.988	99.991	100.000		
96.91631	98.58086	99.69836	99.89240	99.98589	99.98823	99.99056	99.99991		

X/Q PERCENTILES
(BASED ON THE UPPER ENVELOPE OF THE
ORDERED X/Q-FREQUENCY VALUES, AND AS
PLOTTED ON A LOG-NORMAL GRAPH.)

PERCENT OF TIME CHI/Q IS EQUALED OR EXCEEDED		
CHI/Q	WITH RESPECT TO	WHEN THE WIND BLOWS
SEC/CUBIC METER	THE TOTAL TIME	INTO THIS SECTOR ONLY

HANDCHECK GRAPH: SLOPE LT -1.0 FOR LOW PERCENTAGES. XSAVE(2)= 4.649

K	I	XQSAVE(K,I)	XQINT(K,I)	XQSLOP(K,I)
18	1	-8.40538	-12.26369	-1.13840
18	2	-10.35129	-12.27977	-1.14797
18	3	-12.54483	-12.19166	-1.52956
18	4	-13.69861	-9.25157	-4.51377
18	5	-15.40582	-14.40481	-0.73418
18	6	-17.07083	NUMXQ(K)= 6	

6.673E-05	1.000	1.000
4.018E-05	3.000	3.000
3.070E-05	5.000	5.000
2.023E-05	10.000	10.000
1.526E-05	15.000	15.000
1.220E-05	20.000	20.000
1.007E-05	25.000	25.000
8.476E-06	30.000	30.000
7.225E-06	35.000	35.000
6.210E-06	40.000	40.000
5.364E-06	45.000	45.000
4.645E-06	50.000	50.000
4.022E-06	55.000	55.000
3.445E-06	60.000	60.000
2.816E-06	65.000	65.000
2.276E-06	70.000	70.000
1.809E-06	75.000	75.000
1.400E-06	80.000	80.000
8.920E-07	85.000	85.000
2.948E-07	90.000	90.000
3.070E-05	5.0	5.00

K= 18 FIVEXQ(K)= 3.070E-05 FIVEPR(K)= 5.000

K	HIGHPR	PR	GRNDVT(K)
1	-3.35890	0.03913	7.16050
2	-2.03897	2.07263	3.52922
3	-3.42797	0.03041	3.23970
4	-3.29192	0.04976	2.96101
5	-3.12377	0.08928	3.59423
6	-3.21792	0.06457	3.74028
7	-3.35960	0.03904	4.91057
8	-3.37633	0.03673	6.63198
9	-3.37593	0.03679	8.27142
10	-3.30341	0.04776	4.16751
11	-2.93591	0.16629	4.48639
12	-2.57624	0.49942	6.76889
13	-2.62672	0.43107	8.24935
14	-2.82508	0.23636	9.70638
15	-3.03218	0.12140	11.39525
16	-3.24267	0.05922	11.18732

K	HOURS(K)	TOTHRS
1	3.42783	3.42783
2	181.56260	184.99040
3	2.66394	187.65440
4	4.35880	192.01320
5	7.82109	199.83420
6	5.65631	205.49060
7	3.41947	208.91000
8	3.21793	212.12800
9	3.22263	215.35060

10	4.18388	219.53450
11	14.56709	234.10160
12	43.74879	277.85030
13	37.76197	315.61230
14	20.70481	336.31710
15	10.63488	346.95200
16	5.18743	352.13940

K	FIVEXQ	SVANN	SLTIME	TIMINT	I	TIME	XQT
1	1.447E-05	1.504E-07	-0.5446	-10.7658			
					1	8.0	-11.89830
					2	16.0	-12.27580
					3	72.0	-13.09494
					4	624.0	-14.27103
2	1.261E-05	9.865E-08	-0.5785	-10.8803			
					1	8.0	-12.08320
					2	16.0	-12.48416
					3	72.0	-13.35422
					4	624.0	-14.60340
3	1.247E-05	1.001E-07	-0.5754	-10.8936			
					1	8.0	-12.09012
					2	16.0	-12.48897
					3	72.0	-13.35445
					4	624.0	-14.59706
4	1.374E-05	9.602E-08	-0.5919	-10.7851			
					1	8.0	-12.01594
					2	16.0	-12.42624
					3	72.0	-13.31655
					4	624.0	-14.59482
5	1.898E-05	1.347E-07	-0.5901	-10.4630			
					1	8.0	-11.69008
					2	16.0	-12.09911
					3	72.0	-12.98666
					4	624.0	-14.26096
6	1.868E-05	1.269E-07	-0.5953	-10.4756			
					1	8.0	-11.71356
					2	16.0	-12.12622
					3	72.0	-13.02166
					4	624.0	-14.30729
7	1.478E-05	1.274E-07	-0.5669	-10.7292			
					1	8.0	-11.90813
					2	16.0	-12.30111
					3	72.0	-13.15384
					4	624.0	-14.37814
8	1.475E-05	1.488E-07	-0.5482	-10.7441			
					1	8.0	-11.88408
					2	16.0	-12.26408
					3	72.0	-13.08865
					4	624.0	-14.27254
9	1.534E-05	1.620E-07	-0.5427	-10.7089			
					1	8.0	-11.83749
					2	16.0	-12.21368
					3	72.0	-13.02999

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                                                    4   624.0    -14.20200
10 1.692E-05 1.143E-07    -0.5960   -10.5738
                                                    1     8.0    -11.81323
                                                    2    16.0    -12.22637
                                                    3    72.0    -13.12287
                                                    4   624.0    -14.41002
11 2.808E-05 1.588E-07    -0.6172   -10.0526
                                                    1     8.0    -11.33605
                                                    2    16.0    -11.76385
                                                    3    72.0    -12.69214
                                                    4   624.0    -14.02494
12 4.809E-05 3.000E-07    -0.6055    -9.5228
                                                    1     8.0    -10.78191
                                                    2    16.0    -11.20160
                                                    3    72.0    -12.11229
                                                    4   624.0    -13.41982
13 4.495E-05 2.981E-07    -0.5982    -9.5952
                                                    1     8.0    -10.83913
                                                    2    16.0    -11.25377
                                                    3    72.0    -12.15351
                                                    4   624.0    -13.44532
14 3.397E-05 2.581E-07    -0.5820    -9.8868
                                                    1     8.0    -11.09693
                                                    2    16.0    -11.50031
                                                    3    72.0    -12.37562
                                                    4   624.0    -13.63235
15 2.446E-05 2.418E-07    -0.5506   -10.2370
                                                    1     8.0    -11.38191
                                                    2    16.0    -11.76355
                                                    3    72.0    -12.59168
                                                    4   624.0    -13.78066
16 1.656E-05 1.756E-07    -0.5422   -10.6327
                                                    1     8.0    -11.76022
                                                    2    16.0    -12.13604
                                                    3    72.0    -12.95154
                                                    4   624.0    -14.12241
17 4.628E-05 3.000E-07    -0.6009    -9.5643
                                                    1     8.0    -10.81389
                                                    2    16.0    -11.23041
                                                    3    72.0    -12.13423
                                                    4   624.0    -13.43189
18 3.070E-05 3.000E-07    -0.5520   -10.0085
                                                    1     8.0    -11.15633
                                                    2    16.0    -11.53894
                                                    3    72.0    -12.36916
                                                    4   624.0    -13.56116
```

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

RELATIVE CONCENTRATION (X/Q) VALUES (SEC/CUBIC METER)
VERSUS
AVERAGING TIME

DOWNWIND SECTOR	DISTANCE (METERS)	0-2 HOURS	0-8 HOURS	8-24 HOURS	1-4 DAYS	4-30 DAYS	ANNUAL AVERAGE	HOURS PER YEAR MAX 0-2 HR X/Q IS EXCEEDED IN SECTOR	DOWNWIND SECTOR
S	7300.	1.45E-05	6.80E-06	4.66E-06	2.06E-06	6.34E-07	1.50E-07	3.4	S
SSW	7300.	1.26E-05	5.65E-06	3.79E-06	1.59E-06	4.55E-07	9.86E-08	181.6	SSW
SW	7300.	1.25E-05	5.61E-06	3.77E-06	1.59E-06	4.58E-07	1.00E-07	2.7	SW
WSW	7300.	1.37E-05	6.05E-06	4.01E-06	1.65E-06	4.59E-07	9.60E-08	4.4	WSW
W	7300.	1.90E-05	8.38E-06	5.56E-06	2.29E-06	6.41E-07	1.35E-07	7.8	W
WNW	7300.	1.87E-05	8.18E-06	5.42E-06	2.21E-06	6.12E-07	1.27E-07	5.7	WNW
NW	7300.	1.48E-05	6.74E-06	4.55E-06	1.94E-06	5.70E-07	1.27E-07	3.4	NW
NNW	7300.	1.48E-05	6.90E-06	4.72E-06	2.07E-06	6.33E-07	1.49E-07	3.2	NNW
N	7300.	1.53E-05	7.23E-06	4.96E-06	2.19E-06	6.79E-07	1.62E-07	3.2	N
NNE	7300.	1.69E-05	7.41E-06	4.90E-06	2.00E-06	5.52E-07	1.14E-07	4.2	NNE
NE	7300.	2.81E-05	1.19E-05	7.78E-06	3.08E-06	8.11E-07	1.59E-07	14.6	NE
ENE	7300.	4.81E-05	2.08E-05	1.37E-05	5.49E-06	1.49E-06	3.00E-07	43.7	ENE
E	7300.	4.50E-05	1.96E-05	1.30E-05	5.27E-06	1.45E-06	2.98E-07	37.8	E
ESE	7300.	3.40E-05	1.52E-05	1.01E-05	4.22E-06	1.20E-06	2.58E-07	20.7	ESE
SE	7300.	2.45E-05	1.14E-05	7.78E-06	3.40E-06	1.04E-06	2.42E-07	10.6	SE
SSE	7300.	1.66E-05	7.81E-06	5.36E-06	2.37E-06	7.36E-07	1.76E-07	5.2	SSE
MAX X/Q		4.81E-05				TOTAL HOURS AROUND SITE:		352.1	
SRP 2.3.4	7300.	4.63E-05	2.01E-05	1.33E-05	5.37E-06	1.47E-06	3.00E-07		
SITE LIMIT		3.07E-05	1.43E-05	9.74E-06	4.25E-06	1.29E-06	3.00E-07		

0.5 PERCENT X/Q TO AN INDIVIDUAL IS LIMITING.

NOTE: VALUES ON THIS PAGE ARE APPROXIMATIONS ONLY.
CHECK THE REASONABLENESS OF THE ENVELOPES
COMPUTED FOR THE 0-2 HOUR VALUES. FOR ANY
FAULTY ENVELOPES, ADJUST THE ABOVE VALUES.

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 01/28/03

PRINTOUT OF INPUT CARDS

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   1     00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000
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Peach Bottom
Joint Frequency Distribution
1984-1988
Tower 2
320' wind
316'-33' Delta T

	Wind Speed Category[1]	Wind Direction Category																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Calm	Total
1 (A)	1 (Calm)																	0.000	0.000
	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
	3	0.000	0.000	0.000	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.007
	4	0.000	0.005	0.023	0.023	0.035	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.094
	5	0.012	0.014	0.023	0.054	0.138	0.058	0.005	0.000	0.000	0.002	0.005	0.000	0.000	0.000	0.000	0.002		0.313
	6	0.002	0.007	0.026	0.042	0.101	0.094	0.023	0.009	0.005	0.005	0.005	0.000	0.002	0.007	0.000	0.000		0.327
	7	0.000	0.014	0.023	0.026	0.030	0.040	0.021	0.000	0.018	0.009	0.007	0.007	0.005	0.007	0.000	0.012		0.217
	8	0.000	0.002	0.005	0.030	0.019	0.007	0.021	0.000	0.009	0.007	0.000	0.014	0.030	0.018	0.007	0.009		0.178
	9	0.005	0.009	0.021	0.026	0.005	0.007	0.018	0.000	0.014	0.005	0.005	0.002	0.033	0.012	0.005	0.033		0.196
	10	0.002	0.005	0.000	0.002	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.005	0.023	0.005	0.000	0.002		0.047
	11	0.002	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.002	0.014	0.012	0.002	0.002		0.037
	Subtotal	0.021	0.056	0.122	0.203	0.334	0.217	0.087	0.009	0.044	0.028	0.021	0.030	0.108	0.059	0.014	0.061	0.000	1.417
2 (B)	1 (Calm)																	0.000	0.000
	2	0.000	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.005
	3	0.000	0.002	0.002	0.021	0.012	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.042
	4	0.002	0.016	0.012	0.019	0.049	0.012	0.002	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.002	0.000		0.117
	5	0.028	0.035	0.021	0.026	0.079	0.044	0.014	0.002	0.002	0.009	0.007	0.002	0.007	0.002	0.005	0.007		0.292
	6	0.002	0.026	0.026	0.042	0.014	0.049	0.026	0.009	0.009	0.009	0.009	0.005	0.007	0.012	0.002	0.016		0.264
	7	0.005	0.012	0.009	0.005	0.012	0.021	0.030	0.012	0.040	0.021	0.014	0.012	0.030	0.005	0.002	0.026		0.257
	8	0.007	0.000	0.007	0.002	0.007	0.000	0.021	0.014	0.033	0.012	0.014	0.018	0.023	0.019	0.007	0.035		0.217
	9	0.019	0.005	0.002	0.002	0.000	0.005	0.012	0.007	0.051	0.012	0.007	0.030	0.049	0.035	0.014	0.047		0.297
	10	0.002	0.007	0.000	0.000	0.000	0.002	0.002	0.002	0.014	0.002	0.002	0.005	0.026	0.026	0.012	0.014		0.119
	11	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.000	0.002	0.016	0.023	0.000	0.000		0.049
	Subtotal	0.069	0.105	0.084	0.117	0.173	0.133	0.112	0.047	0.153	0.068	0.054	0.072	0.161	0.124	0.044	0.147	0.000	1.660
3 (C)	1 (Calm)																	0.000	0.000
	2	0.000	0.005	0.005	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.012
	3	0.000	0.007	0.023	0.033	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.065
	4	0.009	0.016	0.026	0.037	0.072	0.040	0.005	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.002		0.210
	5	0.042	0.033	0.035	0.040	0.040	0.084	0.014	0.009	0.026	0.009	0.016	0.007	0.005	0.005	0.007	0.037		0.418
	6	0.061	0.028	0.019	0.026	0.023	0.049	0.061	0.030	0.047	0.030	0.021	0.009	0.037	0.014	0.019	0.052		0.558
	7	0.049	0.014	0.007	0.019	0.012	0.026	0.072	0.023	0.094	0.033	0.035	0.033	0.054	0.030	0.021	0.105		0.527
	8	0.019	0.019	0.000	0.007	0.005	0.007	0.035	0.028	0.087	0.040	0.026	0.035	0.026	0.049	0.042	0.101		0.524
	9	0.033	0.005	0.009	0.005	0.005	0.007	0.016	0.012	0.112	0.042	0.037	0.058	0.112	0.105	0.081	0.173		0.790
	10	0.009	0.002	0.000	0.000	0.002	0.005	0.000	0.002	0.023	0.000	0.007	0.007	0.068	0.063	0.051	0.033		0.274
	11	0.002	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.005	0.005	0.037	0.077	0.026	0.009		0.173
	Subtotal	0.224	0.136	0.124	0.168	0.161	0.227	0.203	0.105	0.393	0.154	0.147	0.152	0.339	0.344	0.229	0.543	0.000	3.650
4 (D)	1 (Calm)																	0.005	0.005
	2	0.042	0.042	0.065	0.061	0.065	0.047	0.033	0.030	0.028	0.014	0.021	0.014	0.019	0.044	0.019	0.023		0.568
	3	0.096	0.084	0.187	0.217	0.203	0.194	0.072	0.051	0.068	0.040	0.054	0.021	0.042	0.044	0.065	0.094		1.503
	4	0.157	0.124	0.182	0.231	0.304	0.180	0.126	0.117	0.091	0.072	0.065	0.056	0.070	0.044	0.094	0.117		2.002
	5	0.489	0.278	0.281	0.407	0.531	0.419	0.449	0.313	0.400	0.257	0.229	0.210	0.206	0.138	0.276	0.540		5.424
	6	0.505	0.409	0.292	0.437	0.503	0.393	0.659	0.547	0.748	0.475	0.299	0.187	0.255	0.269	0.435	0.912		7.325
	7	0.554	0.353	0.276	0.288	0.313	0.302	0.496	0.477	0.772	0.451	0.332	0.208	0.313	0.374	0.549	1.024		7.062
	8	0.545	0.231	0.187	0.128	0.241	0.238	0.302	0.344	0.641	0.309	0.187	0.241	0.332	0.456	0.776	0.949		6.107
	9	0.650	0.264	0.122	0.103	0.200	0.220	0.250	0.136	0.607	0.253	0.213	0.325	0.727	1.270	1.920	1.823		9.083
	10	0.181	0.065	0.030	0.026	0.056	0.056	0.035	0.023	0.224	0.049	0.035	0.047	0.493	0.917	1.143	0.538		3.900
	11	0.056	0.023	0.023	0.005	0.042	0.016	0.019	0.002	0.094	0.014	0.012	0.028	0.290	0.531	0.599	0.220		1.975
	Subtotal	3.257	1.884	1.646	1.901	2.462	2.025	2.441	2.041	3.872	1.934	1.447	1.337	2.760	4.069	5.875	6.659	0.005	45.565
5 (E)	1 (Calm)																	0.014	0.014
	2	0.049	0.035	0.035	0.047	0.056	0.040	0.061	0.037	0.061	0.037	0.040	0.044	0.070	0.040	0.054	0.026		0.733
	3	0.091	0.068	0.049	0.096	0.084	0.101	0.082	0.101	0.103	0.094	0.098	0.082	0.056	0.044	0.037	0.054		1.239
	4	0.117	0.101	0.082	0.119	0.152	0.112	0.210	0.161	0.140	0.152	0.147	0.084	0.098	0.054	0.070	0.084		1.564
	5	0.320	0.215	0.213	0.323	0.393	0.264	0.435	0.411	0.615	0.456	0.383	0.280	0.238	0.192	0.282	0.289		5.251
	6	0.414	0.306	0.222	0.203	0.268	0.313	0.479	0.547	1.010	0.638	0.447	0.271	0.281	0.271	0.360	0.468		6.518
	7	0.421	0.185	0.161	0.094	0.159	0.271	0.355	0.456	0.989	0.801	0.386	0.348	0.451	0.376	0.596	0.496		6.346
	8	0.238	0.070	0.058	0.021	0.087	0.143	0.208	0.332	0.664	0.426	0.231	0.367	0.498	0.542	0.848	0.645		5.178
	9	0.257	0.061	0.040	0.014	0.091	0.108	0.161	0.241	0.856	0.351	0.372	0.414	0.975	1.031	1.153	0.786		6.811
	10	0.056	0.023	0.007	0.009	0.026	0.047	0.037	0.026	0.168	0.044	0.063	0.089	0.206	0.290	0.238	0.112		1.440
	11	0.019	0.002	0.014	0.002	0.049	0.007	0.021	0.002	0.021	0.005	0.005	0.005	0.023	0.028	0.023	0.033		0.260
	Subtotal	1.983	1.068	0.881	0.928	1.394	1.495	2.049	2.315	4.629	2.606	2.172	1.904	2.897	2.868	3.439	2.974	0.014	31.774
6 (F)	1 (Calm)																	0.012	0.012
	2	0.037	0.016	0.030	0.023	0.026	0.028	0.023	0.028	0.028	0.028	0.035	0.035	0.033	0.030	0.030	0.016		0.449
	3	0.023	0.028	0.021	0.037	0.047	0.028	0.042	0.047	0.026	0.047	0.040	0.042	0.037	0.035	0.030	0.035		0.563
	4	0.061	0.030	0.033	0.023	0.030	0.042	0.063	0.079	0.077	0.068	0.063	0.084	0.051	0.042	0.042	0.047		0.837
	5	0.124	0.044	0.042	0.040	0.035	0.065	0.101	0.103	0.175	0.208	0.231	0.150	0.101	0.091	0.140	0.138		1.789
	6	0.145	0.044	0.016	0.023	0.033	0.042	0.087	0.075	0.208	0.188	0.245	0.180	0.208	0.115	0.161	0.124		1.873
	7	0.068	0.021	0.014	0.000	0.012	0.026	0.042	0.108	0.108	0.108	0.154	0.199	0.199	0.173	0.203	0.133		1.566
	8	0.028	0.009	0.007	0.000	0.000	0.005	0.016	0.035	0.094	0.044	0.072	0.133	0.199	0.125	0.157	0.110		1.038
	9	0.005	0.000	0.000	0.000	0.000	0.002	0.009	0.014	0.056	0.047	0.054	0.187	0.299	0.243	0.143	0.044		1.104
	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.007	0.002	0.049	0.054	0.054	0.000	0.012		0.180
	11	0.002	0.000	0.000	0.000	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.000	0.000	0.000		0.016
	Subtotal	0.493	0.194	0.164	0.147	0.192	0.238	0.383	0.489	0.774	0.725	0.898	1.061	1.151	0.913	0.907	0.659	0.012	9.437

ATTACHMENT K

7 (G)	1 (Calm)																	0.000	0.000
	2	0.016	0.021	0.014	0.014	0.019	0.005	0.002	0.016	0.019	0.019	0.002	0.023	0.019	0.019	0.016	0.023		0.248
	3	0.009	0.012	0.012	0.009	0.012	0.007	0.007	0.005	0.021	0.002	0.012	0.019	0.012	0.014	0.014	0.021		0.187
	4	0.009	0.021	0.012	0.009	0.012	0.002	0.026	0.009	0.019	0.021	0.014	0.019	0.016	0.019	0.026	0.026		0.262
	5	0.082	0.019	0.035	0.030	0.016	0.012	0.028	0.012	0.051	0.044	0.051	0.044	0.058	0.051	0.103	0.079		0.718
	6	0.040	0.007	0.012	0.009	0.007	0.002	0.019	0.007	0.014	0.037	0.064	0.058	0.065	0.061	0.124	0.145		0.692
	7	0.016	0.009	0.002	0.000	0.000	0.002	0.009	0.007	0.019	0.009	0.037	0.094	0.063	0.047	0.096	0.068		0.479
	8	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.002	0.002	0.012	0.023	0.064	0.087	0.023	0.040	0.019		0.287
	9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.000	0.012	0.033	0.056	0.075	0.012	0.009		0.203
	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.002	0.005	0.000	0.000		0.012
	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
	Subtotal	0.175	0.089	0.067	0.072	0.065	0.030	0.096	0.061	0.147	0.145	0.238	0.348	0.378	0.312	0.430	0.393	0.000	3.087
	Total	6.222	3.530	3.107	3.537	4.772	4.274	5.370	5.067	10.011	5.859	4.975	4.966	7.614	8.769	10.940	10.810	0.030	100.00

Notes:

1) Wind Speed Categories defined as follows:

Category	Wind Speed (mph)
1 (Calm)	<0.5
2	>=0.5 to <2.35
3	>=2.35 to <3.47
4	>=3.47 to <4.59
5	>=4.59 to <6.82
6	>=6.82 to <9.06
7	>=9.06 to <11.3
8	>=11.3 to <13.53
9	>=13.53 to <18.01
10	>=18.01 to <22.37
11	>=22.37

Peach Bottom
Joint Frequency Distribution
1984-1988
Tower 2
33' wind
150'-33' Delta T

	Wind Speed Category[1]	Wind Direction Category 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Calm	Total
1 (A)	1(Calm)																	0.000	0.000
	2	0.086	0.146	0.153	0.114	0.051	0.046	0.028	0.028	0.009	0.000	0.000	0.009	0.012	0.023	0.044	0.039		0.789
	3	0.118	0.165	0.176	0.218	0.193	0.137	0.088	0.049	0.009	0.007	0.009	0.007	0.026	0.014	0.018	0.060		1.293
	4	0.155	0.095	0.063	0.063	0.086	0.130	0.100	0.060	0.028	0.014	0.032	0.019	0.058	0.056	0.039	0.107		1.105
	5	0.220	0.081	0.009	0.002	0.016	0.081	0.144	0.111	0.097	0.065	0.067	0.053	0.132	0.151	0.118	0.290		1.641
	6	0.060	0.016	0.002	0.000	0.000	0.032	0.021	0.046	0.137	0.051	0.077	0.060	0.104	0.079	0.042	0.204		0.933
	7	0.028	0.000	0.000	0.000	0.000	0.002	0.005	0.030	0.107	0.032	0.037	0.021	0.049	0.028	0.028	0.074		0.441
	8	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.009	0.037	0.009	0.005	0.002	0.009	0.019	0.014	0.014		0.123
	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.009	0.019	0.002	0.005	0.002	0.007	0.012	0.002	0.005		0.083
	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.002
	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
	Subtotal	0.673	0.504	0.464	0.397	0.346	0.429	0.385	0.343	0.448	0.181	0.232	0.174	0.397	0.381	0.304	0.794	0.000	6.389
2 (B)	1 (Calm)																	0.000	0.000
	2	0.058	0.074	0.072	0.042	0.037	0.019	0.023	0.007	0.012	0.002	0.005	0.002	0.016	0.007	0.014	0.035		0.425
	3	0.081	0.056	0.077	0.114	0.104	0.084	0.030	0.023	0.016	0.002	0.009	0.012	0.019	0.021	0.007	0.053		0.708
	4	0.086	0.063	0.019	0.030	0.019	0.044	0.042	0.032	0.032	0.028	0.030	0.009	0.037	0.035	0.026	0.081		0.613
	5	0.225	0.030	0.007	0.005	0.009	0.023	0.079	0.109	0.137	0.058	0.097	0.072	0.093	0.104	0.097	0.227		1.374
	6	0.097	0.005	0.000	0.000	0.002	0.007	0.028	0.058	0.197	0.058	0.056	0.039	0.056	0.086	0.118	0.272		1.079
	7	0.016	0.000	0.000	0.000	0.000	0.002	0.002	0.039	0.153	0.056	0.028	0.032	0.070	0.093	0.100	0.165		0.757
	8	0.009	0.000	0.000	0.000	0.000	0.009	0.000	0.019	0.063	0.016	0.005	0.000	0.016	0.028	0.044	0.042		0.251
	9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.007	0.023	0.000	0.005	0.000	0.000	0.023	0.030	0.009		0.100
	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000		0.002
	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
	Subtotal	0.576	0.227	0.174	0.190	0.172	0.188	0.204	0.295	0.634	0.220	0.234	0.167	0.306	0.399	0.436	0.884	0.000	5.308
3 (C)	1 (Calm)																	0.000	0.000
	2	0.042	0.056	0.023	0.037	0.023	0.016	0.016	0.002	0.007	0.000	0.005	0.005	0.007	0.009	0.009	0.026		0.283
	3	0.032	0.053	0.039	0.074	0.058	0.046	0.009	0.009	0.007	0.000	0.007	0.005	0.007	0.007	0.012	0.051		0.418
	4	0.053	0.014	0.002	0.016	0.016	0.019	0.032	0.032	0.030	0.009	0.007	0.016	0.032	0.021	0.026	0.051		0.378
	5	0.077	0.009	0.005	0.002	0.005	0.005	0.037	0.079	0.111	0.039	0.032	0.023	0.044	0.058	0.058	0.174		0.759
	6	0.026	0.000	0.000	0.000	0.000	0.002	0.019	0.030	0.093	0.044	0.039	0.030	0.058	0.051	0.093	0.220		0.706
	7	0.014	0.002	0.000	0.000	0.000	0.000	0.000	0.019	0.077	0.035	0.030	0.030	0.042	0.070	0.102	0.111		0.531
	8	0.007	0.000	0.000	0.000	0.002	0.000	0.000	0.007	0.023	0.002	0.000	0.000	0.014	0.028	0.026	0.044		0.153
	9	0.002	0.000	0.000	0.000	0.000	0.002	0.000	0.005	0.014	0.000	0.000	0.000	0.000	0.019	0.035	0.019		0.095
	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.002
	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
	Subtotal	0.253	0.135	0.070	0.130	0.104	0.091	0.114	0.186	0.362	0.130	0.121	0.109	0.204	0.262	0.360	0.696	0.000	3.326
4 (D)	1 (Calm)																	0.023	0.023
	2	0.415	0.429	0.631	0.422	0.297	0.211	0.183	0.234	0.151	0.095	0.093	0.114	0.155	0.160	0.230	0.272		4.094
	3	0.501	0.387	0 392	0.320	0.395	0.200	0.181	0.306	0.269	0.118	0.091	0.132	0.130	0.144	0.216	0.290		4.052
	4	0.432	0.227	0.118	0.049	0.081	0.174	0.267	0.429	0.302	0.144	0.104	0.123	0.183	0.195	0.337	0.460		3.625
	5	0.729	0.137	0.035	0.032	0.065	0.153	0.562	0.761	0.750	0.343	0.258	0.239	0.381	0.617	1.035	1.318		7.416
	6	0.443	0.023	0.000	0.000	0.009	0.021	0.181	0.406	0.594	0.188	0.195	0.125	0.309	0.754	1.249	1.290		6.788
	7	0.197	0.005	0.000	0.000	0.000	0.009	0.053	0.102	0.320	0.097	0.058	0.079	0.255	0.634	0.977	0.752		3.539
	8	0.058	0.000	0.000	0.000	0.000	0.000	0.012	0.035	0.093	0.032	0.009	0.016	0.114	0.223	0.504	0.313		1.409
	9	0.039	0.000	0.000	0.000	0.000	0.000	0.005	0.019	0.065	0.009	0.005	0.005	0.049	0.065	0.204	0.162		0.627
	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.007	0.000	0.000	0.000	0.002	0.005	0.016		0.032
	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.007		0.009
	Subtotal	2.815	1.188	1.177	0.824	0.847	0.768	1.444	2.293	2.546	1.035	0.812	0.833	1.576	2.794	4.758	4.881	0.023	30.614
5 (E)	1 (Calm)																	0.125	0.125
	2	0.687	0.627	0.731	0.696	0.868	0.719	0.731	0.682	0.664	0.448	0.388	0.543	0.576	0.820	0.771	0.603		10.351
	3	0.536	0.353	0.237	0.200	0.341	0.376	0.548	0.717	0.819	0.429	0.376	0.378	0.469	0.545	0.648	0.397		7.368
	4	0.466	0.125	0.118	0.081	0.179	0.239	0.381	0.661	0.719	0.399	0.292	0.357	0.545	0.731	0.641	0.545		6.482
	5	0.501	0.081	0.060	0.079	0.060	0.148	0.490	0,824	0.900	0.487	0.420	0.580	0.884	1.395	1.295	1.003		9.207
	6	0.195	0.012	0.002	0.012	0.021	0.053	0.125	0.193	0.455	0.114	0.107	0.151	0.323	0.529	0.636	0.529		3.456
	7	0.049	0.005	0.000	0.000	0.000	0.012	0.046	0.042	0.146	0.035	0.037	0.035	0.095	0.128	0.204	0.165		0.998
	8	0.016	0.000	0.000	0.000	0.000	0.000	0.005	0.023	0.065	0.012	0.007	0.007	0.019	0.023	0.046	0.037		0.260
	9	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.007	0.037	0.002	0.000	0.000	0.005	0.012	0.007	0.014		0.088
	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.002	0.000	0.000	0.002		0.007
	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
	Subtotal	2.455	1.202	1.149	1.068	1.469	1.546	2.325	3.149	3.808	1.924	1.627	2.052	2.917	3.883	4.247	3.396	0.125	38.342
6 (F)	1 (Calm)																	0.060	0.060
	2	0.267	0.167	0.160	0.197	0.350	0.374	0.225	0.165	0.209	0.297	0.392	0.529	0.682	0.596	0.499	0.265		5.376
	3	0.051	0.021	0.018	0.016	0.070	0.149	0.074	0.067	0.072	0.182	0.292	0.522	0.483	0.371	0.289	0.116		2.753
	4	0.014	0.000	0.002	0.002	0.005	0.028	0.046	0.023	0.056	0.067	0.114	0.269	0.313	0.207	0.153	0.060		1.360
	5	0.002	0.000	0.009	0.002	0.002	0.005	0.009	0.019	0.056	0.039	0.107	0.295	0.183	0.109	0.053	0.023		0.914
	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.000	0.007	0.028	0.007	0.005	0.005	0.009		0.066
	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000		0.002
	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
	Subtotal	0.334	0.188	0.188	0.218	0.427	0.555	0.355	0.274	0.397	0.568	0.912	1.843	1.568	1.288	0.982	0.473	0.060	10.530

ATTACHMENT K

7 (G)	1 (Calm)																	0.035	0.035
	2	0.067	0.058	0.067	0.116	0.195	0.097	0.063	0.056	0.046	0.085	0.183	0.427	0.494	0.348	0.227	0.116		2.627
	3	0.016	0.012	0.000	0.000	0.016	0.032	0.012	0.007	0.007	0.012	0.202	0.724	0.501	0.197	0.063	0.019		1.820
	4	0.002	0.009	0.000	0.000	0.007	0.009	0.005	0.000	0.000	0.014	0.111	0.520	0.130	0.030	0.014	0.007		0.859
	5	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.002	0.026	0.070	0.035	0.005	0.002	0.000		0.142
	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.000	0.002	0.000	0.002		0.009
	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
	Subtotal	0.086	0.079	0.067	0.116	0.218	0.142	0.079	0.063	0.053	0.093	0.525	1.743	1.158	0.583	0.306	0.144	0.035	5.491
	Total	7.182	3.523	3.228	2.943	3.583	3.718	4.906	6.603	8.248	4.150	4.483	6.721	8.236	9.589	11.393	11.163	0.244	100.00

Notes:
1) Wind Speed Categories defined as follows

Category	Wind Speed (mph)
1 (Calm)	<0.5
2	>=0.5 to <2.35
3	>=2.35 to <3.47
4	>=3.47 to <4.59
5	>=4.59 to <6.82
6	>=6.82 to <9.06
7	>=9.06 to <11.3
8	>=11.3 to <13.53
9	>=13.53 to <18.01
10	>=18.01 to <22.37
11	>=22.37

Peach Bottom
Joint Frequency Distribution
1984-1988
Tower 1A
92' wind
89'-33' Delta T

		Wind Direction Category																	
	Wind Speed Category[1]	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Calm	Total
1 (A)	1(Calm)																	0.005	0.005
	2	0.044	0.081	0.120	0.157	0.275	0.099	0.042	0.007	0.002	0.000	0.002	0.002	0.005	0.002	0.005	0.014		0.857
	3	0.092	0.099	0.143	0.240	0.520	0.425	0.139	0.039	0.018	0.000	0.012	0.016	0.021	0.002	0.012	0.028		1.807
	4	0.155	0.111	0.113	0.132	0.326	0.548	0.333	0.139	0.039	0.014	0.028	0.051	0.030	0.002	0.023	0.060		2.103
	5	0.467	0.171	0.143	0.150	0.383	0.793	1.259	0.245	0.030	0.014	0.005	0.065	0.116	0.058	0.085	0.370		4.333
	6	0.372	0.072	0.042	0.069	0.113	0.453	0.582	0.030	0.000	0.000	0.000	0.000	0.153	0.109	0.148	0.795		2.937
	7	0.217	0.018	0.014	0.028	0.037	0.171	0.118	0.002	0.000	0.000	0.000	0.000	0.122	0.201	0.268	1.146		2.343
	8	0.081	0.009	0.007	0.002	0.005	0.044	0.018	0.000	0.000	0.000	0.000	0.000	0.058	0.109	0.210	0.862		1.405
	9	0.076	0.005	0.002	0.007	0.000	0.021	0.007	0.000	0.000	0.000	0.000	0.000	0.023	0.085	0.224	0.550		1.001
	10	0.016	0.000	0.002	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.053		0.074
	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.014		0.014
	Subtotal	1.520	0.568	0.587	0.786	1.638	2.556	2.488	0.482	0.090	0.028	0.046	0.134	0.527	0.568	0.975	3.891	0.005	16.876
2 (B)	1 (Calm)																	0.000	0.000
	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
	Subtotal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3 (C)	1 (Calm)																	0.000	0.000
	2	0.009	0.032	0.030	0.053	0.113	0.095	0.016	0.009	0.000	0.002	0.002	0.005	0.005	0.005	0.002	0.009		0.388
	3	0.044	0.042	0.049	0.055	0.111	0.139	0.102	0.039	0.012	0.007	0.005	0.012	0.014	0.005	0.007	0.016		0.656
	4	0.076	0.039	0.039	0.044	0.129	0.162	0.199	0.074	0.016	0.014	0.016	0.044	0.037	0.023	0.028	0.042		0.982
	5	0.159	0.076	0.055	0.099	0.176	0.307	0.439	0.076	0.007	0.000	0.016	0.072	0.132	0.062	0.076	0.215		1.969
	6	0.102	0.028	0.067	0.037	0.069	0.187	0.143	0.002	0.000	0.000	0.000	0.012	0.196	0.194	0.176	0.349		1.562
	7	0.088	0.000	0.021	0.002	0.025	0.083	0.053	0.000	0.000	0.000	0.000	0.000	0.129	0.213	0.261	0.384		1.259
	8	0.023	0.000	0.009	0.002	0.007	0.025	0.023	0.000	0.000	0.000	0.000	0.000	0.062	0.201	0.150	0.231		0.736
	9	0.023	0.000	0.002	0.005	0.000	0.021	0.009	0.000	0.000	0.000	0.000	0.000	0.012	0.113	0.106	0.171		0.462
	10	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.009	0.025		0.042
	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
	Subtotal	0.525	0.217	0.273	0.298	0.631	1.019	0.987	0.201	0.035	0.023	0.039	0.143	0.587	0.820	0.816	1.442	0.000	8.055
4 (D)	1 (Calm)																	0.002	0.002
	2	0.051	0.044	0.067	0.099	0.261	0.303	0.224	0.116	0.051	0.035	0.035	0.032	0.042	0.018	0.014	0.016		1.407
	3	0.120	0.060	0.072	0.085	0.176	0.324	0.633	0.187	0.076	0.049	0.069	0.127	0.134	0.051	0.037	0.060		2.260
	4	0.095	0.092	0.088	0.095	0.231	0.310	0.746	0.245	0.051	0.035	0.042	0.139	0.217	0.085	0.113	0.143		2.727
	5	0.263	0.208	0.240	0.238	0.388	0.538	1.035	0.310	0.039	0.012	0.018	0.196	0.702	0.495	0.469	0.501		5.854
	6	0.213	0.062	0.106	0.090	0.194	0.337	0.437	0.030	0.002	0.002	0.002	0.044	0.638	1.070	0.848	0.601		4.677
	7	0.125	0.028	0.035	0.009	0.081	0.153	0.176	0.000	0.000	0.000	0.002	0.007	0.330	1.010	0.839	0.506		3.300
	8	0.032	0.005	0.021	0.007	0.025	0.042	0.044	0.000	0.000	0.000	0.000	0.002	0.153	0.492	0.476	0.213		1.511
	9	0.030	0.007	0.002	0.000	0.023	0.046	0.014	0.002	0.000	0.000	0.000	0.000	0.053	0.203	0.169	0.122		0.672
	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.018	0.007	0.007	0.030		0.082
	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
	Subtotal	0.929	0.506	0.631	0.624	1.380	2.053	3.309	0.890	0.220	0.132	0.169	0.548	2.288	3.431	2.972	2.193	0.002	22.273
5 (E)	1 (Calm)																	0.021	0.021
	2	0.102	0.058	0.099	0.069	0.176	0.555	0.855	0.344	0.169	0.109	0.120	0.127	0.102	0.049	0.049	0.062		3.043
	3	0.053	0.025	0.032	0.023	0.085	0.210	0.813	0.273	0.113	0.095	0.109	0.199	0.213	0.081	0.074	0.069		2.468
	4	0.051	0.035	0.028	0.039	0.074	0.111	0.626	0.215	0.053	0.028	0.042	0.213	0.319	0.155	0.083	0.074		2.144
	5	0.136	0.069	0.116	0.090	0.113	0.146	0.601	0.245	0.028	0.009	0.016	0.224	0.689	0.714	0.395	0.220		3.810
	6	0.109	0.049	0.049	0.039	0.127	0.146	0.141	0.048	0.002	0.002	0.002	0.025	0.291	0.836	0.460	0.277		2.802
	7	0.083	0.007	0.018	0.023	0.032	0.049	0.044	0.005	0.000	0.000	0.000	0.000	0.042	0.243	0.182	0.125		0.832
	8	0.037	0.000	0.002	0.002	0.023	0.023	0.023	0.000	0.000	0.000	0.000	0.002	0.009	0.037	0.039	0.037		0.236
	9	0.009	0.000	0.000	0.000	0.021	0.016	0.005	0.000	0.000	0.000	0.000	0.000	0.002	0.025	0.025	0.009		0.113
	10	0.000	0.000	0.000	0.000	0.002	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.007	0.000		0.023
	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
	Subtotal	0.580	0.243	0.344	0.287	0.654	1.264	3.108	1.128	0.385	0.243	0.289	0.790	1.671	2.147	1.267	0.873	0.021	16.293
6 (F)	1 (Calm)																	0.032	0.032
	2	0.062	0.049	0.039	0.074	0.143	0.404	0.908	0.580	0.300	0.206	0.185	0.183	0.183	0.097	0.106	0.095		3.814
	3	0.037	0.014	0.021	0.016	0.037	0.146	0.573	0.203	0.097	0.072	0.132	0.208	0.224	0.102	0.060	0.058		1.999
	4	0.039	0.007	0.018	0.018	0.009	0.053	0.356	0.187	0.055	0.018	0.053	0.210	0.289	0.129	0.085	0.051		1.581
	5	0.023	0.009	0.025	0.012	0.018	0.028	0.104	0.083	0.018	0.009	0.016	0.421	0.601	0.441	0.266	0.113		2.188
	6	0.023	0.002	0.009	0.014	0.023	0.007	0.005	0.007	0.000	0.000	0.002	0.088	0.185	0.275	0.102	0.055		0.797
	7	0.000	0.000	0.000	0.000	0.009	0.009	0.000	0.000	0.000	0.000	0.000	0.002	0.009	0.018	0.023	0.023		0.092
	8	0.000	0.000	0.000	0.000	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.005		0.028
	9	0.000	0.000	0.000	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.002	0.000		0.014
	10	0.000	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.005
	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
	Subtotal	0.185	0.081	0.113	0.134	0.273	0.647	1.948	1.061	0.471	0.305	0.388	1.111	1.495	1.063	0.648	0.400	0.032	10.356

ATTACHMENT K

7 (G)	1 (Calm)																0.113	0.113
	2	0.067	0.060	0.058	0.067	0.127	0.372	1.458	1.998	2.017	1.324	1.084	0.971	0.638	0.293	0.166	0.099	10.798
	3	0.049	0.039	0.025	0.007	0.055	0.113	0.513	0.458	0.337	0.298	0.525	1.176	1.070	0.293	0.159	0.099	6.218
	4	0.023	0.005	0.002	0.005	0.009	0.023	0.173	0.164	0.092	0.055	0.136	1.347	1.183	0.277	0.113	0.046	3.856
	5	0.014	0.002	0.000	0.005	0.002	0.005	0.069	0.044	0.016	0.012	0.044	2.262	2.415	0.536	0.215	0.067	5.708
	6	0.014	0.000	0.000	0.000	0.000	0.002	0.007	0.007	0.000	0.000	0.002	0.467	0.788	0.220	0.046	0.025	1.578
	7	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.016	0.032	0.016	0.007	0.002	0.079
	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.002
	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Subtotal	0.166	0.106	0.085	0.083	0.194	0.516	2.225	2.669	2.463	1.689	1.791	6.239	6.128	1.838	0.707	0.340	0.113	27.151
	Total	3.005	1.719	2.033	2.211	4.769	6.053	14.072	6.410	3.844	2.418	2.722	8.966	12.695	9.666	7.401	9.138	0.173	100.00

Notes:

1) Wind Speed Categories defined as follows

Category	Wind Speed (mph)
1 (Calm)	<0.5
2	>=0.5 to <2.35
3	>=2.35 to <3.47
4	>=3.47 to <4.59
5	>=4.59 to <6.82
6	>=6.82 to <9.06
7	>=9.06 to <11.3
8	>=11.3 to <13.53
9	>=13.53 to <18.01
10	>=18.01 to <22.37
11	>=22.37

Peach Bottom
Joint Frequency Distribution
1984-1988
Tower 1A/River Tower
45' River Tower wind
89'-33' Tower 1A Delta T

		Wind Direction Category																	
	Wind Speed Category[1]	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Calm	Total
1 (A)	1(Calm)																	0.000	0.000
	2	0.114	0.119	0.119	0.107	0.095	0.100	0.083	0.055	0.067	0.040	0.033	0.059	0.043	0.052	0.043	0.078		1.208
	3	0.098	0.078	0.074	0.105	0.195	0.214	0.209	0.064	0.071	0.033	0.036	0.019	0.045	0.048	0.033	0.090		1.413
	4	0.100	0.062	0.062	0.076	0.209	0.235	0.209	0.138	0.043	0.019	0.010	0.000	0.021	0.040	0.057	0.086		1.388
	5	0.186	0.121	0.112	0.150	0.219	0.438	0.592	0.188	0.093	0.036	0.021	0.021	0.033	0.029	0.250	0.212		2.700
	6	0.268	0.107	0.062	0.074	0.138	0.197	0.571	0.268	0.152	0.052	0.031	0.029	0.045	0.043	0.347	0.364		2.745
	7	0.245	0.045	0.040	0.017	0.052	0.062	0.288	0.312	0.183	0.045	0.055	0.048	0.064	0.093	0.359	0.450		2.357
	8	0.214	0.026	0.005	0.019	0.007	0.024	0.064	0.321	0.119	0.021	0.002	0.010	0.050	0.069	0.381	0.516		1.848
	9	0.186	0.026	0.010	0.002	0.002	0.021	0.024	0.245	0.105	0.017	0.000	0.002	0.052	0.181	0.635	0.826		2.336
	10	0.057	0.002	0.002	0.000	0.000	0.005	0.000	0.026	0.000	0.002	0.000	0.000	0.000	0.062	0.312	0.250		0.718
	11	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.026	0.171	0.102		0.316
	Subtotal	1.477	0.687	0.485	0.549	0.918	1.298	2.041	1.620	0.832	0.284	0.188	0.188	0.354	0.642	2.588	2.976	0.000	17.009
2 (B)	1 (Calm)																	0.000	0.000
	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
	7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
	Subtotal	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3 (C)	1 (Calm)																	0.002	0.002
	2	0.038	0.040	0.043	0.017	0.033	0.040	0.045	0.019	0.017	0.007	0.007	0.014	0.017	0.014	0.026	0.024		0.402
	3	0.045	0.038	0.036	0.052	0.052	0.064	0.069	0.026	0.014	0.002	0.005	0.010	0.007	0.017	0.031	0.050		0.619
	4	0.036	0.024	0.024	0.071	0.105	0.071	0.062	0.019	0.012	0.002	0.007	0.010	0.005	0.019	0.031	0.052		0.549
	5	0.095	0.043	0.059	0.069	0.147	0.174	0.205	0.093	0.038	0.033	0.024	0.021	0.031	0.029	0.143	0.100		1.303
	6	0.112	0.067	0.071	0.033	0.067	0.121	0.166	0.098	0.052	0.021	0.045	0.029	0.062	0.050	0.128	0.114		1.237
	7	0.107	0.024	0.021	0.012	0.048	0.098	0.114	0.098	0.074	0.024	0.055	0.040	0.076	0.121	0.169	0.174		1.253
	8	0.100	0.021	0.012	0.002	0.014	0.031	0.048	0.114	0.043	0.005	0.014	0.012	0.048	0.105	0.193	0.157		0.918
	9	0.081	0.000	0.007	0.002	0.000	0.024	0.019	0.062	0.017	0.007	0.007	0.010	0.038	0.268	0.409	0.304		1.253
	10	0.012	0.000	0.002	0.000	0.000	0.005	0.007	0.017	0.000	0.002	0.000	0.002	0.002	0.131	0.162	0.112		0.454
	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.036	0.121	0.062		0.224
	Subtotal	0.626	0.257	0.275	0.259	0.466	0.626	0.735	0.549	0.256	0.105	0.164	0.147	0.285	0.767	1.413	1.149	0.002	8.116
4 (D)	1 (Calm)																	0.002	0.002
	2	0.138	0.076	0.056	0.107	0.109	0.131	0.100	0.059	0.038	0.021	0.036	0.031	0.040	0.038	0.071	0.100		1.149
	3	0.081	0.071	0.112	0.086	0.109	0.093	0.147	0.057	0.043	0.019	0.024	0.036	0.038	0.059	0.074	0.067		1.116
	4	0.064	0.071	0.150	0.131	0.174	0.169	0.224	0.076	0.055	0.040	0.040	0.045	0.038	0.088	0.138	0.102		1.603
	5	0.262	0.143	0.197	0.221	0.283	0.385	0.507	0.233	0.176	0.093	0.088	0.114	0.159	0.162	0.290	0.214		3.527
	6	0.285	0.126	0.100	0.093	0.190	0.297	0.521	0.347	0.178	0.093	0.093	0.166	0.226	0.250	0.431	0.285		3.682
	7	0.221	0.076	0.043	0.050	0.138	0.212	0.231	0.469	0.143	0.040	0.088	0.064	0.207	0.383	0.557	0.300		3.216
	8	0.143	0.050	0.017	0.014	0.040	0.114	0.107	0.266	0.112	0.036	0.052	0.024	0.131	0.545	0.521	0.362		2.533
	9	0.107	0.033	0.010	0.002	0.031	0.069	0.076	0.235	0.055	0.017	0.012	0.014	0.152	1.028	1.004	0.564		3.408
	10	0.017	0.005	0.000	0.000	0.007	0.010	0.014	0.098	0.002	0.000	0.000	0.000	0.014	0.295	0.618	0.264		1.341
	11	0.007	0.002	0.000	0.000	0.000	0.000	0.002	0.010	0.000	0.000	0.000	0.000	0.002	0.074	0.255	0.102		0.454
	Subtotal	1.375	0.654	0.683	0.704	1.082	1.479	1.929	1.850	0.802	0.359	0.431	0.496	1.008	2.916	3.958	2.359	0.002	22.035
5 (E)	1 (Calm)																	0.010	0.010
	2	0.155	0.067	0.069	0.057	0.086	0.119	0.184	0.105	0.064	0.064	0.084	0.069	0.076	0.069	0.114	0.186		1.527
	3	0.095	0.076	0.038	0.076	0.067	0.140	0.205	0.086	0.024	0.043	0.081	0.048	0.078	0.078	0.081	0.197		1.413
	4	0.090	0.059	0.071	0.083	0.081	0.162	0.302	0.107	0.114	0.071	0.083	0.059	0.107	0.083	0.133	0.140		1.748
	5	0.207	0.084	0.083	0.118	0.112	0.214	0.407	0.302	0.207	0.038	0.102	0.126	0.174	0.193	0.352	0.169		2.866
	6	0.231	0.050	0.043	0.052	0.086	0.190	0.340	0.381	0.171	0.055	0.055	0.071	0.150	0.312	0.390	0.166		2.742
	7	0.169	0.059	0.029	0.019	0.045	0.117	0.200	0.376	0.095	0.010	0.043	0.014	0.052	0.319	0.457	0.214		2.217
	8	0.093	0.017	0.010	0.002	0.021	0.031	0.038	0.214	0.031	0.005	0.007	0.002	0.026	0.285	0.326	0.176		1.284
	9	0.069	0.002	0.000	0.005	0.033	0.048	0.043	0.162	0.021	0.002	0.002	0.002	0.005	0.207	0.357	0.168		1.125
	10	0.005	0.000	0.000	0.000	0.017	0.000	0.000	0.059	0.014	0.000	0.000	0.000	0.000	0.024	0.105	0.048		0.271
	11	0.000	0.000	0.000	0.000	0.000	0.005	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.024	0.014	0.007		0.056
	Subtotal	1.115	0.395	0.343	0.414	0.647	1.025	1.701	1.793	0.742	0.268	0.438	0.352	0.668	1.594	2.529	1.470	0.010	15.261
6 (F)	1 (Calm)																	0.010	0.010
	2	0.152	0.088	0.071	0.045	0.088	0.150	0.209	0.169	0.126	0.050	0.078	0.067	0.145	0.128	0.245	0.243		2.053
	3	0.064	0.036	0.043	0.055	0.057	0.078	0.190	0.114	0.109	0.071	0.100	0.143	0.143	0.107	0.166	0.176		1.653
	4	0.069	0.033	0.036	0.014	0.052	0.088	0.221	0.174	0.105	0.050	0.067	0.098	0.155	0.107	0.159	0.138		1.565
	5	0.128	0.033	0.040	0.026	0.040	0.124	0.264	0.321	0.174	0.040	0.050	0.078	0.126	0.250	0.283	0.164		2.141
	6	0.067	0.010	0.026	0.019	0.010	0.071	0.166	0.302	0.105	0.038	0.019	0.036	0.059	0.193	0.304	0.143		1.585
	7	0.033	0.002	0.002	0.002	0.010	0.026	0.048	0.202	0.062	0.012	0.000	0.010	0.012	0.176	0.247	0.109		0.854
	8	0.005	0.000	0.000	0.002	0.002	0.000	0.002	0.045	0.021	0.000	0.000	0.000	0.005	0.067	0.107	0.045		0.302
	9	0.000	0.000	0.000	0.002	0.024	0.000	0.000	0.024	0.007	0.000	0.000	0.000	0.000	0.012	0.017	0.021		0.107
	10	0.000	0.000	0.000	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.005		0.014
	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.000		0.005
	Subtotal	0.516	0.202	0.219	0.166	0.288	0.538	1.101	1.361	0.709	0.259	0.314	0.431	0.647	1.039	1.534	1.044	0.010	10.368

ATTACHMENT K

	1 (Calm)																	0.010	0.010
	2	0.235	0.098	0.090	0.086	0.109	0.176	0.288	0.350	0.426	0.302	0.526	0.690	0.959	0.835	1.006	0.830		6.805
	3	0.226	0.088	0.059	0.107	0.102	0.140	0.350	0.397	0.423	0.347	0.530	0.723	1.237	1.066	1.168	0.773		7.737
	4	0.136	0.050	0.064	0.017	0.064	0.124	0.359	0.328	0.288	0.195	0.290	0.519	1.054	0.680	0.721	0.519		5.404
	5	0.150	0.052	0.021	0.010	0.048	0.128	0.350	0.381	0.243	0.126	0.186	0.297	0.749	0.828	0.823	0.497		4.668
	6	0.117	0.014	0.010	0.005	0.002	0.067	0.076	0.150	0.069	0.024	0.014	0.038	0.214	0.338	0.454	0.186		1.777
7 (G)	7	0.024	0.002	0.002	0.000	0.000	0.010	0.012	0.029	0.029	0.007	0.000	0.002	0.014	0.193	0.214	0.040		0.578
	8	0.002	0.002	0.005	0.000	0.000	0.000	0.000	0.014	0.010	0.000	0.000	0.005	0.000	0.038	0.050	0.024		0.150
	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.017	0.007	0.000	0.000	0.000	0.000	0.007	0.014	0.010		0.055
	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.007
	11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.002
	Subtotal	0.890	0.307	0.252	0.224	0.326	0.645	1.434	1.667	1.498	1.001	1.548	2.274	4.227	3.784	4.450	2.878	0.010	27.313
	Total	5.948	2.462	2.257	2.317	3.827	5.611	8.941	8.831	4.880	2.279	3.080	3.827	7.190	10.763	16.269	11.876	0.033	100.00

Notes:

1) Wind Speed Categories defined as follows

Category	Wind Speed (mph)
1 (Calm)	<0.5
2	>=0.5 to <2.35
3	>=2.35 to <3.47
4	>=3.47 to <4.59
5	>=4.59 to <6.82
6	>=6.82 to <9.06
7	>=9.06 to <11.3
8	>=11.3 to <13.53
9	>13.53 to <18.01
10	>18.01 to <22.37
11	>=22.37

PAVAN Input and Output Files

(For convenience of review, PAVAN output was shortened to include only the printout of input cards and summary of X/Q results)

Off-Gas Stack to the EAB and LPZ (Tower 2 Meteorology, RG 1.23, Revision 1 Wind Speed Categories) 2
Units 2 and 3 Reactor Building Stacks, Reactor Building Personnel Access Doors, Railway Bay Doors, Roof Scuttle, and Ground-Level Hatch to EAB and LPZ (Tower 2 Meteorology; RG 1.23, Revision 1 Wind Speed Categories) 10
Off-Gas Stack to Control Room Intake (209 and 280 m; Tower 2 Meteorology; RG 1.23, Revision 1 Wind Speed Categories) 16
Off-Gas Stack to Control Room Intake (300 and 500 m; Tower 2 Meteorology; RG 1.23, Revision 1 Wind Speed Categories) 25
Off-Gas Stack to Control Room Intake (750 and 1000 m; Tower 2 Meteorology; RG 1.23, Revision 1 Wind Speed Categories) 33
Off-Gas Stack to Control Room Intake (1500 and 2000 m; Tower 2 Meteorology; RG 1.23, Revision 1 Wind Speed Categories) 42
Off-Gas Stack to Control Room Intake (3000 and 4000 m; Tower 2 Meteorology; RG 1.23, Revision 1 Wind Speed Categories) 51
Off-Gas Stack to Control Room Intake (5000 and 6000 m; Tower 2 Meteorology; RG 1.23, Revision 1 Wind Speed Categories) 58
Units 2 and 3 Reactor Building Stacks, Reactor Building Personnel Access Doors, Railway Bay Doors, Roof Scuttle, and Ground-Level Hatch to EAB (River Tower/Tower 1A Meteorology; RG 1.23, Revision 1 Wind Speed Categories) 64
Units 2 and 3 Reactor Building Stacks, Reactor Building Personnel Access Doors, Railway Bay Doors, Roof Scuttle, and Ground-Level Hatch to EAB and LPZ (Tower 1A Meteorology; RG 1.23, Revision 0 Wind Speed Categories) 69
Units 2 and 3 Reactor Building Stacks, Reactor Building Personnel Access Doors, Railway Bay Doors, Roof Scuttle, and Ground-Level Hatch to EAB and LPZ (Tower 1 A Meteorology; RG 1.23, Revision 1 Wind Speed Categories) 75

Off-Gas Stack to the EAB and LPZ (Tower 2 Meteorology, RG 1.23, Revision 1 Wind Speed Categories)

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   1  1111
Peach Bottom                                  Stack Release
97.5 meters          10.1-96.3 meters

PB, Tower 2 84-88 met data, RG 1.23 R1 wind cats, 320 ft wind, 33-316 ft Delta T
   11    2
2584. 54.3152.4 97.5
    0    0    0    2    6    5    0
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   0.   0.   0.   0.   3.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   0.   2.  10.  10.  15.   3.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   5.   6.  10.  23.  59.  25.   2.   0.   0.   1.   2.   0.   0.   0.   0.   1.
   1.   3.  11.  18.  43.  40.  10.   4.   2.   2.   2.   0.   1.   3.   0.   0.
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 04/21/08

PRINTOUT OF INPUT CARDS

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Stack Release
   3     97.5 meters          10.1-96.3 meters
   4
   5     PB, Tower 2 84-88 met data, RG 1.23 R1 wind cats, 320 ft wind, 33-316 ft Delta T   6         11 42771     2
   7          0.500  2584.000    54.300   152.400    97.500
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   9       0.000  6.000 10.000 11.000 13.000 17.000  9.000  0.000  7.000  4.000  3.000  3.000  2.000  3.000  0.000  5.000
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   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  2.000  1.000  2.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  10        101.  0.500
2.350  3.470  4.590  6.820  9.060 11.300 13.530 18.010 22.370 55.000  0.000  0.000  0.000  11        823.   823.   823.   823.   823.   823.
823.   823.   823.   823.   823.   823.   823.   823.   823.   823.  11        7300.  7300.  7300.  7300.  7300.  7300.  7300.  7300.  7300.
7300.  7300.  7300.  7300.  7300.  7300.  12          1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0
1.0    1.0    1.0
  12         1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0  13         823.   823.
823.   823.   823.   823.   823.   823.   823.   823.   823.   823.   823.   823.   823.   823.
  14        31.    18.    12.    24.    31.    31.    24.     0.     0.     0.     0.     0.     0.     0.     31.    13        7300.  7300.
7300.  7300.  7300.  7300.  7300.  7300.  7300.  7300.  7300.  7300.  7300.  7300.  7300.  7300.
  14        55.    61.   128.   104.    73.    98.   104.    85.   110.    85.    85.    67.    48.    67.    43.    43.
```

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 04/21/08

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: PB, Tower 2 84-88 met data, RG 1.23 R1 wind cats, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

RELATIVE CONCENTRATION (X/Q) VALUES (SEC/CUBIC METER)
VERSUS
AVERAGING TIME

DOWNWIND SECTOR	DISTANCE (METERS)	0-2 HOURS	0-8 HOURS	8-24 HOURS	1-4 DAYS	4-30 DAYS	ANNUAL AVERAGE	HOURS PER YEAR MAX 0-2 HR X/Q IS EXCEEDED IN SECTOR	DOWNWIND SECTOR
S	823.	2.47E-06	8.45E-07	4.94E-07	1.54E-07	2.90E-08	3.74E-09	4.0	S
SSW	823.	2.43E-06	8.70E-07	5.20E-07	1.70E-07	3.43E-08	4.82E-09	4.1	SSW
SW	823.	6.02E-06	1.88E-06	1.05E-06	2.98E-07	4.87E-08	5.31E-09	43.7	SW
WSW	823.	5.10E-06	1.81E-06	1.08E-06	3.53E-07	7.05E-08	9.84E-09	27.3	WSW
W	823.	3.75E-06	1.54E-06	9.83E-07	3.73E-07	9.29E-08	1.69E-08	13.4	W
WNW	823.	4.51E-06	1.66E-06	1.01E-06	3.40E-07	7.14E-08	1.06E-08	19.2	WNW
NW	823.	4.90E-06	1.56E-06	8.79E-07	2.54E-07	4.26E-08	4.81E-09	26.5	NW
NNW	823.	3.49E-06	8.84E-07	4.44E-07	1.00E-07	1.17E-08	8.55E-10	12.8	NNW
N	823.	5.56E-06	1.55E-06	8.22E-07	2.06E-07	2.83E-08	2.50E-09	36.1	N
NNE	823.	3.33E-06	9.22E-07	4.85E-07	1.21E-07	1.64E-08	1.42E-09	11.6	NNE
NE	823.	3.38E-06	9.08E-07	4.71E-07	1.13E-07	1.46E-08	1.19E-09	12.4	NE
ENE	823.	1.99E-06	5.82E-07	3.15E-07	8.33E-08	1.23E-08	1.19E-09	3.4	ENE
E	823.	1.50E-06	5.31E-07	3.16E-07	1.03E-07	2.04E-08	2.82E-09	1.8	E
ESE	823.	1.89E-06	6.03E-07	3.40E-07	9.82E-08	1.65E-08	1.86E-09	3.5	ESE
SE	823.	1.41E-06	4.13E-07	2.23E-07	5.85E-08	8.58E-09	8.20E-10	1.2	SE
SSE	823.	1.98E-06	7.65E-07	4.76E-07	1.69E-07	3.85E-08	6.28E-09	1.6	SSE
MAX X/Q		6.02E-06				TOTAL HOURS AROUND SITE:		222.9	
SRP 2.3.4	823.	9.17E-06	3.24E-06	1.92E-06	6.22E-07	1.23E-07	1.69E-08		
SITE LIMIT		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-08		

0.5 PERCENT X/Q TO AN INDIVIDUAL IS LIMITING.

X/Q VALUES (SEC/CUBIC METER) FOR FUMIGATION AT THE BOUNDARY:

DOWNWIND SECTOR	DISTANCE (METERS)	FUMIGATION X/Q
S	823.	5.30E-05
SSW	823.	4.79E-05
SW	823.	4.58E-05
WSW	823.	5.01E-05
W	823.	5.30E-05
WNW	823.	5.30E-05
NW	823.	5.01E-05
NNW	823.	4.22E-05
N	823.	4.22E-05
NNE	823.	4.22E-05
NE	823.	4.22E-05
ENE	823.	4.22E-05
E	823.	4.22E-05
ESE	823.	4.22E-05
SE	823.	4.22E-05
SSE	823.	5.30E-05

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**NOTE**: VALUES ON THIS PAGE ARE APPROXIMATIONS ONLY.
          CHECK THE REASONABLENESS OF THE ENVELOPES
          COMPUTED FOR THE 0-2 HOUR VALUES.  FOR ANY
          FAULTY ENVELOPES, ADJUST THE ABOVE VALUES.
```

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 04/21/08

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: PB, Tower 2 84-88 met data, RG 1.23 R1 wind cats, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

RELATIVE CONCENTRATION (X/Q) VALUES (SEC/CUBIC METER) VERSUS AVERAGING TIME

DOWNWIND SECTOR	DISTANCE (METERS)	0-2 HOURS	0-8 HOURS	8-24 HOURS	1-4 DAYS	4-30 DAYS	ANNUAL AVERAGE	HOURS PER YEAR MAX 0-2 HR X/Q IS EXCEEDED IN SECTOR	DOWNWIND SECTOR
S	7300.	2.02E-06	9.61E-07	6.62E-07	2.95E-07	9.24E-08	2.23E-08	3.4	S
SSW	7300.	1.94E-06	8.75E-07	5.88E-07	2.48E-07	7.20E-08	1.58E-08	3.2	SSW
SW	7300.	5.02E-06	2.20E-06	1.45E-06	5.93E-07	1.64E-07	3.39E-08	36.9	SW
WSW	7300.	4.33E-06	1.92E-06	1.28E-06	5.27E-07	1.48E-07	3.13E-08	25.8	WSW
W	7300.	3.09E-06	1.41E-06	9.56E-07	4.09E-07	1.21E-07	2.73E-08	10.0	W
WNW	7300.	3.84E-06	1.73E-06	1.16E-06	4.86E-07	1.40E-07	3.04E-08	19.5	WNW
NW	7300.	4.96E-06	2.24E-06	1.50E-06	6.32E-07	1.83E-07	4.00E-08	32.1	NW
NNW	7300.	3.42E-06	1.56E-06	1.06E-06	4.51E-07	1.33E-07	2.99E-08	14.3	NNW
N	7300.	5.67E-06	2.71E-06	1.88E-06	8.44E-07	2.67E-07	6.56E-08	43.7	N
NNE	7300.	3.30E-06	1.53E-06	1.04E-06	4.51E-07	1.36E-07	3.12E-08	13.2	NNE
NE	7300.	3.31E-06	1.49E-06	1.00E-06	4.24E-07	1.23E-07	2.70E-08	13.6	NE
ENE	7300.	2.01E-06	9.11E-07	6.13E-07	2.60E-07	7.57E-08	1.68E-08	4.0	ENE
E	7300.	1.52E-06	7.20E-07	4.96E-07	2.21E-07	6.90E-08	1.66E-08	2.2	E
ESE	7300.	1.85E-06	9.04E-07	6.31E-07	2.89E-07	9.44E-08	2.40E-08	3.6	ESE
SE	7300.	1.30E-06	6.65E-07	4.75E-07	2.29E-07	8.06E-08	2.24E-08	1.4	SE
SSE	7300.	1.53E-06	7.79E-07	5.56E-07	2.68E-07	9.40E-08	2.61E-08	1.3	SSE
MAX X/Q		5.67E-06				TOTAL HOURS AROUND SITE:		228.2	
SRP 2.3.4	7300.	9.05E-06	4.01E-06	2.67E-06	1.10E-06	3.10E-07	6.56E-08		
SITE LIMIT		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-08		

0.5 PERCENT X/Q TO AN INDIVIDUAL IS LIMITING.

X/Q VALUES (SEC/CUBIC METER) FOR FUMIGATION AT THE BOUNDARY:

DOWNWIND SECTOR	DISTANCE (METERS)	FUMIGATION X/Q
S	7300.	9.20E-06
SSW	7300.	9.80E-06
SW	7300.	1.75E-05
WSW	7300.	1.75E-05
W	7300.	1.13E-05
WNW	7300.	1.65E-05
NW	7300.	1.75E-05
NNW	7300.	1.33E-05
N	7300.	1.75E-05
NNE	7300.	1.33E-05
NE	7300.	1.33E-05
ENE	7300.	1.05E-05
E	7300.	8.58E-06
ESE	7300.	1.05E-05
SE	7300.	8.19E-06
SSE	7300.	8.19E-06

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**NOTE**: VALUES ON THIS PAGE ARE APPROXIMATIONS ONLY.
          CHECK THE REASONABLENESS OF THE ENVELOPES
          COMPUTED FOR THE 0-2 HOUR VALUES.  FOR ANY
          FAULTY ENVELOPES, ADJUST THE ABOVE VALUES.
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Units 2 and 3 Reactor Building Stacks, Reactor Building Personnel Access Doors, Railway Bay Doors, Roof Scuttle, and Ground-Level Hatch to EAB and LPZ (Tower 2 Meteorology; RG 1.23, Revision 1 Wind Speed Categories)

```
   1  1111
Peach Bottom                                  Ground Release
10.1 meters          10.1-45.7 meters

Peach Bottom, Tower 2 84-88 met data, 33 ft wind, 33-150 ft Delta T
   11     0
2584. 54.3 10.0 10.1
    0     0    0   10   54   26   15
  37.   63.  66.  49.  22.  20.  12.  12.   4.   0.   0.   4.   5.  10.  19.  17.
  51.   71.  76.  94.  83.  59.  38.  21.   4.   3.   4.   3.  11.   6.   7.  26.
  67.   41.  27.  27.  37.  56.  43.  26.  12.   6.  14.   8.  25.  24.  17.  46.
  95.   35.   4.   1.   7.  35.  62.  48.  42.  28.  29.  23.  57.  65.  51. 125.
  26.    7.   1.   0.   0.  14.   9.  20.  59.  22.  33.  26.  45.  34.  18.  88.
  12.    0.   0.   0.   0.   1.   2.  13.  46.  14.  16.   9.  21.  12.  12.  32.
   2.    0.   0.   0.   0.   0.   0.   4.  16.   4.   2.   1.   4.   8.   6.   6.
   0.    0.   0.   0.   0.   0.   0.   4.   8.   1.   2.   1.   3.   5.   1.   2.
   0.    0.   0.   0.   0.   0.   0.   0.   1.   0.   0.   0.   0.   0.   0.   0.
   0.    0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
  25.   32.  31.  18.  16.   8.  10.   3.   5.   1.   2.   1.   7.   3.   6.  15.
  35.   24.  33.  49.  45.  36.  13.  10.   7.   1.   4.   5.   8.   9.   3.  23.
  37.   27.   8.  13.   8.  19.  18.  14.  14.  12.  13.   4.  16.  15.  11.  35.
  97.   13.   3.   2.   4.  10.  34.  47.  59.  25.  42.  31.  40.  45.  42.  98.
  42.    2.   0.   0.   1.   3.  12.  25.  85.  25.  24.  17.  24.  37.  51. 117.
   7.    0.   0.   0.   0.   1.   1.  17.  66.  24.  12.  14.  30.  40.  43.  71.
   4.    0.   0.   0.   0.   4.   0.   8.  27.   7.   2.   0.   7.  12.  19.  18.
   1.    0.   0.   0.   0.   0.   0.   3.  10.   0.   2.   0.   0.  10.  13.   4.
   0.    0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   1.   0.   0.
   0.    0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
  18.   24.  10.  16.  10.   7.   7.   1.   3.   0.   2.   2.   3.   4.   4.  11.
  14.   23.  17.  32.  25.  20.   4.   4.   3.   0.   3.   2.   3.   3.   5.  22.
  23.    6.   1.   7.   7.   8.  14.  14.  13.   4.   3.   7.  14.   9.  11.  22.
  33.    4.   2.   1.   2.   2.  16.  34.  48.  17.  14.  10.  19.  25.  25.  75.
  11.    0.   0.   0.   0.   1.   8.  13.  40.  19.  17.  13.  25.  22.  40.  95.
   6.    1.   0.   0.   0.   0.   0.   8.  33.  15.  13.  13.  18.  30.  44.  48.
   3.    0.   0.   0.   1.   0.   0.   3.  10.   1.   0.   0.   6.  12.  11.  19.
   1.    0.   0.   0.   0.   1.   0.   2.   6.   0.   0.   0.   0.   8.  15.   8.
   0.    0.   0.   0.   0.   0.   0.   1.   0.   0.   0.   0.   0.   0.   0.   0.
   0.    0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
 179.  185. 272. 182. 128.  91.  79. 101.  65.  41.  40.  49.  67.  69.  99. 117.
 216.  158. 169. 138. 170.  86.  78. 132. 116.  51.  39.  57.  56.  62.  93. 125.
 186.   98.  51.  21.  35.  75. 115. 185. 130.  62.  45.  53.  79.  84. 145. 198.
 314.   59.  15.  14.  28.  66. 242. 328. 323. 148. 111. 103. 164. 266. 446. 568.
 191.   10.   0.   0.   4.   9.  78. 175. 256.  81.  84.  54. 133. 325. 538. 556.
  85.    2.   0.   0.   0.   4.  23.  44. 138.  42.  25.  34. 110. 273. 421. 324.
  25.    0.   0.   0.   0.   0.   5.  15.  40.  14.   4.   7.  49.  96. 217. 135.
  17.    0.   0.   0.   0.   0.   2.   8.  28.   4.   2.   2.  21.  28.  88.  70.
   0.    0.   0.   0.   0.   0.   0.   0.   1.   3.   0.   0.   0.   1.   2.   7.
   0.    0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   1.   3.
 296.  270. 315. 300. 374. 310. 315. 294. 286. 192. 167. 234. 248. 267. 332. 260.
 231.  152. 102.  86. 147. 162. 236. 309. 353. 185. 162. 163. 202. 235. 279. 171.
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201.	54.	51.	35.	77.	103.	164.	285.	310.	172.	126.	154.	235.	315.	276.	235.
216.	35.	26.	34.	26.	63.	211.	355.	388.	210.	181.	250.	381.	601.	558.	432.
84.	5.	1.	5.	9.	23.	54.	83.	196.	49.	46.	65.	139.	228.	274.	228.
21.	2.	0.	0.	0.	5.	20.	18.	63.	15.	16.	15.	41.	55.	88.	71.
7.	0.	0.	0.	0.	0.	2.	10.	28.	5.	3.	3.	8.	10.	20.	16.
2.	0.	0.	0.	0.	0.	0.	3.	16.	1.	0.	0.	2.	5.	3.	6.
0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	0.	1.	0.	0.	1.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
115.	72.	69.	85.	151.	161.	97.	71.	90.	128.	169.	228.	294.	257.	215.	114.
22.	9.	7.	7.	30.	64.	32.	29.	31.	70.	126.	225.	208.	160.	116.	50.
6.	0.	1.	1.	2.	12.	20.	10.	24.	29.	49.	116.	135.	89.	66.	26.
1.	0.	4.	1.	1.	2.	4.	8.	24.	17.	46.	127.	79.	47.	23.	10.
0.	0.	0.	0.	0.	0.	0.	0.	2.	0.	3.	12.	3.	2.	2.	4.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
29.	25.	29.	50.	84.	42.	27.	24.	20.	28.	79.	184.	213.	150.	98.	50.
7.	5.	0.	0.	7.	14.	5.	3.	3.	5.	87.	312.	216.	85.	27.	8.
1.	4.	0.	0.	3.	4.	2.	0.	0.	6.	48.	224.	56.	13.	6.	3.
0.	0.	0.	0.	0.	1.	0.	0.	0.	1.	11.	30.	15.	2.	1.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	1.	0.	1.	0.	1.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
101.	0.50	2.35	3.47	4.59	6.82	9.06	11.31	3.53	18.01	22.37	55.0				
0823.	0823.	0823.	0823.	0823.	0823.	0823.	0823.	0823.	0823.	0823.	0823.	0823.	0823.	0823.	0823.
7300.	7300.	7300.	7300.	7300.	7300.	7300.	7300.	7300.	7300.	7300.	7300.	7300.	7300.	7300.	7300.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.

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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 04/20/08

PRINTOUT OF INPUT CARDS

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   1     00010 01111 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000   2     Peach Bottom
Ground Release
   3     10.1 meters         10.1-45.7 meters
   4
   5     Peach Bottom, Tower 2 84-88 met data, 33 ft wind, 33-150 ft Delta T               6         11 43088     0
   7          0.500  2584.000    54.300    10.000    10.100
   8       0.000  0.000  0.000 10.000 54.000 26.000 15.000
   9      37.000 63.000 66.000 49.000 22.000 20.000 12.000 12.000  4.000  0.000  0.000  4.000  5.000 10.000 19.000 17.000
   9      51.000 71.000 76.000 94.000 83.000 59.000 38.000 21.000  4.000  3.000  4.000  3.000 11.000  6.000  7.000 26.000
   9      67.000 41.000 27.000 27.000 37.000 56.000 43.000 26.000 12.000  6.000 14.000  8.000 25.000 24.000 17.000 46.000
   9      95.000 35.000  4.000  1.000  7.000 35.000 62.000 48.000 42.000 28.000 29.000 23.000 57.000 65.000 51.000125.000
   9      26.000  7.000  1.000  0.000  0.000 14.000  9.000 20.000 59.000 22.000 33.000 26.000 45.000 34.000 18.000 88.000
   9      12.000  0.000  0.000  0.000  0.000  1.000  2.000 13.000 46.000 14.000 16.000  9.000 21.000 12.000 12.000 32.000
   9       2.000  0.000  0.000  0.000  0.000  0.000  0.000  4.000 16.000  4.000  2.000  1.000  4.000  8.000  6.000  6.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  4.000  8.000  1.000  2.000  1.000  3.000  5.000  1.000  2.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9      25.000 32.000 31.000 18.000 16.000  8.000 10.000  3.000  5.000  1.000  2.000  1.000  7.000  3.000  6.000 15.000
   9      35.000 24.000 33.000 49.000 45.000 36.000 13.000 10.000  7.000  1.000  4.000  5.000  8.000  9.000  3.000 23.000
   9      37.000 27.000  8.000 13.000  8.000 19.000 18.000 14.000 14.000 12.000 13.000  4.000 16.000 15.000 11.000 35.000
   9      97.000 13.000  3.000  2.000  4.000 10.000 34.000 47.000 59.000 25.000 42.000 31.000 40.000 45.000 42.000 98.000
   9      42.000  2.000  0.000  0.000  1.000  3.000 12.000 25.000 85.000 25.000 24.000 17.000 24.000 37.000 51.000117.000
   9       7.000  0.000  0.000  0.000  0.000  1.000  1.000 17.000 66.000 24.000 12.000 14.000 30.000 40.000 43.000 71.000
   9       4.000  0.000  0.000  0.000  0.000  4.000  0.000  8.000 27.000  7.000  2.000  0.000  7.000 12.000 19.000 18.000
   9       1.000  0.000  0.000  0.000  0.000  0.000  0.000  3.000 10.000  0.000  2.000  0.000  0.000 10.000 13.000  4.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9      18.000 24.000 10.000 16.000 10.000  7.000  7.000  1.000  3.000  0.000  2.000  2.000  3.000  4.000  4.000 11.000
   9      14.000 23.000 17.000 32.000 25.000 20.000  4.000  4.000  3.000  0.000  3.000  2.000  3.000  3.000  5.000 22.000
   9      23.000  6.000  1.000  7.000  7.000  8.000 14.000 14.000 13.000  4.000  3.000  7.000 14.000  9.000 11.000 22.000
   9      33.000  4.000  2.000  1.000  2.000  2.000 16.000 34.000 48.000 17.000 14.000 10.000 19.000 25.000 25.000 75.000
   9      11.000  0.000  0.000  0.000  0.000  1.000  8.000 13.000 40.000 19.000 17.000 13.000 25.000 22.000 40.000 95.000
   9       6.000  1.000  0.000  0.000  0.000  0.000  0.000  8.000 33.000 15.000 13.000 13.000 18.000 30.000 44.000 48.000
   9       3.000  0.000  0.000  0.000  1.000  0.000  0.000  3.000 10.000  1.000  0.000  0.000  6.000 12.000 11.000 19.000
   9       1.000  0.000  0.000  0.000  0.000  1.000  0.000  2.000  6.000  0.000  0.000  0.000  0.000  8.000 15.000  8.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9     179.000185.000272.000182.000128.000 91.000 79.000101.000 65.000 41.000 40.000 49.000 67.000 69.000 99.000117.000
   9     216.000158.000169.000138.000170.000 86.000 78.000132.000116.000 51.000 39.000 57.000 56.000 62.000 93.000125.000
   9     186.000 98.000 51.000 21.000 35.000 75.000115.000185.000130.000 62.000 45.000 53.000 79.000 84.000145.000198.000
   9     314.000 59.000 15.000 14.000 28.000 66.000242.000328.000323.000148.000111.000103.000164.000266.000446.000568.000
   9     191.000 10.000  0.000  0.000  4.000  9.000 78.000175.000256.000 81.000 84.000 54.000133.000325.000538.000556.000
   9      85.000  2.000  0.000  0.000  0.000  4.000 23.000 44.000138.000 42.000 25.000 34.000110.000273.000421.000324.000
   9      25.000  0.000  0.000  0.000  0.000  0.000  5.000 15.000 40.000 14.000  4.000  7.000 49.000 96.000217.000135.000
   9      17.000  0.000  0.000  0.000  0.000  0.000  2.000  8.000 28.000  4.000  2.000  2.000 21.000 28.000 88.000 70.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  3.000  0.000  0.000  0.000  1.000  2.000  7.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  3.000
   9     296.000270.000315.000300.000374.000310.000315.000294.000286.000192.000167.000234.000248.000267.000332.000260.000
   9     231.000152.000102.000 86.000147.000162.000236.000309.000353.000185.000162.000163.000202.000235.000279.000171.000
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   9     201.000 54.000 51.000 35.000 77.000103.000164.000285.000310.000172.000126.000154.000235.000315.000276.000235.000
   9     216.000 35.000 26.000 34.000 26.000 63.000211.000355.000388.000210.000181.000250.000381.000601.000558.000432.000
   9      84.000  5.000  1.000  5.000  9.000 23.000 54.000 83.000196.000 49.000 46.000 65.000139.000228.000274.000228.000
   9      21.000  2.000  0.000  0.000  0.000  5.000 20.000 18.000 63.000 15.000 16.000 15.000 41.000 55.000 88.000 71.000
   9       7.000  0.000  0.000  0.000  0.000  0.000  2.000 10.000 28.000  5.000  3.000  3.000  8.000 10.000 20.000 16.000
   9       2.000  0.000  0.000  0.000  0.000  0.000  0.000  3.000 16.000  1.000  0.000  0.000  2.000  5.000  3.000  6.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  0.000  0.000  0.000  1.000  0.000  0.000  1.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9     115.000 72.000 69.000 85.000151.000161.000 97.000 71.000 90.000128.000169.000228.000294.000257.000215.000114.000
   9      22.000  9.000  7.000  7.000 30.000 64.000 32.000 29.000 31.000 70.000126.000225.000208.000160.000116.000 50.000
   9       6.000  0.000  1.000  1.000  2.000 12.000 20.000 10.000 24.000 29.000 49.000116.000135.000 89.000 66.000 26.000
   9       1.000  0.000  4.000  1.000  1.000  2.000  4.000  8.000 24.000 17.000 46.000127.000 79.000 47.000 23.000 10.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  2.000  0.000  3.000 12.000  3.000  2.000  2.000  4.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9      29.000 25.000 29.000 50.000 84.000 42.000 27.000 24.000 20.000 28.000 79.000184.000213.000150.000 98.000 50.000
   9       7.000  5.000  0.000  0.000  7.000 14.000  5.000  3.000  3.000  5.000 87.000312.000216.000 85.000 27.000  8.000
   9       1.000  4.000  0.000  0.000  3.000  4.000  2.000  0.000  0.000  6.000 48.000224.000 56.000 13.000  6.000  3.000
   9       0.000  0.000  0.000  0.000  0.000  1.000  0.000  0.000  0.000  1.000 11.000 30.000 15.000  2.000  1.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  1.000  0.000  1.000  0.000  1.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  10        101.  0.500
2.350  3.470  4.590  6.820  9.060 11.300 13.530 18.010 22.370 55.000  0.000  0.000  0.000  11       823.   823.   823.   823.   823.   823.
823.   823.   823.   823.   823.   823.   823.   823.   823.   823.  11       7300.  7300.  7300.  7300.  7300.  7300.  7300.  7300.  7300.  7300.
7300.  7300.  7300.  7300.  7300.  7300.  12         1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0
1.0    1.0    1.0
  12        1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 04/20/08

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 84-88 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

RELATIVE CONCENTRATION (X/Q) VALUES (SEC/CUBIC METER)
VERSUS
AVERAGING TIME

DOWNWIND SECTOR	DISTANCE (METERS)	0-2 HOURS	0-8 HOURS	8-24 HOURS	1-4 DAYS	4-30 DAYS	ANNUAL AVERAGE	HOURS PER YEAR MAX 0-2 HR X/Q IS EXCEEDED IN SECTOR	DOWNWIND SECTOR
S	823.	1.81E-04	9.66E-05	7.06E-05	3.58E-05	1.35E-05	4.09E-06	8.0	S
SSW	823.	1.61E-04	8.23E-05	5.89E-05	2.84E-05	1.00E-05	2.78E-06	285.0	SSW
SW	823.	1.68E-04	8.61E-05	6.17E-05	2.99E-05	1.06E-05	2.97E-06	6.8	SW
WSW	823.	1.75E-04	8.86E-05	6.29E-05	3.00E-05	1.03E-05	2.81E-06	8.5	WSW
W	823.	2.23E-04	1.13E-04	8.08E-05	3.88E-05	1.35E-05	3.73E-06	14.5	W
WNW	823.	2.12E-04	1.07E-04	7.56E-05	3.58E-05	1.23E-05	3.30E-06	11.5	WNW
NW	823.	1.76E-04	9.13E-05	6.57E-05	3.22E-05	1.15E-05	3.29E-06	7.3	NW
NNW	823.	1.67E-04	8.90E-05	6.50E-05	3.29E-05	1.24E-05	3.73E-06	6.4	NNW
N	823.	1.69E-04	9.09E-05	6.67E-05	3.41E-05	1.30E-05	3.98E-06	6.4	N
NNE	823.	1.82E-04	9.13E-05	6.47E-05	3.06E-05	1.04E-05	2.80E-06	8.5	NNE
NE	823.	2.56E-04	1.27E-04	8.94E-05	4.18E-05	1.40E-05	3.68E-06	19.0	NE
ENE	823.	3.53E-04	1.83E-04	1.32E-04	6.47E-05	2.33E-05	6.68E-06	43.2	ENE
E	823.	3.54E-04	1.85E-04	1.34E-04	6.61E-05	2.40E-05	6.97E-06	43.7	E
ESE	823.	3.01E-04	1.59E-04	1.15E-04	5.75E-05	2.12E-05	6.27E-06	29.2	ESE
SE	823.	2.57E-04	1.38E-04	1.02E-04	5.19E-05	1.98E-05	6.09E-06	19.8	SE
SSE	823.	1.90E-04	1.03E-04	7.58E-05	3.91E-05	1.51E-05	4.70E-06	9.8	SSE
MAX X/Q		3.54E-04				TOTAL HOURS AROUND SITE:		527.7	
SRP 2.3.4	823.	5.79E-04	2.79E-04	1.93E-04	8.76E-05	2.81E-05	6.97E-06		
SITE LIMIT		2.95E-04	1.59E-04	1.16E-04	5.95E-05	2.27E-05	6.97E-06		

THE FIVE-PERCENT-FOR-THE-ENTIRE-SITE X/Q IS LIMITING.

NOTE: VALUES ON THIS PAGE ARE APPROXIMATIONS ONLY.
CHECK THE REASONABLENESS OF THE ENVELOPES
COMPUTED FOR THE 0-2 HOUR VALUES. FOR ANY
FAULTY ENVELOPES, ADJUST THE ABOVE VALUES.

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 04/20/08

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.1 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.1-45.7 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 84-88 met data, 33 ft wind, 33-150 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

RELATIVE CONCENTRATION (X/Q) VALUES (SEC/CUBIC METER) VERSUS AVERAGING TIME

DOWNWIND SECTOR	DISTANCE (METERS)	0-2 HOURS	0-8 HOURS	8-24 HOURS	1-4 DAYS	4-30 DAYS	ANNUAL AVERAGE	HOURS PER YEAR MAX 0-2 HR X/Q IS EXCEEDED IN SECTOR	DOWNWIND SECTOR
S	7300.	1.94E-05	8.86E-06	5.99E-06	2.56E-06	7.56E-07	1.70E-07	6.7	S
SSW	7300.	1.61E-05	7.10E-06	4.72E-06	1.95E-06	5.46E-07	1.15E-07	244.4	SSW
SW	7300.	1.70E-05	7.52E-06	5.01E-06	2.07E-06	5.81E-07	1.23E-07	6.7	SW
WSW	7300.	1.91E-05	8.25E-06	5.42E-06	2.18E-06	5.90E-07	1.19E-07	10.9	WSW
W	7300.	2.66E-05	1.15E-05	7.54E-06	3.03E-06	8.16E-07	1.64E-07	18.0	W
WNW	7300.	2.44E-05	1.05E-05	6.87E-06	2.75E-06	7.38E-07	1.48E-07	9.5	WNW
NW	7300.	1.84E-05	8.25E-06	5.52E-06	2.31E-06	6.63E-07	1.44E-07	6.3	NW
NNW	7300.	1.67E-05	7.76E-06	5.28E-06	2.29E-06	6.92E-07	1.60E-07	5.6	NNW
N	7300.	1.71E-05	8.01E-06	5.47E-06	2.39E-06	7.31E-07	1.71E-07	4.9	N
NNE	7300.	2.01E-05	8.68E-06	5.71E-06	2.30E-06	6.23E-07	1.26E-07	6.6	NNE
NE	7300.	3.15E-05	1.33E-05	8.60E-06	3.37E-06	8.76E-07	1.69E-07	16.5	NE
ENE	7300.	4.71E-05	2.05E-05	1.36E-05	5.50E-06	1.51E-06	3.09E-07	41.5	ENE
E	7300.	4.82E-05	2.10E-05	1.39E-05	5.66E-06	1.55E-06	3.20E-07	43.7	E
ESE	7300.	4.00E-05	1.76E-05	1.17E-05	4.82E-06	1.35E-06	2.83E-07	31.1	ESE
SE	7300.	3.20E-05	1.45E-05	9.76E-06	4.14E-06	1.21E-06	2.67E-07	20.8	SE
SSE	7300.	2.10E-05	9.70E-06	6.59E-06	2.84E-06	8.51E-07	1.95E-07	10.8	SSE
MAX X/Q		4.82E-05				TOTAL HOURS AROUND SITE:		484.1	
SRP 2.3.4	7300.	5.20E-05	2.24E-05	1.47E-05	5.91E-06	1.59E-06	3.20E-07		
SITE LIMIT		3.65E-05	1.67E-05	1.13E-05	4.82E-06	1.42E-06	3.20E-07		

THE FIVE-PERCENT-FOR-THE-ENTIRE-SITE X/Q IS LIMITING.

NOTE: VALUES ON THIS PAGE ARE APPROXIMATIONS ONLY.
CHECK THE REASONABLENESS OF THE ENVELOPES
COMPUTED FOR THE 0-2 HOUR VALUES. FOR ANY
FAULTY ENVELOPES, ADJUST THE ABOVE VALUES.

Off-Gas Stack to Control Room Intake (209 and 280 m; Tower 2 Meteorology; RG 1.23, Revision 1 Wind Speed Categories)

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   1  1111
Peach Bottom                                   Stack Release
97.5 meters         10.1-96.3 meters

Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
   11     1
2584. 54.3131.4 97.5
    0     0     0     2     6     5     0
   0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
   0.    0.    0.    0.    3.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
   0.    2.   10.   10.   15.    3.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
   5.    6.   10.   23.   59.   25.    2.    0.    0.    1.    2.    0.    0.    0.    0.    1.
   1.    3.   11.   18.   43.   40.   10.    4.    2.    2.    2.    0.    1.    3.    0.    0.
   0.    6.   10.   11.   13.   17.    9.    0.    7.    4.    3.    3.    2.    3.    0.    5.
   0.    1.    2.   13.    8.    3.    9.    0.    4.    3.    0.    6.   13.    7.    3.    4.
   2.    4.    9.   11.    2.    3.    7.    0.    6.    2.    2.    1.   14.    5.    2.   14.
   1.    2.    0.    1.    0.    1.    0.    0.    0.    0.    0.    2.   10.    2.    0.    1.
   1.    0.    0.    0.    0.    1.    0.    0.    0.    0.    0.    1.    6.    5.    1.    1.
   0.    1.    1.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
   0.    1.    1.    9.    5.    0.    2.    0.    0.    0.    0.    0.    0.    0.    0.    0.
   1.    7.    5.    8.   21.    5.    1.    0.    0.    0.    0.    0.    1.    0.    1.    0.
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 237.  151.  118.  123.  134.  129.  212.  204.  330.  193.  142.   89.  134.  160.  235.  438.
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   4.   5.   5.   4.   5.   3.   3.   2.   9.   1.   5.   8.   5.   6.   6.   9.
   4.   9.   5.   4.   5.   1.  11.   4.   8.   9.   6.   8.   7.   8.  11.  12.
  35.   8.  15.  13.   7.   5.  12.   5.  22.  19.  22.  19.  25.  22.  44.  34.
  17.   3.   5.   4.   3.   1.   8.   3.   6.  16.  36.  25.  28.  26.  53.  62.
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 101. 0.50 2.35 3.47 4.59 6.82 9.06 11.313.5318.0122.37 55.0
0209.0209.0209.0209.0209.0209.0209.0209.0209.0209.0209.0209.0209.0209.0209.0209.
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 04/20/08

PRINTOUT OF INPUT CARDS

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   1     00010 01111 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000   2     Peach Bottom
Stack Release
   3     97.5 meters         10.1-96.3 meters
   4
   5     Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T          6         11 42771     1
   7          0.500  2584.000    54.300   131.400    97.500
   8       0.000  0.000  0.000  2.000  6.000  5.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
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   9       0.000  2.000 10.000 10.000 15.000  3.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
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   9       0.000  6.000 10.000 11.000 13.000 17.000  9.000  0.000  7.000  4.000  3.000  3.000  2.000  3.000  0.000  5.000
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   9       2.000  4.000  9.000 11.000  2.000  3.000  7.000  0.000  6.000  2.000  2.000  1.000 14.000  5.000  2.000 14.000
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   9      12.000 15.000  9.000 11.000 34.000 19.000  6.000  1.000  1.000  4.000  3.000  1.000  3.000  1.000  2.000  3.000
   9       1.000 11.000 11.000 18.000  6.000 21.000 11.000  4.000  4.000  4.000  4.000  2.000  3.000  5.000  1.000  7.000
   9       2.000  5.000  4.000  2.000  5.000  9.000 13.000  5.000 17.000  9.000  6.000  5.000 13.000  2.000  1.000 12.000
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   9       4.000  7.000 11.000 16.000 31.000 17.000  2.000  0.000  1.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000
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   9      26.000 12.000  8.000 11.000 10.000 21.000 26.000 13.000 20.000 13.000  9.000  4.000 16.000  6.000  8.000 35.000
   9      21.000  6.000  3.000  8.000  5.000 11.000 31.000 10.000 40.000 14.000 15.000 14.000 23.000 13.000  9.000 45.000
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   9      18.000 18.000 28.000 26.000 28.000 20.000 14.000 13.000 12.000  6.000  9.000  6.000  8.000 19.000  8.000 10.000
   9      41.000 40.000 80.000 93.000 87.000 66.000 31.000 22.000 29.000 17.000 23.000  9.000 18.000 19.000 28.000 40.000
   9      67.000 53.000 78.000 99.000130.000 77.000 54.000 50.000 39.000 31.000 28.000 24.000 30.000 19.000 40.000 50.000
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   9     216.000175.000125.000187.000215.000168.000282.000234.000320.000203.000128.000 80.000109.000115.000186.000390.000
   9     237.000151.000118.000123.000134.000129.000212.000204.000330.000193.000142.000 89.000134.000160.000235.000438.000
   9     233.000 99.000 80.000 54.000103.000102.000129.000147.000274.000132.000 80.000103.000142.000196.000332.000406.000
   9     278.000113.000 52.000 44.000 87.000 94.000107.000 58.000345.000108.000 91.000139.000311.000543.000821.000694.000
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   9      21.000 15.000 15.000 20.000 24.000 17.000 26.000 16.000 26.000 16.000 17.000 19.000 30.000 17.000 23.000 11.000
   9      39.000 29.000 21.000 41.000 36.000 43.000 35.000 43.000 44.000 40.000 42.000 35.000 24.000 19.000 16.000 23.000
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   9      50.000 43.000 35.000 51.000 65.000 48.000 90.000 69.000 60.000 65.000 63.000 36.000 42.000 23.000 30.000 36.000
   9     137.000 92.000 91.000138.000168.000113.000186.000176.000263.000196.000164.000111.000102.000 82.000112.000115.000
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   9      16.000  7.000 13.000 10.000 11.000 12.000 10.000 12.000 12.000 12.000 15.000 15.000 14.000 13.000 13.000  7.000
   9      10.000 12.000  9.000 16.000 20.000 11.000 18.000 20.000 11.000 20.000 17.000 18.000 16.000 15.000 13.000 15.000
   9      26.000 13.000 14.000 10.000 13.000 18.000 27.000 34.000 33.000 29.000 27.000 36.000 22.000 18.000 18.000 20.000
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   9      35.000  8.000 15.000 13.000  7.000  5.000 12.000  5.000 22.000 19.000 22.000 19.000 25.000 22.000 44.000 34.000
   9      17.000  3.000  5.000  4.000  3.000  1.000  8.000  3.000  6.000 16.000 36.000 25.000 28.000 26.000 53.000 62.000
   9       7.000  4.000  1.000  0.000  0.000  1.000  4.000  3.000  8.000  4.000 16.000 40.000 27.000 20.000 41.000 29.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  2.000  1.000  1.000  5.000 10.000 23.000 37.000 10.000 17.000  8.000
   9       1.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  1.000  0.000  5.000 14.000 24.000 32.000  5.000  4.000
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2.350  3.470  4.590  6.820  9.060 11.300 13.530 18.010 22.370 55.000  0.000  0.000  0.000  11        209.   209.   209.   209.   209.   209.
209.   209.   209.   209.   209.   209.   209.   209.   209.   209.  11        280.   280.   280.   280.   280.   280.   280.   280.   280.   280.
280.   280.   280.   280.   280.   280.  12          1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0
1.0    1.0
  12         1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0  13        500.   500.
500.   500.   500.   500.   500.   500.   500.   500.   500.   500.   500.   500.   500.   500.   500.
  14         0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 04/20/08

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

RELATIVE CONCENTRATION (X/Q) VALUES (SEC/CUBIC METER) VERSUS AVERAGING TIME

DOWNWIND SECTOR	DISTANCE (METERS)	0-2 HOURS	0-8 HOURS	8-24 HOURS	1-4 DAYS	4-30 DAYS	ANNUAL AVERAGE	HOURS PER YEAR MAX 0-2 HR X/Q IS EXCEEDED IN SECTOR	DOWNWIND SECTOR
S	209.	1.67E-06	1.68E-07	5.33E-08	4.41E-09	1.23E-10	1.55E-12	7.4	S
SSW	209.	1.71E-06	1.98E-07	6.77E-08	6.55E-09	2.29E-10	3.80E-12	154.3	SSW
SW	209.	2.21E-06	2.86E-07	1.03E-07	1.12E-08	4.64E-10	9.45E-12	17.7	SW
WSW	209.	2.54E-06	3.47E-07	1.28E-07	1.48E-08	6.67E-10	1.50E-11	24.9	WSW
W	209.	3.31E-06	4.83E-07	1.84E-07	2.28E-08	1.14E-09	2.91E-11	43.7	W
WNW	209.	2.49E-06	3.44E-07	1.28E-07	1.50E-08	6.89E-10	1.59E-11	22.4	WNW
NW	209.	1.70E-06	2.05E-07	7.11E-08	7.16E-09	2.66E-10	4.72E-12	6.6	NW
NNW	209.	1.37E-06	1.23E-07	3.69E-08	2.71E-09	6.38E-11	6.49E-13	3.6	NNW
N	209.	1.55E-06	1.66E-07	5.44E-08	4.83E-09	1.49E-10	2.12E-12	3.9	N
NNE	209.	1.30E-06	1.36E-07	4.39E-08	3.80E-09	1.13E-10	1.53E-12	2.5	NNE
NE	209.	1.28E-06	1.31E-07	4.20E-08	3.54E-09	1.02E-10	1.32E-12	3.2	NE
ENE	209.	1.20E-06	1.23E-07	3.94E-08	3.32E-09	9.56E-11	1.25E-12	2.0	ENE
E	209.	1.42E-06	1.70E-07	5.86E-08	5.86E-09	2.14E-10	3.75E-12	3.4	E
ESE	209.	1.19E-06	1.35E-07	4.54E-08	4.29E-09	1.45E-10	2.30E-12	4.7	ESE
SE	209.	1.28E-06	1.12E-07	3.31E-08	2.35E-09	5.28E-11	5.08E-13	3.0	SE
SSE	209.	1.64E-06	1.79E-07	5.92E-08	5.37E-09	1.71E-10	2.51E-12	4.4	SSE
MAX X/Q		3.31E-06				TOTAL HOURS AROUND SITE:		307.8	
SRP 2.3.4	209.	2.12E-06	3.33E-07	1.32E-07	1.77E-08	9.91E-10	2.91E-11		
SITE LIMIT		2.12E-06	3.33E-07	1.32E-07	1.77E-08	9.91E-10	2.91E-11		

0.5 PERCENT X/Q TO AN INDIVIDUAL IS LIMITING.

X/Q VALUES (SEC/CUBIC METER) FOR FUMIGATION AT THE BOUNDARY:

DOWNWIND SECTOR	DISTANCE (METERS)	FUMIGATION X/Q
S	209.	1.69E-04
SSW	209.	1.69E-04
SW	209.	1.69E-04
WSW	209.	1.69E-04
W	209.	1.69E-04
WNW	209.	1.69E-04
NW	209.	1.69E-04
NNW	209.	1.69E-04
N	209.	1.69E-04
NNE	209.	1.69E-04
NE	209.	1.69E-04
ENE	209.	1.69E-04
E	209.	1.69E-04
ESE	209.	1.69E-04
SE	209.	1.69E-04
SSE	209.	1.69E-04

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**NOTE**: VALUES ON THIS PAGE ARE APPROXIMATIONS ONLY.
          CHECK THE REASONABLENESS OF THE ENVELOPES
          COMPUTED FOR THE 0-2 HOUR VALUES.  FOR ANY
          FAULTY ENVELOPES, ADJUST THE ABOVE VALUES.
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 04/20/08

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

RELATIVE CONCENTRATION (X/Q) VALUES (SEC/CUBIC METER)
VERSUS
AVERAGING TIME

DOWNWIND SECTOR	DISTANCE (METERS)	0-2 HOURS	0-8 HOURS	8-24 HOURS	1-4 DAYS	4-30 DAYS	ANNUAL AVERAGE	HOURS PER YEAR MAX 0-2 HR X/Q IS EXCEEDED IN SECTOR	DOWNWIND SECTOR
S	280.	1.67E-06	3.64E-07	1.70E-07	3.25E-08	3.03E-09	1.66E-10	7.4	S
SSW	280.	1.71E-06	4.30E-07	2.16E-07	4.83E-08	5.63E-09	4.06E-10	154.3	SSW
SW	280.	2.21E-06	6.19E-07	3.28E-07	8.25E-08	1.14E-08	1.01E-09	17.7	SW
WSW	280.	2.54E-06	7.52E-07	4.09E-07	1.09E-07	1.63E-08	1.60E-09	24.9	WSW
W	280.	3.31E-06	1.04E-06	5.87E-07	1.68E-07	2.79E-08	3.10E-09	43.7	W
WNW	280.	2.49E-06	7.45E-07	4.08E-07	1.10E-07	1.69E-08	1.70E-09	22.4	WNW
NW	280.	1.70E-06	4.43E-07	2.26E-07	5.27E-08	6.51E-09	5.04E-10	6.6	NW
NNW	280.	1.37E-06	2.66E-07	1.18E-07	2.00E-08	1.57E-09	6.96E-11	3.6	NNW
N	280.	1.55E-06	3.60E-07	1.73E-07	3.56E-08	3.66E-09	2.27E-10	3.9	N
NNE	280.	1.30E-06	2.94E-07	1.40E-07	2.80E-08	2.77E-09	1.64E-10	2.5	NNE
NE	280.	1.28E-06	2.84E-07	1.34E-07	2.61E-08	2.49E-09	1.41E-10	3.2	NE
ENE	280.	1.20E-06	2.66E-07	1.25E-07	2.45E-08	2.35E-09	1.33E-10	2.0	ENE
E	280.	1.42E-06	3.67E-07	1.87E-07	4.31E-08	5.26E-09	4.00E-10	3.4	E
ESE	280.	1.19E-06	2.92E-07	1.45E-07	3.16E-08	3.55E-09	2.45E-10	4.7	ESE
SE	280.	1.28E-06	2.42E-07	1.05E-07	1.73E-08	1.30E-09	5.45E-11	3.0	SE
SSE	280.	1.64E-06	3.88E-07	1.89E-07	3.95E-08	4.19E-09	2.69E-10	4.4	SSE
MAX X/Q		3.31E-06				TOTAL HOURS AROUND SITE:		307.8	
SRP 2.3.4	280.	2.12E-06	7.22E-07	4.21E-07	1.30E-07	2.43E-08	3.10E-09		
SITE LIMIT		2.12E-06	7.22E-07	4.21E-07	1.30E-07	2.43E-08	3.10E-09		

0.5 PERCENT X/Q TO AN INDIVIDUAL IS LIMITING.

X/Q VALUES (SEC/CUBIC METER) FOR FUMIGATION AT THE BOUNDARY:

DOWNWIND SECTOR	DISTANCE (METERS)	FUMIGATION X/Q
S	280.	1.30E-04
SSW	280.	1.30E-04
SW	280.	1.30E-04
WSW	280.	1.30E-04
W	280.	1.30E-04
WNW	280.	1.30E-04
NW	280.	1.30E-04
NNW	280.	1.30E-04
N	280.	1.30E-04
NNE	280.	1.30E-04
NE	280.	1.30E-04
ENE	280.	1.30E-04
E	280.	1.30E-04
ESE	280.	1.30E-04
SE	280.	1.30E-04
SSE	280.	1.30E-04

NOTE: VALUES ON THIS PAGE ARE APPROXIMATIONS ONLY.
CHECK THE REASONABLENESS OF THE ENVELOPES
COMPUTED FOR THE 0-2 HOUR VALUES. FOR ANY
FAULTY ENVELOPES, ADJUST THE ABOVE VALUES.

Off-Gas Stack to Control Room Intake (300 and 500 m; Tower 2 Meteorology; RG 1.23, Revision 1 Wind Speed Categories)

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   1  1111
Peach Bottom                                   Stack Release
97.5 meters          10.1-96.3 meters

Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
   11     1
2584. 54.3131.4 97.5
    0     0     0     2     6     5     0
   0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
   0.    0.    0.    0.    3.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
   0.    2.   10.   10.   15.    3.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
   5.    6.   10.   23.   59.   25.    2.    0.    0.    1.    2.    0.    0.    0.    0.    1.
   1.    3.   11.   18.   43.   40.   10.    4.    2.    2.    2.    0.    1.    3.    0.    0.
   0.    6.   10.   11.   13.   17.    9.    0.    7.    4.    3.    3.    2.    3.    0.    5.
   0.    1.    2.   13.    8.    3.    9.    0.    4.    3.    0.    6.   13.    7.    3.    4.
   2.    4.    9.   11.    2.    3.    7.    0.    6.    2.    2.    1.   14.    5.    2.   14.
   1.    2.    0.    1.    0.    1.    0.    0.    0.    0.    0.    2.   10.    2.    0.    1.
   1.    0.    0.    0.    0.    1.    0.    0.    0.    0.    0.    1.    6.    5.    1.    1.
   0.    1.    1.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
   0.    1.    1.    9.    5.    0.    2.    0.    0.    0.    0.    0.    0.    0.    0.    0.
   1.    7.    5.    8.   21.    5.    1.    0.    0.    0.    0.    0.    1.    0.    1.    0.
  12.   15.    9.   11.   34.   19.    6.    1.    1.    4.    3.    1.    3.    1.    2.    3.
   1.   11.   11.   18.    6.   21.   11.    4.    4.    4.    4.    2.    3.    5.    1.    7.
   2.    5.    4.    2.    5.    9.   13.    5.   17.    9.    6.    5.   13.    2.    1.   12.
   3.    0.    3.    1.    3.    0.    9.    6.   14.    5.    6.    7.   10.    8.    3.   15.
   8.    2.    1.    1.    0.    2.    5.    3.   22.    5.    3.   13.   21.   15.    6.   20.
   1.    3.    0.    0.    0.    1.    1.    1.    6.    1.    1.    2.   11.   12.    5.    6.
   0.    0.    1.    0.    0.    0.    0.    0.    1.    1.    0.    1.    7.   10.    0.    0.
   0.    2.    2.    1.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
   0.    3.   10.   14.    1.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
   4.    7.   11.   16.   31.   17.    2.    0.    1.    0.    0.    0.    0.    0.    0.    1.
  18.   14.   15.   17.   17.   40.    6.    4.   11.    4.    7.    3.    2.    2.    3.   16.
  26.   12.    8.   11.   10.   21.   26.   13.   20.   13.    9.    4.   16.    6.    8.   35.
  21.    6.    3.    8.    5.   11.   31.   10.   40.   14.   15.   14.   23.   13.    9.   45.
   8.    8.    0.    3.    2.    3.   15.   12.   37.   17.   11.   15.   11.   21.   18.   43.
  14.    2.    4.    2.    2.    3.    7.    5.   48.   18.   16.   24.   48.   45.   26.   74.
   4.    1.    0.    0.    1.    2.    0.    1.   10.    0.    3.    3.   29.   27.   22.   14.
   1.    3.    0.    0.    0.    0.    0.    0.    1.    0.    2.    2.   16.   33.   12.    4.
  18.   18.   28.   26.   28.   20.   14.   13.   12.    6.    9.    6.    8.   19.    8.   10.
  41.   40.   80.   93.   87.   66.   31.   22.   29.   17.   23.    9.   18.   19.   28.   40.
  67.   53.   78.   99.  130.   77.   54.   50.   39.   31.   28.   24.   30.   19.   40.   50.
 209.  119.  120.  174.  227.  179.  192.  134.  171.  110.   98.   90.   89.   59.  118.  231.
 216.  175.  125.  187.  215.  168.  282.  234.  320.  203.  128.   80.  109.  115.  186.  390.
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 233.   99.   80.   54.  103.  102.  129.  147.  274.  132.   80.  103.  142.  196.  332.  406.
 278.  113.   52.   44.   87.   94.  107.   58.  345.  108.   91.  139.  311.  543.  821.  694.
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  21.   15.   15.   20.   24.   17.   26.   16.   26.   16.   17.   19.   30.   17.   23.   11.
  39.   29.   21.   41.   36.   43.   35.   43.   44.   40.   42.   35.   24.   19.   16.   23.
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 177. 131.  95.  87. 123. 134. 205. 234. 432. 273. 191. 116. 120. 116. 154. 200.
 180.  79.  69.  40.  68. 116. 152. 195. 423. 257. 165. 149. 193. 161. 255. 213.
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  10.  12.   9.  16.  20.  11.  18.  20.  11.  20.  17.  18.  16.  15.  13.  15.
  26.  13.  14.  10.  13.  18.  27.  34.  33.  29.  27.  36.  22.  18.  18.  20.
  53.  19.  18.  17.  15.  28.  43.  44.  75.  89.  99.  64.  43.  39.  60.  59.
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  12.   4.   3.   0.   0.   2.   7.  15.  40.  19.  31.  57.  85.  55.  67.  47.
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   7.   9.   6.   6.   8.   2.   1.   7.   8.   8.   1.  10.   8.   8.   7.  10.
   4.   5.   5.   4.   5.   3.   3.   2.   9.   1.   5.   8.   5.   6.   6.   9.
   4.   9.   5.   4.   5.   1.  11.   4.   8.   9.   6.   8.   7.   8.  11.  12.
  35.   8.  15.  13.   7.   5.  12.   5.  22.  19.  22.  19.  25.  22.  44.  34.
  17.   3.   5.   4.   3.   1.   8.   3.   6.  16.  36.  25.  28.  26.  53.  62.
   7.   4.   1.   0.   0.   1.   4.   3.   8.   4.  16.  40.  27.  20.  41.  29.
   0.   0.   0.   0.   0.   0.   2.   1.   1.   5.  10.  23.  37.  10.  17.   8.
   1.   0.   0.   0.   0.   0.   0.   1.   1.   0.   5.  14.  24.  32.   5.   4.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   2.   1.   2.   0.   0.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
 101. 0.50 2.35 3.47 4.59 6.82 9.06 11.313.5318.0122.37 55.0
0300.0300.0300.0300.0300.0300.0300.0300.0300.0300.0300.0300.0300.0300.0300.0300.
0500.0500.0500.0500.0500.0500.0500.0500.0500.0500.0500.0500.0500.0500.0500.0500.
   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.
   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.
0500.0500.0500.0500.0500.0500.0500.0500.0500.0500.0500.0500.0500.0500.0500.0500.
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 04/20/08

PRINTOUT OF INPUT CARDS

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   1     00010 01111 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000   2     Peach Bottom
Stack Release
   3     97.5 meters         10.1-96.3 meters
   4
   5     Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T          6         11 42771     1
   7          0.500  2584.000    54.300   131.400    97.500
   8       0.000  0.000  0.000  2.000  6.000  5.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  3.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  2.000 10.000 10.000 15.000  3.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       5.000  6.000 10.000 23.000 59.000 25.000  2.000  0.000  0.000  1.000  2.000  0.000  0.000  0.000  0.000  1.000
   9       1.000  3.000 11.000 18.000 43.000 40.000 10.000  4.000  2.000  2.000  2.000  0.000  1.000  3.000  0.000  0.000
   9       0.000  6.000 10.000 11.000 13.000 17.000  9.000  0.000  7.000  4.000  3.000  3.000  2.000  3.000  0.000  5.000
   9       0.000  1.000  2.000 13.000  8.000  3.000  9.000  0.000  4.000  3.000  0.000  6.000 13.000  7.000  3.000  4.000
   9       2.000  4.000  9.000 11.000  2.000  3.000  7.000  0.000  6.000  2.000  2.000  1.000 14.000  5.000  2.000 14.000
   9       1.000  2.000  0.000  1.000  0.000  1.000  0.000  0.000  0.000  0.000  0.000  2.000 10.000  2.000  0.000  1.000
   9       1.000  0.000  0.000  0.000  0.000  1.000  0.000  0.000  0.000  0.000  0.000  1.000  6.000  5.000  1.000  1.000
   9       0.000  1.000  1.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  1.000  1.000  9.000  5.000  0.000  2.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       1.000  7.000  5.000  8.000 21.000  5.000  1.000  0.000  0.000  0.000  0.000  0.000  1.000  0.000  1.000  0.000
   9      12.000 15.000  9.000 11.000 34.000 19.000  6.000  1.000  1.000  4.000  3.000  1.000  3.000  1.000  2.000  3.000
   9       1.000 11.000 11.000 18.000  6.000 21.000 11.000  4.000  4.000  4.000  4.000  2.000  3.000  5.000  1.000  7.000
   9       2.000  5.000  4.000  2.000  5.000  9.000 13.000  5.000 17.000  9.000  6.000  5.000 13.000  2.000  1.000 12.000
   9       3.000  0.000  3.000  1.000  3.000  0.000  9.000  6.000 14.000  5.000  6.000  7.000 10.000  8.000  3.000 15.000
   9       8.000  2.000  1.000  1.000  0.000  2.000  5.000  3.000 22.000  5.000  3.000 13.000 21.000 15.000  6.000 20.000
   9       1.000  3.000  0.000  0.000  0.000  1.000  1.000  1.000  6.000  1.000  1.000  2.000 11.000 12.000  5.000  6.000
   9       0.000  0.000  1.000  0.000  0.000  0.000  0.000  0.000  1.000  1.000  0.000  1.000  7.000 10.000  0.000  0.000
   9       0.000  2.000  2.000  1.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  3.000 10.000 14.000  1.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       4.000  7.000 11.000 16.000 31.000 17.000  2.000  0.000  1.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000
   9      18.000 14.000 15.000 17.000 17.000 40.000  6.000  4.000 11.000  4.000  7.000  3.000  2.000  2.000  3.000 16.000
   9      26.000 12.000  8.000 11.000 10.000 21.000 26.000 13.000 20.000 13.000  9.000  4.000 16.000  6.000  8.000 35.000
   9      21.000  6.000  3.000  8.000  5.000 11.000 31.000 10.000 40.000 14.000 15.000 14.000 23.000 13.000  9.000 45.000
   9       8.000  8.000  0.000  3.000  2.000  3.000 15.000 12.000 37.000 17.000 11.000 15.000 11.000 21.000 18.000 43.000
   9      14.000  2.000  4.000  2.000  2.000  3.000  7.000  5.000 48.000 18.000 16.000 24.000 48.000 45.000 26.000 74.000
   9       4.000  1.000  0.000  0.000  1.000  2.000  0.000  1.000 10.000  0.000  3.000  3.000 29.000 27.000 22.000 14.000
   9       1.000  3.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  0.000  2.000  2.000 16.000 33.000 12.000  4.000
   9      18.000 18.000 28.000 26.000 28.000 20.000 14.000 13.000 12.000  6.000  9.000  6.000  8.000 19.000  8.000 10.000
   9      41.000 40.000 80.000 93.000 87.000 66.000 31.000 22.000 29.000 17.000 23.000  9.000 18.000 19.000 28.000 40.000
   9      67.000 53.000 78.000 99.000130.000 77.000 54.000 50.000 39.000 31.000 28.000 24.000 30.000 19.000 40.000 50.000
   9     209.000119.000120.000174.000227.000179.000192.000134.000171.000110.000 98.000 90.000 89.000 59.000118.000231.000
   9     216.000175.000125.000187.000215.000168.000282.000234.000320.000203.000128.000 80.000109.000115.000186.000390.000
   9     237.000151.000118.000123.000134.000129.000212.000204.000330.000193.000142.000 89.000134.000160.000235.000438.000
   9     233.000 99.000 80.000 54.000103.000102.000129.000147.000274.000132.000 80.000103.000142.000196.000332.000406.000
   9     278.000113.000 52.000 44.000 87.000 94.000107.000 58.000345.000108.000 91.000139.000311.000543.000821.000694.000
   9      69.000 28.000 13.000 11.000 24.000 24.000 15.000 10.000 96.000 21.000 15.000 20.000211.000392.000489.000230.000
   9      25.000 10.000 10.000  2.000 18.000  7.000  8.000  1.000 40.000  6.000  5.000 12.000124.000227.000256.000 94.000
   9      21.000 15.000 15.000 20.000 24.000 17.000 26.000 16.000 26.000 16.000 17.000 19.000 30.000 17.000 23.000 11.000
   9      39.000 29.000 21.000 41.000 36.000 43.000 35.000 43.000 44.000 40.000 42.000 35.000 24.000 19.000 16.000 23.000
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   9      50.000 43.000 35.000 51.000 65.000 48.000 90.000 69.000 60.000 65.000 63.000 36.000 42.000 23.000 30.000 36.000
   9     137.000 92.000 91.000138.000168.000113.000186.000176.000263.000196.000164.000111.000102.000 82.000112.000115.000
   9     177.000131.000 95.000 87.000123.000134.000205.000234.000432.000273.000191.000116.000120.000116.000154.000200.000
   9     180.000 79.000 69.000 40.000 68.000116.000152.000195.000423.000257.000165.000149.000193.000161.000255.000213.000
   9     102.000 30.000 25.000  9.000 37.000 61.000 88.000142.000284.000182.000 99.000157.000213.000232.000277.000276.000
   9     110.000 26.000 17.000  6.000 39.000 46.000 69.000103.000367.000150.000159.000177.000417.000441.000493.000336.000
   9      24.000 10.000  3.000  4.000 11.000 20.000 16.000 11.000 72.000 19.000 27.000 38.000 88.000124.000101.000 48.000
   9       8.000  1.000  6.000  1.000 21.000  3.000  9.000  1.000  9.000  2.000  2.000  2.000 10.000 12.000 10.000 14.000
   9      16.000  7.000 13.000 10.000 11.000 12.000 10.000 12.000 12.000 12.000 15.000 15.000 14.000 13.000 13.000  7.000
   9      10.000 12.000  9.000 16.000 20.000 11.000 18.000 20.000 11.000 20.000 17.000 18.000 16.000 15.000 13.000 15.000
   9      26.000 13.000 14.000 10.000 13.000 18.000 27.000 34.000 33.000 29.000 27.000 36.000 22.000 18.000 18.000 20.000
   9      53.000 19.000 18.000 17.000 15.000 28.000 43.000 44.000 75.000 89.000 99.000 64.000 43.000 39.000 60.000 59.000
   9      62.000 19.000  7.000 10.000 14.000 18.000 37.000 32.000 89.000 72.000105.000 77.000 88.000 49.000 69.000 53.000
   9      29.000  9.000  6.000  0.000  5.000 11.000 18.000 46.000 46.000 46.000 66.000 85.000 85.000 74.000 87.000 57.000
   9      12.000  4.000  3.000  0.000  0.000  2.000  7.000 15.000 40.000 19.000 31.000 57.000 85.000 55.000 67.000 47.000
   9       2.000  0.000  0.000  0.000  0.000  1.000  4.000  6.000 24.000 20.000 23.000 80.000128.000104.000 61.000 19.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  3.000  1.000 21.000 23.000 23.000  0.000  5.000
   9       1.000  0.000  0.000  0.000  4.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  1.000  0.000  0.000  0.000
   9       7.000  9.000  6.000  6.000  8.000  2.000  1.000  7.000  8.000  8.000  1.000 10.000  8.000  8.000  7.000 10.000
   9       4.000  5.000  5.000  4.000  5.000  3.000  3.000  2.000  9.000  1.000  5.000  8.000  5.000  6.000  6.000  9.000
   9       4.000  9.000  5.000  4.000  5.000  1.000 11.000  4.000  8.000  9.000  6.000  8.000  7.000  8.000 11.000 12.000
   9      35.000  8.000 15.000 13.000  7.000  5.000 12.000  5.000 22.000 19.000 22.000 19.000 25.000 22.000 44.000 34.000
   9      17.000  3.000  5.000  4.000  3.000  1.000  8.000  3.000  6.000 16.000 36.000 25.000 28.000 26.000 53.000 62.000
   9       7.000  4.000  1.000  0.000  0.000  1.000  4.000  3.000  8.000  4.000 16.000 40.000 27.000 20.000 41.000 29.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  2.000  1.000  1.000  5.000 10.000 23.000 37.000 10.000 17.000  8.000
   9       1.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  1.000  0.000  5.000 14.000 24.000 32.000  5.000  4.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  2.000  1.000  2.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000 10        101.  0.500
2.350  3.470  4.590  6.820  9.060 11.300 13.530 18.010 22.370 55.000  0.000  0.000  0.000 11        300.   300.   300.   300.   300.   300.
300.   300.   300.   300.   300.   300.   300.   300.   300.   300. 11        500.   500.   500.   500.   500.   500.   500.   500.   500.   500.
500.   500.   500.   500.   500.   500. 12         1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0
1.0    1.0
  12         1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0 13        500.   500.
500.   500.   500.   500.   500.   500.   500.   500.   500.   500.   500.   500.   500.   500.
  14         0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 04/20/08

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

RELATIVE CONCENTRATION (X/Q) VALUES (SEC/CUBIC METER) VERSUS AVERAGING TIME

DOWNWIND SECTOR	DISTANCE (METERS)	0-2 HOURS	0-8 HOURS	8-24 HOURS	1-4 DAYS	4-30 DAYS	ANNUAL AVERAGE	HOURS PER YEAR MAX 0-2 HR X/Q IS EXCEEDED IN SECTOR	DOWNWIND SECTOR
S	300.	1.67E-06	4.03E-07	1.98E-07	4.22E-08	4.60E-09	3.06E-10	7.4	S
SSW	300.	1.71E-06	4.75E-07	2.51E-07	6.26E-08	8.55E-09	7.48E-10	154.3	SSW
SW	300.	2.21E-06	6.84E-07	3.81E-07	1.07E-07	1.72E-08	1.85E-09	17.7	SW
WSW	300.	2.54E-06	8.31E-07	4.75E-07	1.41E-07	2.48E-08	2.94E-09	24.9	WSW
W	300.	3.31E-06	1.15E-06	6.82E-07	2.18E-07	4.23E-08	5.69E-09	43.7	W
WNW	300.	2.49E-06	8.24E-07	4.74E-07	1.43E-07	2.56E-08	3.11E-09	22.4	WNW
NW	300.	1.70E-06	4.90E-07	2.63E-07	6.84E-08	9.88E-09	9.26E-10	6.6	NW
NNW	300.	1.37E-06	2.95E-07	1.37E-07	2.59E-08	2.38E-09	1.28E-10	3.6	NNW
N	300.	1.55E-06	3.98E-07	2.02E-07	4.62E-08	5.56E-09	4.17E-10	3.9	N
NNE	300.	1.30E-06	3.25E-07	1.63E-07	3.63E-08	4.21E-09	3.01E-10	2.5	NNE
NE	300.	1.28E-06	3.14E-07	1.55E-07	3.38E-08	3.78E-09	2.59E-10	3.2	NE
ENE	300.	1.20E-06	2.94E-07	1.46E-07	3.18E-08	3.56E-09	2.45E-10	2.0	ENE
E	300.	1.42E-06	4.06E-07	2.17E-07	5.59E-08	7.97E-09	7.36E-10	3.4	E
ESE	300.	1.19E-06	3.23E-07	1.68E-07	4.10E-08	5.39E-09	4.51E-10	4.7	ESE
SE	300.	1.28E-06	2.68E-07	1.23E-07	2.25E-08	1.97E-09	1.01E-10	3.0	SE
SSE	300.	1.64E-06	4.29E-07	2.20E-07	5.13E-08	6.36E-09	4.95E-10	4.4	SSE
MAX X/Q		3.31E-06				TOTAL HOURS AROUND SITE:		307.8	
SRP 2.3.4	300.	2.12E-06	7.98E-07	4.89E-07	1.69E-07	3.68E-08	5.69E-09		
SITE LIMIT		2.12E-06	7.98E-07	4.89E-07	1.69E-07	3.68E-08	5.69E-09		

0.5 PERCENT X/Q TO AN INDIVIDUAL IS LIMITING.

X/Q VALUES (SEC/CUBIC METER) FOR FUMIGATION AT THE BOUNDARY:

DOWNWIND SECTOR	DISTANCE (METERS)	FUMIGATION X/Q
S	300.	1.22E-04
SSW	300.	1.22E-04
SW	300.	1.22E-04
WSW	300.	1.22E-04
W	300.	1.22E-04
WNW	300.	1.22E-04
NW	300.	1.22E-04
NNW	300.	1.22E-04
N	300.	1.22E-04
NNE	300.	1.22E-04
NE	300.	1.22E-04
ENE	300.	1.22E-04
E	300.	1.22E-04
ESE	300.	1.22E-04
SE	300.	1.22E-04
SSE	300.	1.22E-04

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**NOTE**: VALUES ON THIS PAGE ARE APPROXIMATIONS ONLY.
          CHECK THE REASONABLENESS OF THE ENVELOPES
          COMPUTED FOR THE 0-2 HOUR VALUES.  FOR ANY
          FAULTY ENVELOPES, ADJUST THE ABOVE VALUES.
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 04/20/08

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

RELATIVE CONCENTRATION (X/Q) VALUES (SEC/CUBIC METER) VERSUS AVERAGING TIME

DOWNWIND SECTOR	DISTANCE (METERS)	0-2 HOURS	0-8 HOURS	8-24 HOURS	1-4 DAYS	4-30 DAYS	ANNUAL AVERAGE	HOURS PER YEAR MAX 0-2 HR X/Q IS EXCEEDED IN SECTOR	DOWNWIND SECTOR
S	500.	1.67E-06	5.31E-07	2.99E-07	8.62E-08	1.45E-08	1.63E-09	7.4	S
SSW	500.	1.71E-06	6.22E-07	3.76E-07	1.26E-07	2.61E-08	3.81E-09	154.3	SSW
SW	500.	2.21E-06	8.63E-07	5.40E-07	1.95E-07	4.52E-08	7.56E-09	17.7	SW
WSW	500.	2.54E-06	1.05E-06	6.74E-07	2.58E-07	6.50E-08	1.20E-08	24.9	WSW
W	500.	3.31E-06	1.45E-06	9.61E-07	3.93E-07	1.09E-07	2.26E-08	43.7	W
WNW	500.	2.49E-06	1.04E-06	6.69E-07	2.58E-07	6.61E-08	1.24E-08	22.4	WNW
NW	500.	1.70E-06	6.28E-07	3.83E-07	1.30E-07	2.78E-08	4.19E-09	6.6	NW
NNW	500.	1.37E-06	3.94E-07	2.12E-07	5.50E-08	7.95E-09	7.45E-10	3.6	NNW
N	500.	1.55E-06	5.27E-07	3.08E-07	9.55E-08	1.78E-08	2.28E-09	3.9	N
NNE	500.	1.30E-06	4.25E-07	2.43E-07	7.24E-08	1.27E-08	1.52E-09	2.5	NNE
NE	500.	1.28E-06	4.09E-07	2.31E-07	6.70E-08	1.13E-08	1.29E-09	3.2	NE
ENE	500.	1.20E-06	3.85E-07	2.18E-07	6.37E-08	1.09E-08	1.25E-09	2.0	ENE
E	500.	1.42E-06	5.24E-07	3.18E-07	1.08E-07	2.29E-08	3.44E-09	3.4	E
ESE	500.	1.19E-06	4.18E-07	2.48E-07	7.98E-08	1.57E-08	2.14E-09	4.7	ESE
SE	500.	1.28E-06	3.62E-07	1.93E-07	4.90E-08	6.87E-09	6.20E-10	3.0	SE
SSE	500.	1.64E-06	5.64E-07	3.31E-07	1.04E-07	1.98E-08	2.60E-09	4.4	SSE
MAX X/Q		3.31E-06				TOTAL HOURS AROUND SITE:		307.8	
SRP 2.3.4	500.	2.12E-06	1.00E-06	6.88E-07	3.05E-07	9.46E-08	2.26E-08		
SITE LIMIT		2.12E-06	1.00E-06	6.88E-07	3.05E-07	9.46E-08	2.26E-08		

0.5 PERCENT X/Q TO AN INDIVIDUAL IS LIMITING.

X/Q VALUES (SEC/CUBIC METER) FOR FUMIGATION AT THE BOUNDARY:

DOWNWIND SECTOR	DISTANCE (METERS)	FUMIGATION X/Q
S	500.	7.68E-05
SSW	500.	7.68E-05
SW	500.	7.68E-05
WSW	500.	7.68E-05
W	500.	7.68E-05
WNW	500.	7.68E-05
NW	500.	7.68E-05
NNW	500.	7.68E-05
N	500.	7.68E-05
NNE	500.	7.68E-05
NE	500.	7.68E-05
ENE	500.	7.68E-05
E	500.	7.68E-05
ESE	500.	7.68E-05
SE	500.	7.68E-05
SSE	500.	7.68E-05

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**NOTE**: VALUES ON THIS PAGE ARE APPROXIMATIONS ONLY.
          CHECK THE REASONABLENESS OF THE ENVELOPES
          COMPUTED FOR THE 0-2 HOUR VALUES.  FOR ANY
          FAULTY ENVELOPES, ADJUST THE ABOVE VALUES.
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Off-Gas Stack to Control Room Intake (750 and 1000 m; Tower 2 Meteorology; RG 1.23, Revision 1 Wind Speed Categories)

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   1  1111
Peach Bottom                                  Stack Release
97.5 meters          10.1-96.3 meters

Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
   11     1
2584. 54.3131.4 97.5
    0     0    0    2    6    5    0
   0.    0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   0.    0.   0.   0.   3.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   0.    2.  10.  10.  15.   3.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   5.    6.  10.  23.  59.  25.   2.   0.   0.   1.   2.   0.   0.   0.   0.   1.
   1.    3.  11.  18.  43.  40.  10.   4.   2.   2.   2.   0.   1.   3.   0.   0.
   0.    6.  10.  11.  13.  17.   9.   0.   7.   4.   3.   3.   2.   3.   0.   5.
   0.    1.   2.  13.   8.   3.   9.   0.   4.   3.   0.   6.  13.   7.   3.   4.
   2.    4.   9.  11.   2.   3.   7.   0.   6.   2.   2.   1.  14.   5.   2.  14.
   1.    2.   0.   1.   0.   1.   0.   0.   0.   0.   0.   2.  10.   2.   0.   1.
   1.    0.   0.   0.   0.   1.   0.   0.   0.   0.   0.   1.   6.   5.   1.   1.
   0.    1.   1.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   0.    1.   1.   9.   5.   0.   2.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   1.    7.   5.   8.  21.   5.   1.   0.   0.   0.   0.   0.   1.   0.   1.   0.
  12.   15.   9.  11.  34.  19.   6.   1.   1.   4.   3.   1.   3.   1.   2.   3.
   1.   11.  11.  18.   6.  21.  11.   4.   4.   4.   4.   2.   3.   5.   1.   7.
   2.    5.   4.   2.   5.   9.  13.   5.  17.   9.   6.   5.  13.   2.   1.  12.
   3.    0.   3.   1.   3.   0.   9.   6.  14.   5.   6.   7.  10.   8.   3.  15.
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  18.   14.  15.  17.  17.  40.   6.   4.  11.   4.   7.   3.   2.   2.   3.  16.
  26.   12.   8.  11.  10.  21.  26.  13.  20.  13.   9.   4.  16.   6.   8.  35.
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  18.   18.  28.  26.  28.  20.  14.  13.  12.   6.   9.   6.   8.  19.   8.  10.
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 216.  175. 125. 187. 215. 168. 282. 234. 320. 203. 128.  80. 109. 115. 186. 390.
 237.  151. 118. 123. 134. 129. 212. 204. 330. 193. 142.  89. 134. 160. 235. 438.
 233.   99.  80.  54. 103. 102. 129. 147. 274. 132.  80. 103. 142. 196. 332. 406.
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  39.   29.  21.  41.  36.  43.  35.  43.  44.  40.  42.  35.  24.  19.  16.  23.
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 102.  30.  25.   9.  37.  61.  88. 142. 284. 182.  99. 157. 213. 232. 277. 276.
 110.  26.  17.   6.  39.  46.  69. 103. 367. 150. 159. 177. 417. 441. 493. 336.
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  10.  12.   9.  16.  20.  11.  18.  20.  11.  20.  17.  18.  16.  15.  13.  15.
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   4.   5.   5.   4.   5.   3.   3.   2.   9.   1.   5.   8.   5.   6.   6.   9.
   4.   9.   5.   4.   5.   1.  11.   4.   8.   9.   6.   8.   7.   8.  11.  12.
  35.   8.  15.  13.   7.   5.  12.   5.  22.  19.  22.  19.  25.  22.  44.  34.
  17.   3.   5.   4.   3.   1.   8.   3.   6.  16.  36.  25.  28.  26.  53.  62.
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 101. 0.50 2.35 3.47 4.59 6.82 9.06 11.313.5318.0122.37 55.0
0750.0750.0750.0750.0750.0750.0750.0750.0750.0750.0750.0750.0750.0750.0750.0750.
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0000.0000.0000.0000.0000.0000.0000.0000.0000.0000.0000.0000.0000.0000.0000.0000.
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 04/20/08

PRINTOUT OF INPUT CARDS

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   1     00010 01111 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000   2     Peach Bottom
Stack Release
   3     97.5 meters          10.1-96.3 meters
   4
   5     Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T          6         11 42771     1
   7          0.500  2584.000    54.300   131.400    97.500
   8       0.000  0.000  0.000  2.000  6.000  5.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
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   9       5.000  6.000 10.000 23.000 59.000 25.000  2.000  0.000  0.000  1.000  2.000  0.000  0.000  0.000  0.000  1.000
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   9       0.000  6.000 10.000 11.000 13.000 17.000  9.000  0.000  7.000  4.000  3.000  3.000  2.000  3.000  0.000  5.000
   9       0.000  1.000  2.000 13.000  8.000  3.000  9.000  0.000  4.000  3.000  0.000  6.000 13.000  7.000  3.000  4.000
   9       2.000  4.000  9.000 11.000  2.000  3.000  7.000  0.000  6.000  2.000  2.000  1.000 14.000  5.000  2.000 14.000
   9       1.000  2.000  0.000  1.000  0.000  1.000  0.000  0.000  0.000  0.000  0.000  2.000 10.000  2.000  0.000  1.000
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   9       1.000 11.000 11.000 18.000  6.000 21.000 11.000  4.000  4.000  4.000  4.000  2.000  3.000  5.000  1.000  7.000
   9       2.000  5.000  4.000  2.000  5.000  9.000 13.000  5.000 17.000  9.000  6.000  5.000 13.000  2.000  1.000 12.000
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   9       0.000  0.000  1.000  0.000  0.000  0.000  0.000  0.000  1.000  1.000  0.000  1.000  7.000 10.000  0.000  0.000
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   9       0.000  3.000 10.000 14.000  1.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       4.000  7.000 11.000 16.000 31.000 17.000  2.000  0.000  1.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000
   9      18.000 14.000 15.000 17.000 17.000 40.000  6.000  4.000 11.000  4.000  7.000  3.000  2.000  2.000  3.000 16.000
   9      26.000 12.000  8.000 11.000 10.000 21.000 26.000 13.000 20.000 13.000  9.000  4.000 16.000  6.000  8.000 35.000
   9      21.000  6.000  3.000  8.000  5.000 11.000 31.000 10.000 40.000 14.000 15.000 14.000 23.000 13.000  9.000 45.000
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   9       1.000  3.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  0.000  2.000  2.000 16.000 33.000 12.000  4.000
   9      18.000 18.000 28.000 26.000 28.000 20.000 14.000 13.000 12.000  6.000  9.000  6.000  8.000 19.000  8.000 10.000
   9      41.000 40.000 80.000 93.000 87.000 66.000 31.000 22.000 29.000 17.000 23.000  9.000 18.000 19.000 28.000 40.000
   9      67.000 53.000 78.000 99.000130.000 77.000 54.000 50.000 39.000 31.000 28.000 24.000 30.000 19.000 40.000 50.000
   9     209.000119.000120.000174.000227.000179.000192.000134.000171.000110.000 98.000 90.000 89.000 59.000118.000231.000
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   9     237.000151.000118.000123.000134.000129.000212.000204.000330.000193.000142.000 89.000134.000160.000235.000438.000
   9     233.000 99.000 80.000 54.000103.000102.000129.000147.000274.000132.000 80.000103.000142.000196.000332.000406.000
   9     278.000113.000 52.000 44.000 87.000 94.000107.000 58.000345.000108.000 91.000139.000311.000543.000821.000694.000
   9      69.000 28.000 13.000 11.000 24.000 24.000 15.000 10.000 96.000 21.000 15.000 20.000211.000392.000489.000230.000
   9      25.000 10.000 10.000  2.000 18.000  7.000  8.000  1.000 40.000  6.000  5.000 12.000124.000227.000256.000 94.000
   9      21.000 15.000 15.000 20.000 24.000 17.000 26.000 16.000 26.000 16.000 17.000 19.000 30.000 17.000 23.000 11.000
   9      39.000 29.000 21.000 41.000 36.000 43.000 35.000 43.000 44.000 40.000 42.000 35.000 24.000 19.000 16.000 23.000
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   9      50.000 43.000 35.000 51.000 65.000 48.000 90.000 69.000 60.000 65.000 63.000 36.000 42.000 23.000 30.000 36.000
   9     137.000 92.000 91.000138.000168.000113.000186.000176.000263.000196.000164.000111.000102.000 82.000112.000115.000
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   9       8.000  1.000  6.000  1.000 21.000  3.000  9.000  1.000  9.000  2.000  2.000  2.000 10.000 12.000 10.000 14.000
   9      16.000  7.000 13.000 10.000 11.000 12.000 10.000 12.000 12.000 12.000 15.000 15.000 14.000 13.000 13.000  7.000
   9      10.000 12.000  9.000 16.000 20.000 11.000 18.000 20.000 11.000 20.000 17.000 18.000 16.000 15.000 13.000 15.000
   9      26.000 13.000 14.000 10.000 13.000 18.000 27.000 34.000 33.000 29.000 27.000 36.000 22.000 18.000 18.000 20.000
   9      53.000 19.000 18.000 17.000 15.000 28.000 43.000 44.000 75.000 89.000 99.000 64.000 43.000 39.000 60.000 59.000
   9      62.000 19.000  7.000 10.000 14.000 18.000 37.000 32.000 89.000 72.000105.000 77.000 88.000 49.000 69.000 53.000
   9      29.000  9.000  6.000  0.000  5.000 11.000 18.000 46.000 46.000 46.000 66.000 85.000 85.000 74.000 87.000 57.000
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   9       4.000  9.000  5.000  4.000  5.000  1.000 11.000  4.000  8.000  9.000  6.000  8.000  7.000  8.000 11.000 12.000
   9      35.000  8.000 15.000 13.000  7.000  5.000 12.000  5.000 22.000 19.000 22.000 19.000 25.000 22.000 44.000 34.000
   9      17.000  3.000  5.000  4.000  3.000  1.000  8.000  3.000  6.000 16.000 36.000 25.000 28.000 26.000 53.000 62.000
   9       7.000  4.000  1.000  0.000  0.000  1.000  4.000  3.000  8.000  4.000 16.000 40.000 27.000 20.000 41.000 29.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  2.000  1.000  1.000  5.000 10.000 23.000 37.000 10.000 17.000  8.000
   9       1.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  1.000  0.000  5.000 14.000 24.000 32.000  5.000  4.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  2.000  1.000  2.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  10        101.  0.500
2.350  3.470  4.590  6.820  9.060 11.300 13.530 18.010 22.370 55.000  0.000  0.000  0.000  11        750.   750.   750.   750.   750.   750.
750.   750.   750.   750.   750.   750.   750.   750.   750.   750.  11        1000.  1000.  1000.  1000.  1000.  1000.  1000.  1000.  1000.  1000.
1000.  1000.  1000.  1000.  1000.  1000.  12          1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0
1.0    1.0    1.0
  12         1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0  13        500.   500.
500.   500.   500.   500.   500.   500.   500.   500.   500.   500.   500.   500.   500.   500.
  14         0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 04/20/08

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

RELATIVE CONCENTRATION (X/Q) VALUES (SEC/CUBIC METER)
VERSUS
AVERAGING TIME

DOWNWIND SECTOR	DISTANCE (METERS)	0-2 HOURS	0-8 HOURS	8-24 HOURS	1-4 DAYS	4-30 DAYS	ANNUAL AVERAGE	HOURS PER YEAR MAX 0-2 HR X/Q IS EXCEEDED IN SECTOR	DOWNWIND SECTOR
S	750.	1.66E-06	5.73E-07	3.37E-07	1.06E-07	2.02E-08	2.66E-09	13.0	S
SSW	750.	1.66E-06	6.37E-07	3.95E-07	1.40E-07	3.15E-08	5.09E-09	220.3	SSW
SW	750.	2.07E-06	7.99E-07	4.96E-07	1.76E-07	3.99E-08	6.48E-09	26.1	SW
WSW	750.	2.32E-06	9.45E-07	6.03E-07	2.28E-07	5.62E-08	1.01E-08	32.8	WSW
W	750.	2.60E-06	1.13E-06	7.45E-07	3.02E-07	8.26E-08	1.69E-08	43.7	W
WNW	750.	2.20E-06	9.01E-07	5.76E-07	2.19E-07	5.44E-08	9.90E-09	25.6	WNW
NW	750.	1.62E-06	6.16E-07	3.79E-07	1.33E-07	2.93E-08	4.62E-09	10.2	NW
NNW	750.	1.37E-06	4.32E-07	2.43E-07	6.98E-08	1.16E-08	1.30E-09	5.9	NNW
N	750.	1.51E-06	5.60E-07	3.42E-07	1.17E-07	2.51E-08	3.81E-09	7.6	N
NNE	750.	1.28E-06	4.44E-07	2.62E-07	8.29E-08	1.59E-08	2.11E-09	4.7	NNE
NE	750.	1.27E-06	4.30E-07	2.50E-07	7.69E-08	1.42E-08	1.79E-09	6.3	NE
ENE	750.	1.19E-06	4.05E-07	2.37E-07	7.36E-08	1.38E-08	1.77E-09	4.5	ENE
E	750.	1.33E-06	5.13E-07	3.18E-07	1.13E-07	2.55E-08	4.14E-09	6.7	E
ESE	750.	1.16E-06	4.28E-07	2.60E-07	8.81E-08	1.86E-08	2.78E-09	7.1	ESE
SE	750.	1.27E-06	4.06E-07	2.30E-07	6.67E-08	1.13E-08	1.29E-09	5.6	SE
SSE	750.	1.58E-06	5.95E-07	3.65E-07	1.27E-07	2.78E-08	4.34E-09	9.9	SSE
MAX X/Q		2.60E-06				TOTAL HOURS AROUND SITE:		430.1	
SRP 2.3.4	750.	2.00E-06	9.08E-07	6.12E-07	2.60E-07	7.61E-08	1.69E-08		
SITE LIMIT		2.00E-06	9.08E-07	6.12E-07	2.60E-07	7.61E-08	1.69E-08		

0.5 PERCENT X/Q TO AN INDIVIDUAL IS LIMITING.

X/Q VALUES (SEC/CUBIC METER) FOR FUMIGATION AT THE BOUNDARY:

DOWNWIND SECTOR	DISTANCE (METERS)	FUMIGATION X/Q
S	750.	5.32E-05
SSW	750.	5.32E-05
SW	750.	5.32E-05
WSW	750.	5.32E-05
W	750.	5.32E-05
WNW	750.	5.32E-05
NW	750.	5.32E-05
NNW	750.	5.32E-05
N	750.	5.32E-05
NNE	750.	5.32E-05
NE	750.	5.32E-05
ENE	750.	5.32E-05
E	750.	5.32E-05
ESE	750.	5.32E-05
SE	750.	5.32E-05
SSE	750.	5.32E-05

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**NOTE**: VALUES ON THIS PAGE ARE APPROXIMATIONS ONLY.
          CHECK THE REASONABLENESS OF THE ENVELOPES
          COMPUTED FOR THE 0-2 HOUR VALUES.  FOR ANY
          FAULTY ENVELOPES, ADJUST THE ABOVE VALUES.
```

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 04/20/08

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

RELATIVE CONCENTRATION (X/Q) VALUES (SEC/CUBIC METER)
VERSUS
AVERAGING TIME

DOWNWIND SECTOR	DISTANCE (METERS)	0-2 HOURS	0-8 HOURS	8-24 HOURS	1-4 DAYS	4-30 DAYS	ANNUAL AVERAGE	HOURS PER YEAR MAX 0-2 HR X/Q IS EXCEEDED IN SECTOR	DOWNWIND SECTOR
S	1000.	1.64E-06	5.99E-07	3.62E-07	1.21E-07	2.51E-08	3.67E-09	16.8	S
SSW	1000.	1.61E-06	6.29E-07	3.94E-07	1.42E-07	3.31E-08	5.54E-09	263.5	SSW
SW	1000.	1.95E-06	7.52E-07	4.67E-07	1.66E-07	3.76E-08	6.11E-09	30.5	SW
WSW	1000.	2.19E-06	8.86E-07	5.63E-07	2.11E-07	5.14E-08	9.15E-09	37.7	WSW
W	1000.	2.32E-06	9.89E-07	6.45E-07	2.55E-07	6.75E-08	1.33E-08	43.7	W
WNW	1000.	2.05E-06	8.31E-07	5.30E-07	1.99E-07	4.89E-08	8.78E-09	32.8	WNW
NW	1000.	1.58E-06	6.09E-07	3.78E-07	1.34E-07	3.02E-08	4.89E-09	12.6	NW
NNW	1000.	1.35E-06	4.51E-07	2.60E-07	7.88E-08	1.42E-08	1.74E-09	7.9	NNW
N	1000.	1.50E-06	5.86E-07	3.67E-07	1.33E-07	3.08E-08	5.15E-09	10.3	N
NNE	1000.	1.27E-06	4.54E-07	2.72E-07	8.94E-08	1.81E-08	2.57E-09	6.6	NNE
NE	1000.	1.26E-06	4.41E-07	2.62E-07	8.40E-08	1.64E-08	2.24E-09	8.2	NE
ENE	1000.	1.18E-06	4.15E-07	2.46E-07	7.96E-08	1.57E-08	2.16E-09	6.1	ENE
E	1000.	1.31E-06	5.16E-07	3.24E-07	1.18E-07	2.75E-08	4.66E-09	8.8	E
ESE	1000.	1.13E-06	4.34E-07	2.69E-07	9.49E-08	2.13E-08	3.42E-09	9.0	ESE
SE	1000.	1.26E-06	4.37E-07	2.57E-07	8.10E-08	1.55E-08	2.04E-09	7.7	SE
SSE	1000.	1.57E-06	6.31E-07	3.99E-07	1.48E-07	3.56E-08	6.23E-09	13.4	SSE
MAX X/Q		2.32E-06				TOTAL HOURS AROUND SITE:		515.8	
SRP 2.3.4	1000.	1.91E-06	8.41E-07	5.57E-07	2.28E-07	6.35E-08	1.33E-08		
SITE LIMIT		1.91E-06	8.41E-07	5.57E-07	2.28E-07	6.35E-08	1.33E-08		

THE FIVE-PERCENT-FOR-THE-ENTIRE-SITE X/Q IS LIMITING.

X/Q VALUES (SEC/CUBIC METER) FOR FUMIGATION AT THE BOUNDARY:

DOWNWIND SECTOR	DISTANCE (METERS)	FUMIGATION X/Q
S	1000.	4.11E-05
SSW	1000.	4.11E-05
SW	1000.	4.11E-05
WSW	1000.	4.11E-05
W	1000.	4.11E-05
WNW	1000.	4.11E-05
NW	1000.	4.11E-05
NNW	1000.	4.11E-05
N	1000.	4.11E-05
NNE	1000.	4.11E-05
NE	1000.	4.11E-05
ENE	1000.	4.11E-05
E	1000.	4.11E-05
ESE	1000.	4.11E-05
SE	1000.	4.11E-05
SSE	1000.	4.11E-05

```
**NOTE**: VALUES ON THIS PAGE ARE APPROXIMATIONS ONLY.
          CHECK THE REASONABLENESS OF THE ENVELOPES
          COMPUTED FOR THE 0-2 HOUR VALUES.  FOR ANY
          FAULTY ENVELOPES, ADJUST THE ABOVE VALUES.
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Off-Gas Stack to Control Room Intake (1500 and 2000 m; Tower 2 Meteorology; RG 1.23, Revision 1 Wind Speed Categories)

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   1  1111
Peach Bottom                                  Stack Release
97.5 meters          10.1-96.3 meters

Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
   11    1
2584. 54.3131.4 97.5
    0    0    0    2    6    5    0
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   0.   0.   0.   0.   3.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   0.   2.  10.  10.  15.   3.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   5.   6.  10.  23.  59.  25.   2.   0.   0.   1.   2.   0.   0.   0.   0.   1.
   1.   3.  11.  18.  43.  40.  10.   4.   2.   2.   2.   0.   1.   3.   0.   0.
   0.   6.  10.  11.  13.  17.   9.   0.   7.   4.   3.   3.   2.   3.   0.   5.
   0.   1.   2.  13.   8.   3.   9.   0.   4.   3.   0.   6.  13.   7.   3.   4.
   2.   4.   9.  11.   2.   3.   7.   0.   6.   2.   2.   1.  14.   5.   2.  14.
   1.   2.   0.   1.   0.   1.   0.   0.   0.   0.   0.   2.  10.   2.   0.   1.
   1.   0.   0.   0.   0.   1.   0.   0.   0.   0.   0.   1.   6.   5.   1.   1.
   0.   1.   1.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   0.   1.   1.   9.   5.   0.   2.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   1.   7.   5.   8.  21.   5.   1.   0.   0.   0.   0.   0.   1.   0.   1.   0.
  12.  15.   9.  11.  34.  19.   6.   1.   1.   4.   3.   1.   3.   1.   2.   3.
   1.  11.  11.  18.   6.  21.  11.   4.   4.   4.   4.   2.   3.   5.   1.   7.
   2.   5.   4.   2.   5.   9.  13.   5.  17.   9.   6.   5.  13.   2.   1.  12.
   3.   0.   3.   1.   3.   0.   9.   6.  14.   5.   6.   7.  10.   8.   3.  15.
   8.   2.   1.   1.   0.   2.   5.   3.  22.   5.   3.  13.  21.  15.   6.  20.
   1.   3.   0.   0.   0.   1.   1.   1.   6.   1.   1.   2.  11.  12.   5.   6.
   0.   0.   1.   0.   0.   0.   0.   0.   1.   1.   0.   1.   7.  10.   0.   0.
   0.   2.   2.   1.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   0.   3.  10.  14.   1.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   4.   7.  11.  16.  31.  17.   2.   0.   1.   0.   0.   0.   0.   0.   0.   1.
  18.  14.  15.  17.  17.  40.   6.   4.  11.   4.   7.   3.   2.   2.   3.  16.
  26.  12.   8.  11.  10.  21.  26.  13.  20.  13.   9.   4.  16.   6.   8.  35.
  21.   6.   3.   8.   5.  11.  31.  10.  40.  14.  15.  14.  23.  13.   9.  45.
   8.   8.   0.   3.   2.   3.  15.  12.  37.  17.  11.  15.  11.  21.  18.  43.
  14.   2.   4.   2.   2.   3.   7.   5.  48.  18.  16.  24.  48.  45.  26.  74.
   4.   1.   0.   0.   1.   2.   0.   1.  10.   0.   3.   3.  29.  27.  22.  14.
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  18.  18.  28.  26.  28.  20.  14.  13.  12.   6.   9.   6.   8.  19.   8.  10.
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 237. 151. 118. 123. 134. 129. 212. 204. 330. 193. 142.  89. 134. 160. 235. 438.
 233.  99.  80.  54. 103. 102. 129. 147. 274. 132.  80. 103. 142. 196. 332. 406.
 278. 113.  52.  44.  87.  94. 107.  58. 345. 108.  91. 139. 311. 543. 821. 694.
  69.  28.  13.  11.  24.  24.  15.  10.  96.  21.  15.  20. 211. 392. 489. 230.
  25.  10.  10.   2.  18.   7.   8.   1.  40.   6.   5.  12. 124. 227. 256.  94.
  21.  15.  15.  20.  24.  17.  26.  16.  26.  16.  17.  19.  30.  17.  23.  11.
  39.  29.  21.  41.  36.  43.  35.  43.  44.  40.  42.  35.  24.  19.  16.  23.
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 137.  92.  91. 138. 168. 113. 186. 176. 263. 196. 164. 111. 102.  82. 112. 115.
 177. 131.  95.  87. 123. 134. 205. 234. 432. 273. 191. 116. 120. 116. 154. 200.
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  10.  12.   9.  16.  20.  11.  18.  20.  11.  20.  17.  18.  16.  15.  13.  15.
  26.  13.  14.  10.  13.  18.  27.  34.  33.  29.  27.  36.  22.  18.  18.  20.
  53.  19.  18.  17.  15.  28.  43.  44.  75.  89.  99.  64.  43.  39.  60.  59.
  62.  19.   7.  10.  14.  18.  37.  32.  89.  72. 105.  77.  88.  49.  69.  53.
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   4.   5.   5.   4.   5.   3.   3.   2.   9.   1.   5.   8.   5.   6.   6.   9.
   4.   9.   5.   4.   5.   1.  11.   4.   8.   9.   6.   8.   7.   8.  11.  12.
  35.   8.  15.  13.   7.   5.  12.   5.  22.  19.  22.  19.  25.  22.  44.  34.
  17.   3.   5.   4.   3.   1.   8.   3.   6.  16.  36.  25.  28.  26.  53.  62.
   7.   4.   1.   0.   0.   1.   4.   3.   8.   4.  16.  40.  27.  20.  41.  29.
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   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   2.   1.   2.   0.   0.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
 101. 0.50 2.35 3.47 4.59 6.82 9.06 11.313.5318.0122.37 55.0
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 04/20/08

PRINTOUT OF INPUT CARDS

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   1     00010 01111 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000   2     Peach Bottom
Stack Release
   3     97.5 meters          10.1-96.3 meters
   4
   5     Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T          6          11 42771     1
   7          0.500  2584.000    54.300   131.400    97.500
   8       0.000  0.000  0.000  2.000  6.000  5.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  3.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  2.000 10.000 10.000 15.000  3.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       5.000  6.000 10.000 23.000 59.000 25.000  2.000  0.000  0.000  1.000  2.000  0.000  0.000  0.000  0.000  1.000
   9       1.000  3.000 11.000 18.000 43.000 40.000 10.000  4.000  2.000  2.000  2.000  0.000  1.000  3.000  0.000  0.000
   9       0.000  6.000 10.000 11.000 13.000 17.000  9.000  0.000  7.000  4.000  3.000  3.000  2.000  3.000  0.000  5.000
   9       0.000  1.000  2.000 13.000  8.000  3.000  9.000  0.000  4.000  3.000  0.000  6.000 13.000  7.000  3.000  4.000
   9       2.000  4.000  9.000 11.000  2.000  3.000  7.000  0.000  6.000  2.000  2.000  1.000 14.000  5.000  2.000 14.000
   9       1.000  2.000  0.000  1.000  0.000  1.000  0.000  0.000  0.000  0.000  0.000  2.000 10.000  2.000  0.000  1.000
   9       1.000  0.000  0.000  0.000  0.000  1.000  0.000  0.000  0.000  0.000  0.000  1.000  6.000  5.000  1.000  1.000
   9       0.000  1.000  1.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  1.000  1.000  9.000  5.000  0.000  2.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       1.000  7.000  5.000  8.000 21.000  5.000  1.000  0.000  0.000  0.000  0.000  0.000  1.000  0.000  1.000  0.000
   9      12.000 15.000  9.000 11.000 34.000 19.000  6.000  1.000  1.000  4.000  3.000  1.000  3.000  1.000  2.000  3.000
   9       1.000 11.000 11.000 18.000  6.000 21.000 11.000  4.000  4.000  4.000  4.000  2.000  3.000  5.000  1.000  7.000
   9       2.000  5.000  4.000  2.000  5.000  9.000 13.000  5.000 17.000  9.000  6.000  5.000 13.000  2.000  1.000 12.000
   9       3.000  0.000  3.000  1.000  3.000  0.000  9.000  6.000 14.000  5.000  6.000  7.000 10.000  8.000  3.000 15.000
   9       8.000  2.000  1.000  1.000  0.000  2.000  5.000  3.000 22.000  5.000  3.000 13.000 21.000 15.000  6.000 20.000
   9       1.000  3.000  0.000  0.000  0.000  1.000  1.000  1.000  6.000  1.000  1.000  2.000 11.000 12.000  5.000  6.000
   9       0.000  0.000  1.000  0.000  0.000  0.000  0.000  0.000  1.000  1.000  0.000  1.000  7.000 10.000  0.000  0.000
   9       0.000  2.000  2.000  1.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  3.000 10.000 14.000  1.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       4.000  7.000 11.000 16.000 31.000 17.000  2.000  0.000  1.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000
   9      18.000 14.000 15.000 17.000 17.000 40.000  6.000  4.000 11.000  4.000  7.000  3.000  2.000  2.000  3.000 16.000
   9      26.000 12.000  8.000 11.000 10.000 21.000 26.000 13.000 20.000 13.000  9.000  4.000 16.000  6.000  8.000 35.000
   9      21.000  6.000  3.000  8.000  5.000 11.000 31.000 10.000 40.000 14.000 15.000 14.000 23.000 13.000  9.000 45.000
   9       8.000  8.000  0.000  3.000  2.000  3.000 15.000 12.000 37.000 17.000 11.000 15.000 11.000 21.000 18.000 43.000
   9      14.000  2.000  4.000  2.000  2.000  3.000  7.000  5.000 48.000 18.000 16.000 24.000 48.000 45.000 26.000 74.000
   9       4.000  1.000  0.000  0.000  1.000  2.000  0.000  1.000 10.000  0.000  3.000  3.000 29.000 27.000 22.000 14.000
   9       1.000  3.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  0.000  2.000  2.000 16.000 33.000 12.000  4.000
   9      18.000 18.000 28.000 26.000 28.000 20.000 14.000 13.000 12.000  6.000  9.000  6.000  8.000 19.000  8.000 10.000
   9      41.000 40.000 80.000 93.000 87.000 66.000 31.000 22.000 29.000 17.000 23.000  9.000 18.000 19.000 28.000 40.000
   9      67.000 53.000 78.000 99.000130.000 77.000 54.000 50.000 39.000 31.000 28.000 24.000 30.000 19.000 40.000 50.000
   9     209.000119.000120.000174.000227.000179.000192.000134.000171.000110.000 98.000 90.000 89.000 59.000118.000231.000
   9     216.000175.000125.000187.000215.000168.000282.000234.000320.000203.000128.000 80.000109.000115.000186.000390.000
   9     237.000151.000118.000123.000134.000129.000212.000204.000330.000193.000142.000 89.000134.000160.000235.000438.000
   9     233.000 99.000 80.000 54.000103.000102.000129.000147.000274.000132.000 80.000103.000142.000196.000332.000406.000
   9     278.000113.000 52.000 44.000 87.000 94.000107.000 58.000345.000108.000 91.000139.000311.000543.000821.000694.000
   9      69.000 28.000 13.000 11.000 24.000 24.000 15.000 10.000 96.000 21.000 15.000 20.000211.000392.000489.000230.000
   9      25.000 10.000 10.000  2.000 18.000  7.000  8.000  1.000 40.000  6.000  5.000 12.000124.000227.000256.000 94.000
   9      21.000 15.000 15.000 20.000 24.000 17.000 26.000 16.000 26.000 16.000 17.000 19.000 30.000 17.000 23.000 11.000
   9      39.000 29.000 21.000 41.000 36.000 43.000 35.000 43.000 44.000 40.000 42.000 35.000 24.000 19.000 16.000 23.000
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   9      50.000 43.000 35.000 51.000 65.000 48.000 90.000 69.000 60.000 65.000 63.000 36.000 42.000 23.000 30.000 36.000
   9     137.000 92.000 91.000138.000168.000113.000186.000176.000263.000196.000164.000111.000102.000 82.000112.000115.000
   9     177.000131.000 95.000 87.000123.000134.000205.000234.000432.000273.000191.000116.000120.000116.000154.000200.000
   9     180.000 79.000 69.000 40.000 68.000116.000152.000195.000423.000257.000165.000149.000193.000161.000255.000213.000
   9     102.000 30.000 25.000  9.000 37.000 61.000 88.000142.000284.000182.000 99.000157.000213.000232.000277.000276.000
   9     110.000 26.000 17.000  6.000 39.000 46.000 69.000103.000367.000150.000159.000177.000417.000441.000493.000336.000
   9      24.000 10.000  3.000  4.000 11.000 20.000 16.000 11.000 72.000 19.000 27.000 38.000 88.000124.000101.000 48.000
   9       8.000  1.000  6.000  1.000 21.000  3.000  9.000  1.000  9.000  2.000  2.000  2.000 10.000 12.000 10.000 14.000
   9      16.000  7.000 13.000 10.000 11.000 12.000 10.000 12.000 12.000 12.000 15.000 15.000 14.000 13.000 13.000  7.000
   9      10.000 12.000  9.000 16.000 20.000 11.000 18.000 20.000 11.000 20.000 17.000 18.000 16.000 15.000 13.000 15.000
   9      26.000 13.000 14.000 10.000 13.000 18.000 27.000 34.000 33.000 29.000 27.000 36.000 22.000 18.000 18.000 20.000
   9      53.000 19.000 18.000 17.000 15.000 28.000 43.000 44.000 75.000 89.000 99.000 64.000 43.000 39.000 60.000 59.000
   9      62.000 19.000  7.000 10.000 14.000 18.000 37.000 32.000 89.000 72.000105.000 77.000 88.000 49.000 69.000 53.000
   9      29.000  9.000  6.000  0.000  5.000 11.000 18.000 46.000 46.000 46.000 66.000 85.000 85.000 74.000 87.000 57.000
   9      12.000  4.000  3.000  0.000  0.000  2.000  7.000 15.000 40.000 19.000 31.000 57.000 85.000 55.000 67.000 47.000
   9       2.000  0.000  0.000  0.000  0.000  1.000  4.000  6.000 24.000 20.000 23.000 80.000128.000104.000 61.000 19.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  3.000  1.000 21.000 23.000 23.000  0.000  5.000
   9       1.000  0.000  0.000  0.000  4.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  1.000  0.000  0.000  0.000
   9       7.000  9.000  6.000  6.000  8.000  2.000  1.000  7.000  8.000  8.000  1.000 10.000  8.000  8.000  7.000 10.000
   9       4.000  5.000  5.000  4.000  5.000  3.000  3.000  2.000  9.000  1.000  5.000  8.000  5.000  6.000  6.000  9.000
   9       4.000  9.000  5.000  4.000  5.000  1.000 11.000  4.000  8.000  9.000  6.000  8.000  7.000  8.000 11.000 12.000
   9      35.000  8.000 15.000 13.000  7.000  5.000 12.000  5.000 22.000 19.000 22.000 19.000 25.000 22.000 44.000 34.000
   9      17.000  3.000  5.000  4.000  3.000  1.000  8.000  3.000  6.000 16.000 36.000 25.000 28.000 26.000 53.000 62.000
   9       7.000  4.000  1.000  0.000  0.000  1.000  4.000  3.000  8.000  4.000 16.000 40.000 27.000 20.000 41.000 29.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  2.000  1.000  1.000  5.000 10.000 23.000 37.000 10.000 17.000  8.000
   9       1.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  1.000  0.000  5.000 14.000 24.000 32.000  5.000  4.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  2.000  1.000  2.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  10        101.  0.500
2.350  3.470  4.590  6.820  9.060 11.300 13.530 18.010 22.370 55.000  0.000  0.000  0.000  11       1500.  1500.  1500.  1500.  1500.  1500.
1500.  1500.  1500.  1500.  1500.  1500.  1500.  1500.  1500.  1500.  11       2000.  2000.  2000.  2000.  2000.  2000.  2000.  2000.  2000.
2000.  2000.  2000.  2000.  2000.  2000.  2000.  12         1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0
1.0    1.0    1.0    1.0
  12        1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0  13        500.   500.
500.   500.   500.   500.   500.   500.   500.   500.   500.   500.   500.   500.   500.   500.
  14         0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 04/20/08

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

RELATIVE CONCENTRATION (X/Q) VALUES (SEC/CUBIC METER) VERSUS AVERAGING TIME

DOWNWIND SECTOR	DISTANCE (METERS)	0-2 HOURS	0-8 HOURS	8-24 HOURS	1-4 DAYS	4-30 DAYS	ANNUAL AVERAGE	HOURS PER YEAR MAX 0-2 HR X/Q IS EXCEEDED IN SECTOR	DOWNWIND SECTOR
S	1500.	1.68E-06	6.58E-07	4.12E-07	1.49E-07	3.46E-08	5.80E-09	18.8	S
SSW	1500.	1.58E-06	6.28E-07	3.97E-07	1.46E-07	3.49E-08	6.04E-09	298.3	SSW
SW	1500.	1.89E-06	7.42E-07	4.64E-07	1.68E-07	3.90E-08	6.53E-09	33.3	SW
WSW	1500.	2.09E-06	8.48E-07	5.40E-07	2.03E-07	4.98E-08	8.92E-09	40.2	WSW
W	1500.	2.18E-06	9.07E-07	5.85E-07	2.26E-07	5.77E-08	1.09E-08	43.7	W
WNW	1500.	1.92E-06	7.84E-07	5.01E-07	1.90E-07	4.71E-08	8.56E-09	32.6	WNW
NW	1500.	1.55E-06	6.17E-07	3.89E-07	1.43E-07	3.40E-08	5.86E-09	13.1	NW
NNW	1500.	1.36E-06	4.96E-07	3.00E-07	1.01E-07	2.10E-08	3.08E-09	12.9	NNW
N	1500.	1.48E-06	6.16E-07	3.98E-07	1.54E-07	3.93E-08	7.41E-09	12.1	N
NNE	1500.	1.27E-06	4.81E-07	2.96E-07	1.03E-07	2.28E-08	3.59E-09	9.4	NNE
NE	1500.	1.26E-06	4.67E-07	2.84E-07	9.71E-08	2.07E-08	3.14E-09	10.3	NE
ENE	1500.	1.17E-06	4.31E-07	2.62E-07	8.90E-08	1.89E-08	2.84E-09	7.0	ENE
E	1500.	1.27E-06	5.17E-07	3.29E-07	1.24E-07	3.05E-08	5.49E-09	11.5	E
ESE	1500.	1.12E-06	4.56E-07	2.92E-07	1.10E-07	2.74E-08	4.97E-09	10.2	ESE
SE	1500.	1.29E-06	5.05E-07	3.17E-07	1.15E-07	2.68E-08	4.53E-09	9.1	SE
SSE	1500.	1.56E-06	6.75E-07	4.43E-07	1.78E-07	4.82E-08	9.73E-09	15.2	SSE
MAX X/Q		2.18E-06				TOTAL HOURS AROUND SITE:		577.7	
SRP 2.3.4	1500.	1.89E-06	8.05E-07	5.26E-07	2.08E-07	5.52E-08	1.09E-08		
SITE LIMIT		1.89E-06	8.05E-07	5.26E-07	2.08E-07	5.52E-08	1.09E-08		

THE FIVE-PERCENT-FOR-THE-ENTIRE-SITE X/Q IS LIMITING.

X/Q VALUES (SEC/CUBIC METER) FOR FUMIGATION AT THE BOUNDARY:

DOWNWIND SECTOR	DISTANCE (METERS)	FUMIGATION X/Q
S	1500.	2.85E-05
SSW	1500.	2.85E-05
SW	1500.	2.85E-05
WSW	1500.	2.85E-05
W	1500.	2.85E-05
WNW	1500.	2.85E-05
NW	1500.	2.85E-05
NNW	1500.	2.85E-05
N	1500.	2.85E-05
NNE	1500.	2.85E-05
NE	1500.	2.85E-05
ENE	1500.	2.85E-05
E	1500.	2.85E-05
ESE	1500.	2.85E-05
SE	1500.	2.85E-05
SSE	1500.	2.85E-05

NOTE: VALUES ON THIS PAGE ARE APPROXIMATIONS ONLY.
CHECK THE REASONABLENESS OF THE ENVELOPES
COMPUTED FOR THE 0-2 HOUR VALUES. FOR ANY
FAULTY ENVELOPES, ADJUST THE ABOVE VALUES.

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 04/20/08

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

RELATIVE CONCENTRATION (X/Q) VALUES (SEC/CUBIC METER)
VERSUS
AVERAGING TIME

DOWNWIND SECTOR	DISTANCE (METERS)	0-2 HOURS	0-8 HOURS	8-24 HOURS	1-4 DAYS	4-30 DAYS	ANNUAL AVERAGE	HOURS PER YEAR MAX 0-2 HR X/Q IS EXCEEDED IN SECTOR	DOWNWIND SECTOR
S	2000.	1.60E-06	6.79E-07	4.43E-07	1.75E-07	4.62E-08	9.06E-09	21.5	S
SSW	2000.	1.49E-06	6.21E-07	4.01E-07	1.56E-07	4.00E-08	7.58E-09	302.4	SSW
SW	2000.	1.83E-06	7.50E-07	4.80E-07	1.83E-07	4.57E-08	8.36E-09	34.7	SW
WSW	2000.	2.01E-06	8.45E-07	5.49E-07	2.15E-07	5.58E-08	1.07E-08	41.6	WSW
W	2000.	2.05E-06	8.86E-07	5.82E-07	2.34E-07	6.31E-08	1.27E-08	43.7	W
WNW	2000.	1.82E-06	7.75E-07	5.05E-07	1.99E-07	5.24E-08	1.02E-08	33.9	WNW
NW	2000.	1.49E-06	6.32E-07	4.11E-07	1.62E-07	4.24E-08	8.25E-09	13.5	NW
NNW	2000.	1.33E-06	5.38E-07	3.42E-07	1.28E-07	3.11E-08	5.51E-09	14.0	NNW
N	2000.	1.43E-06	6.35E-07	4.24E-07	1.76E-07	5.00E-08	1.07E-08	16.2	N
NNE	2000.	1.22E-06	5.01E-07	3.20E-07	1.21E-07	3.01E-08	5.48E-09	10.0	NNE
NE	2000.	1.22E-06	4.85E-07	3.06E-07	1.13E-07	2.69E-08	4.66E-09	10.9	NE
ENE	2000.	1.12E-06	4.42E-07	2.77E-07	1.01E-07	2.36E-08	4.01E-09	7.7	ENE
E	2000.	1.21E-06	5.19E-07	3.40E-07	1.35E-07	3.60E-08	7.13E-09	12.3	E
ESE	2000.	1.07E-06	4.71E-07	3.13E-07	1.29E-07	3.61E-08	7.60E-09	11.3	ESE
SE	2000.	1.26E-06	5.56E-07	3.69E-07	1.51E-07	4.21E-08	8.80E-09	12.8	SE
SSE	2000.	1.51E-06	6.99E-07	4.76E-07	2.07E-07	6.25E-08	1.45E-08	18.7	SSE
MAX X/Q		2.05E-06				TOTAL HOURS AROUND SITE:		605.2	
SRP 2.3.4	2000.	1.80E-06	8.11E-07	5.44E-07	2.29E-07	6.61E-08	1.45E-08		
SITE LIMIT		1.80E-06	8.11E-07	5.44E-07	2.29E-07	6.61E-08	1.45E-08		

THE FIVE-PERCENT-FOR-THE-ENTIRE-SITE X/Q IS LIMITING.

X/Q VALUES (SEC/CUBIC METER) FOR FUMIGATION AT THE BOUNDARY:

DOWNWIND SECTOR	DISTANCE (METERS)	FUMIGATION X/Q
S	2000.	2.20E-05
SSW	2000.	2.20E-05
SW	2000.	2.20E-05
WSW	2000.	2.20E-05
W	2000.	2.20E-05
WNW	2000.	2.20E-05
NW	2000.	2.20E-05
NNW	2000.	2.20E-05
N	2000.	2.20E-05
NNE	2000.	2.20E-05
NE	2000.	2.20E-05
ENE	2000.	2.20E-05
E	2000.	2.20E-05
ESE	2000.	2.20E-05
SE	2000.	2.20E-05
SSE	2000.	2.20E-05

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**NOTE**: VALUES ON THIS PAGE ARE APPROXIMATIONS ONLY.
          CHECK THE REASONABLENESS OF THE ENVELOPES
          COMPUTED FOR THE 0-2 HOUR VALUES.  FOR ANY
          FAULTY ENVELOPES, ADJUST THE ABOVE VALUES.
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Off-Gas Stack to Control Room Intake (3000 and 4000 m; Tower 2 Meteorology; RG 1.23, Revision 1 Wind Speed Categories)

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   1  1111
Peach Bottom                                   Stack Release
97.5 meters          10.1-96.3 meters

Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
   11     1
2584. 54.3131.4 97.5
    0     0     0     2     6     5     0
   0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
   0.    0.    0.    0.    3.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
   0.    2.   10.   10.   15.    3.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
   5.    6.   10.   23.   59.   25.    2.    0.    0.    1.    2.    0.    0.    0.    0.    1.
   1.    3.   11.   18.   43.   40.   10.    4.    2.    2.    2.    0.    1.    3.    0.    0.
   0.    6.   10.   11.   13.   17.    9.    0.    7.    4.    3.    3.    2.    3.    0.    5.
   0.    1.    2.   13.    8.    3.    9.    0.    4.    3.    0.    6.   13.    7.    3.    4.
   2.    4.    9.   11.    2.    3.    7.    0.    6.    2.    2.    1.   14.    5.    2.   14.
   1.    2.    0.    1.    0.    1.    0.    0.    0.    0.    0.    2.   10.    2.    0.    1.
   1.    0.    0.    0.    0.    1.    0.    0.    0.    0.    0.    1.    6.    5.    1.    1.
   0.    1.    1.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
   0.    1.    1.    9.    5.    0.    2.    0.    0.    0.    0.    0.    0.    0.    0.    0.
   1.    7.    5.    8.   21.    5.    1.    0.    0.    0.    0.    0.    1.    0.    1.    0.
  12.   15.    9.   11.   34.   19.    6.    1.    1.    4.    3.    1.    3.    1.    2.    3.
   1.   11.   11.   18.    6.   21.   11.    4.    4.    4.    4.    2.    3.    5.    1.    7.
   2.    5.    4.    2.    5.    9.   13.    5.   17.    9.    6.    5.   13.    2.    1.   12.
   3.    0.    3.    1.    3.    0.    9.    6.   14.    5.    6.    7.   10.    8.    3.   15.
   8.    2.    1.    1.    0.    2.    5.    3.   22.    5.    3.   13.   21.   15.    6.   20.
   1.    3.    0.    0.    0.    1.    1.    1.    6.    1.    1.    2.   11.   12.    5.    6.
   0.    0.    1.    0.    0.    0.    0.    0.    1.    1.    0.    1.    7.   10.    0.    0.
   0.    2.    2.    1.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
   0.    3.   10.   14.    1.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
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  26.   12.    8.   11.   10.   21.   26.   13.   20.   13.    9.    4.   16.    6.    8.   35.
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   8.    8.    0.    3.    2.    3.   15.   12.   37.   17.   11.   15.   11.   21.   18.   43.
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  18.   18.   28.   26.   28.   20.   14.   13.   12.    6.    9.    6.    8.   19.    8.   10.
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 216.  175.  125.  187.  215.  168.  282.  234.  320.  203.  128.   80.  109.  115.  186.  390.
 237.  151.  118.  123.  134.  129.  212.  204.  330.  193.  142.   89.  134.  160.  235.  438.
 233.   99.   80.   54.  103.  102.  129.  147.  274.  132.   80.  103.  142.  196.  332.  406.
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 177. 131.  95.  87. 123. 134. 205. 234. 432. 273. 191. 116. 120. 116. 154. 200.
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   4.   5.   5.   4.   5.   3.   3.   2.   9.   1.   5.   8.   5.   6.   6.   9.
   4.   9.   5.   4.   5.   1.  11.   4.   8.   9.   6.   8.   7.   8.  11.  12.
  35.   8.  15.  13.   7.   5.  12.   5.  22.  19.  22.  19.  25.  22.  44.  34.
  17.   3.   5.   4.   3.   1.   8.   3.   6.  16.  36.  25.  28.  26.  53.  62.
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 04/20/08

PRINTOUT OF INPUT CARDS

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   1     00010 01111 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000   2     Peach Bottom
Stack Release
   3     97.5 meters          10.1-96.3 meters
   4
   5     Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T          6         11 42771     1
   7          0.500  2584.000    54.300   131.400    97.500
   8       0.000  0.000  0.000  2.000  6.000  5.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
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   9       0.000  6.000 10.000 11.000 13.000 17.000  9.000  0.000  7.000  4.000  3.000  3.000  2.000  3.000  0.000  5.000
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   9       1.000 11.000 11.000 18.000  6.000 21.000 11.000  4.000  4.000  4.000  4.000  2.000  3.000  5.000  1.000  7.000
   9       2.000  5.000  4.000  2.000  5.000  9.000 13.000  5.000 17.000  9.000  6.000  5.000 13.000  2.000  1.000 12.000
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   9       0.000  3.000 10.000 14.000  1.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
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   9      18.000 14.000 15.000 17.000 17.000 40.000  6.000  4.000 11.000  4.000  7.000  3.000  2.000  2.000  3.000 16.000
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   9     216.000175.000125.000187.000215.000168.000282.000234.000320.000203.000128.000 80.000109.000115.000186.000390.000
   9     237.000151.000118.000123.000134.000129.000212.000204.000330.000193.000142.000 89.000134.000160.000235.000438.000
   9     233.000 99.000 80.000 54.000103.000102.000129.000147.000274.000132.000 80.000103.000142.000196.000332.000406.000
   9     278.000113.000 52.000 44.000 87.000 94.000107.000 58.000345.000108.000 91.000139.000311.000543.000821.000694.000
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   9      21.000 15.000 15.000 20.000 24.000 17.000 26.000 16.000 26.000 16.000 17.000 19.000 30.000 17.000 23.000 11.000
   9      39.000 29.000 21.000 41.000 36.000 43.000 35.000 43.000 44.000 40.000 42.000 35.000 24.000 19.000 16.000 23.000
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   9      50.000 43.000 35.000 51.000 65.000 48.000 90.000 69.000 60.000 65.000 63.000 36.000 42.000 23.000 30.000 36.000
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   9       8.000  1.000  6.000  1.000 21.000  3.000  9.000  1.000  9.000  2.000  2.000  2.000 10.000 12.000 10.000 14.000
   9      16.000  7.000 13.000 10.000 11.000 12.000 10.000 12.000 12.000 12.000 15.000 15.000 14.000 13.000 13.000  7.000
   9      10.000 12.000  9.000 16.000 20.000 11.000 18.000 20.000 11.000 20.000 17.000 18.000 16.000 15.000 13.000 15.000
   9      26.000 13.000 14.000 10.000 13.000 18.000 27.000 34.000 33.000 29.000 27.000 36.000 22.000 18.000 18.000 20.000
   9      53.000 19.000 18.000 17.000 15.000 28.000 43.000 44.000 75.000 89.000 99.000 64.000 43.000 39.000 60.000 59.000
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   9      35.000  8.000 15.000 13.000  7.000  5.000 12.000  5.000 22.000 19.000 22.000 19.000 25.000 22.000 44.000 34.000
   9      17.000  3.000  5.000  4.000  3.000  1.000  8.000  3.000  6.000 16.000 36.000 25.000 28.000 26.000 53.000 62.000
   9       7.000  4.000  1.000  0.000  0.000  1.000  4.000  3.000  8.000  4.000 16.000 40.000 27.000 20.000 41.000 29.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  2.000  1.000  1.000  5.000 10.000 23.000 37.000 10.000 17.000  8.000
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   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  10        101.  0.500
2.350  3.470  4.590  6.820  9.060 11.300 13.530 18.010 22.370 55.000  0.000  0.000  0.000  11       3000.  3000.  3000.  3000.  3000.  3000.
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1.0    1.0    1.0    1.0
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500.   500.   500.   500.   500.   500.   500.   500.   500.   500.   500.   500.   500.   500.
  14         0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 04/20/08

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

RELATIVE CONCENTRATION (X/Q) VALUES (SEC/CUBIC METER) VERSUS AVERAGING TIME

DOWNWIND SECTOR	DISTANCE (METERS)	0-2 HOURS	0-8 HOURS	8-24 HOURS	1-4 DAYS	4-30 DAYS	ANNUAL AVERAGE	HOURS PER YEAR MAX 0-2 HR X/Q IS EXCEEDED IN SECTOR	DOWNWIND SECTOR
S	3000.	1.49E-06	6.92E-07	4.71E-07	2.05E-07	6.19E-08	1.43E-08	22.0	S
SSW	3000.	1.37E-06	6.10E-07	4.08E-07	1.70E-07	4.83E-08	1.04E-08	303.1	SSW
SW	3000.	1.74E-06	7.58E-07	5.00E-07	2.03E-07	5.55E-08	1.14E-08	34.8	SW
WSW	3000.	1.88E-06	8.37E-07	5.58E-07	2.32E-07	6.55E-08	1.40E-08	40.6	WSW
W	3000.	1.95E-06	8.85E-07	5.97E-07	2.54E-07	7.43E-08	1.65E-08	43.7	W
WNW	3000.	1.64E-06	7.38E-07	4.96E-07	2.09E-07	6.04E-08	1.32E-08	28.8	WNW
NW	3000.	1.40E-06	6.44E-07	4.36E-07	1.87E-07	5.54E-08	1.25E-08	18.5	NW
NNW	3000.	1.29E-06	5.76E-07	3.85E-07	1.60E-07	4.56E-08	9.80E-09	16.1	NNW
N	3000.	1.36E-06	6.58E-07	4.57E-07	2.07E-07	6.64E-08	1.65E-08	15.6	N
NNE	3000.	1.16E-06	5.22E-07	3.49E-07	1.46E-07	4.18E-08	9.06E-09	11.7	NNE
NE	3000.	1.17E-06	5.06E-07	3.34E-07	1.35E-07	3.68E-08	7.51E-09	12.4	NE
ENE	3000.	1.07E-06	4.57E-07	2.99E-07	1.19E-07	3.16E-08	6.25E-09	9.9	ENE
E	3000.	1.16E-06	5.29E-07	3.58E-07	1.53E-07	4.53E-08	1.02E-08	12.5	E
ESE	3000.	1.01E-06	4.86E-07	3.37E-07	1.52E-07	4.85E-08	1.20E-08	11.8	ESE
SE	3000.	1.24E-06	6.02E-07	4.20E-07	1.92E-07	6.24E-08	1.58E-08	14.2	SE
SSE	3000.	1.40E-06	7.02E-07	4.97E-07	2.36E-07	8.06E-08	2.17E-08	16.1	SSE
MAX X/Q		1.95E-06				TOTAL HOURS AROUND SITE:		611.9	
SRP 2.3.4	3000.	1.71E-06	8.33E-07	5.80E-07	2.65E-07	8.60E-08	2.17E-08		
SITE LIMIT		1.71E-06	8.33E-07	5.80E-07	2.65E-07	8.60E-08	2.17E-08		

THE FIVE-PERCENT-FOR-THE-ENTIRE-SITE X/Q IS LIMITING.

X/Q VALUES (SEC/CUBIC METER) FOR FUMIGATION AT THE BOUNDARY:

DOWNWIND SECTOR	DISTANCE (METERS)	FUMIGATION X/Q
S	3000.	1.52E-05
SSW	3000.	1.52E-05
SW	3000.	1.52E-05
WSW	3000.	1.52E-05
W	3000.	1.52E-05
WNW	3000.	1.52E-05
NW	3000.	1.52E-05
NNW	3000.	1.52E-05
N	3000.	1.52E-05
NNE	3000.	1.52E-05
NE	3000.	1.52E-05
ENE	3000.	1.52E-05
E	3000.	1.52E-05
ESE	3000.	1.52E-05
SE	3000.	1.52E-05
SSE	3000.	1.52E-05

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**NOTE**: VALUES ON THIS PAGE ARE APPROXIMATIONS ONLY.
          CHECK THE REASONABLENESS OF THE ENVELOPES
          COMPUTED FOR THE 0-2 HOUR VALUES.  FOR ANY
          FAULTY ENVELOPES, ADJUST THE ABOVE VALUES.
```

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 04/20/08

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

RELATIVE CONCENTRATION (X/Q) VALUES (SEC/CUBIC METER)
VERSUS
AVERAGING TIME

DOWNWIND SECTOR	DISTANCE (METERS)	0-2 HOURS	0-8 HOURS	8-24 HOURS	1-4 DAYS	4-30 DAYS	ANNUAL AVERAGE	HOURS PER YEAR MAX 0-2 HR X/Q IS EXCEEDED IN SECTOR	DOWNWIND SECTOR
S	4000.	1.50E-06	7.10E-07	4.88E-07	2.17E-07	6.77E-08	1.63E-08	25.6	S
SSW	4000.	1.35E-06	6.13E-07	4.13E-07	1.75E-07	5.10E-08	1.13E-08	351.8	SSW
SW	4000.	1.70E-06	7.50E-07	4.99E-07	2.06E-07	5.79E-08	1.23E-08	35.1	SW
WSW	4000.	1.82E-06	8.21E-07	5.52E-07	2.33E-07	6.76E-08	1.49E-08	40.9	WSW
W	4000.	1.87E-06	8.65E-07	5.88E-07	2.55E-07	7.69E-08	1.77E-08	43.7	W
WNW	4000.	1.57E-06	7.21E-07	4.89E-07	2.10E-07	6.24E-08	1.41E-08	29.1	WNW
NW	4000.	1.42E-06	6.64E-07	4.54E-07	1.99E-07	6.09E-08	1.43E-08	22.3	NW
NNW	4000.	1.28E-06	5.91E-07	4.01E-07	1.73E-07	5.17E-08	1.18E-08	17.7	NNW
N	4000.	1.36E-06	6.74E-07	4.74E-07	2.21E-07	7.37E-08	1.93E-08	20.0	N
NNE	4000.	1.16E-06	5.35E-07	3.64E-07	1.58E-07	4.74E-08	1.09E-08	13.0	NNE
NE	4000.	1.15E-06	5.16E-07	3.45E-07	1.45E-07	4.14E-08	8.98E-09	13.5	NE
ENE	4000.	1.06E-06	4.66E-07	3.09E-07	1.27E-07	3.54E-08	7.42E-09	11.0	ENE
E	4000.	1.12E-06	5.28E-07	3.62E-07	1.59E-07	4.92E-08	1.17E-08	14.0	E
ESE	4000.	1.05E-06	5.11E-07	3.58E-07	1.64E-07	5.39E-08	1.38E-08	14.1	ESE
SE	4000.	1.23E-06	6.14E-07	4.35E-07	2.05E-07	6.96E-08	1.86E-08	15.9	SE
SSE	4000.	1.43E-06	7.27E-07	5.19E-07	2.49E-07	8.70E-08	2.40E-08	22.0	SSE
MAX X/Q		1.87E-06				TOTAL HOURS AROUND SITE:		689.6	
SRP 2.3.4	4000.	1.69E-06	8.36E-07	5.88E-07	2.74E-07	9.17E-08	2.40E-08		
SITE LIMIT		1.69E-06	8.36E-07	5.88E-07	2.74E-07	9.17E-08	2.40E-08		

THE FIVE-PERCENT-FOR-THE-ENTIRE-SITE X/Q IS LIMITING.

X/Q VALUES (SEC/CUBIC METER) FOR FUMIGATION AT THE BOUNDARY:

DOWNWIND SECTOR	DISTANCE (METERS)	FUMIGATION X/Q
S	4000.	1.17E-05
SSW	4000.	1.17E-05
SW	4000.	1.17E-05
WSW	4000.	1.17E-05
W	4000.	1.17E-05
WNW	4000.	1.17E-05
NW	4000.	1.17E-05
NNW	4000.	1.17E-05
N	4000.	1.17E-05
NNE	4000.	1.17E-05
NE	4000.	1.17E-05
ENE	4000.	1.17E-05
E	4000.	1.17E-05
ESE	4000.	1.17E-05
SE	4000.	1.17E-05
SSE	4000.	1.17E-05

NOTE: VALUES ON THIS PAGE ARE APPROXIMATIONS ONLY. CHECK THE REASONABLENESS OF THE ENVELOPES COMPUTED FOR THE 0-2 HOUR VALUES. FOR ANY FAULTY ENVELOPES, ADJUST THE ABOVE VALUES.

Off-Gas Stack to Control Room Intake (5000 and 6000 m; Tower 2 Meteorology; RG 1.23, Revision 1 Wind Speed Categories)

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   1  1111
Peach Bottom                                   Stack Release
97.5 meters          10.1-96.3 meters

Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
   11     1
2584. 54.3131.4 97.5
    0     0     0     2     6     5     0
   0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
   0.    0.    0.    0.    3.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
   0.    2.   10.   10.   15.    3.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
   5.    6.   10.   23.   59.   25.    2.    0.    0.    1.    2.    0.    0.    0.    0.    1.
   1.    3.   11.   18.   43.   40.   10.    4.    2.    2.    2.    0.    1.    3.    0.    0.
   0.    6.   10.   11.   13.   17.    9.    0.    7.    4.    3.    3.    2.    3.    0.    5.
   0.    1.    2.   13.    8.    3.    9.    0.    4.    3.    0.    6.   13.    7.    3.    4.
   2.    4.    9.   11.    2.    3.    7.    0.    6.    2.    2.    1.   14.    5.    2.   14.
   1.    2.    0.    1.    0.    1.    0.    0.    0.    0.    0.    2.   10.    2.    0.    1.
   1.    0.    0.    0.    0.    1.    0.    0.    0.    0.    0.    1.    6.    5.    1.    1.
   0.    1.    1.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
   0.    1.    1.    9.    5.    0.    2.    0.    0.    0.    0.    0.    0.    0.    0.    0.
   1.    7.    5.    8.   21.    5.    1.    0.    0.    0.    0.    0.    1.    0.    1.    0.
  12.   15.    9.   11.   34.   19.    6.    1.    1.    4.    3.    1.    3.    1.    2.    3.
   1.   11.   11.   18.    6.   21.   11.    4.    4.    4.    4.    2.    3.    5.    1.    7.
   2.    5.    4.    2.    5.    9.   13.    5.   17.    9.    6.    5.   13.    2.    1.   12.
   3.    0.    3.    1.    3.    0.    9.    6.   14.    5.    6.    7.   10.    8.    3.   15.
   8.    2.    1.    1.    0.    2.    5.    3.   22.    5.    3.   13.   21.   15.    6.   20.
   1.    3.    0.    0.    0.    1.    1.    1.    6.    1.    1.    2.   11.   12.    5.    6.
   0.    0.    1.    0.    0.    0.    0.    0.    1.    1.    0.    1.    7.   10.    0.    0.
   0.    2.    2.    1.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
   0.    3.   10.   14.    1.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
   4.    7.   11.   16.   31.   17.    2.    0.    1.    0.    0.    0.    0.    0.    0.    1.
  18.   14.   15.   17.   17.   40.    6.    4.   11.    4.    7.    3.    2.    2.    3.   16.
  26.   12.    8.   11.   10.   21.   26.   13.   20.   13.    9.    4.   16.    6.    8.   35.
  21.    6.    3.    8.    5.   11.   31.   10.   40.   14.   15.   14.   23.   13.    9.   45.
   8.    8.    0.    3.    2.    3.   15.   12.   37.   17.   11.   15.   11.   21.   18.   43.
  14.    2.    4.    2.    2.    3.    7.    5.   48.   18.   16.   24.   48.   45.   26.   74.
   4.    1.    0.    0.    1.    2.    0.    1.   10.    0.    3.    3.   29.   27.   22.   14.
   1.    3.    0.    0.    0.    0.    0.    0.    1.    0.    2.    2.   16.   33.   12.    4.
  18.   18.   28.   26.   28.   20.   14.   13.   12.    6.    9.    6.    8.   19.    8.   10.
  41.   40.   80.   93.   87.   66.   31.   22.   29.   17.   23.    9.   18.   19.   28.   40.
  67.   53.   78.   99.  130.   77.   54.   50.   39.   31.   28.   24.   30.   19.   40.   50.
 209.  119.  120.  174.  227.  179.  192.  134.  171.  110.   98.   90.   89.   59.  118.  231.
 216.  175.  125.  187.  215.  168.  282.  234.  320.  203.  128.   80.  109.  115.  186.  390.
 237.  151.  118.  123.  134.  129.  212.  204.  330.  193.  142.   89.  134.  160.  235.  438.
 233.   99.   80.   54.  103.  102.  129.  147.  274.  132.   80.  103.  142.  196.  332.  406.
 278.  113.   52.   44.   87.   94.  107.   58.  345.  108.   91.  139.  311.  543.  821.  694.
  69.   28.   13.   11.   24.   24.   15.   10.   96.   21.   15.   20.  211.  392.  489.  230.
  25.   10.   10.    2.   18.    7.    8.    1.   40.    6.    5.   12.  124.  227.  256.   94.
  21.   15.   15.   20.   24.   17.   26.   16.   26.   16.   17.   19.   30.   17.   23.   11.
  39.   29.   21.   41.   36.   43.   35.   43.   44.   40.   42.   35.   24.   19.   16.   23.
  50.   43.   35.   51.   65.   48.   90.   69.   60.   65.   63.   36.   42.   23.   30.   36.
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  10.  12.   9.  16.  20.  11.  18.  20.  11.  20.  17.  18.  16.  15.  13.  15.
  26.  13.  14.  10.  13.  18.  27.  34.  33.  29.  27.  36.  22.  18.  18.  20.
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   4.   9.   5.   4.   5.   1.  11.   4.   8.   9.   6.   8.   7.   8.  11.  12.
  35.   8.  15.  13.   7.   5.  12.   5.  22.  19.  22.  19.  25.  22.  44.  34.
  17.   3.   5.   4.   3.   1.   8.   3.   6.  16.  36.  25.  28.  26.  53.  62.
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   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
 101. 0.50 2.35 3.47 4.59 6.82 9.06 11.313.5318.0122.37 55.0
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6000.6000.6000.6000.6000.6000.6000.6000.6000.6000.6000.6000.6000.6000.6000.6000.
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 04/20/08

PRINTOUT OF INPUT CARDS

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   1     00010 01111 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000   2     Peach Bottom
Stack Release
   3     97.5 meters         10.1-96.3 meters
   4
   5     Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T          6         11 42771     1
   7          0.500  2584.000    54.300   131.400    97.500
   8       0.000  0.000  0.000  2.000  6.000  5.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  3.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  2.000 10.000 10.000 15.000  3.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       5.000  6.000 10.000 23.000 59.000 25.000  2.000  0.000  0.000  1.000  2.000  0.000  0.000  0.000  0.000  1.000
   9       1.000  3.000 11.000 18.000 43.000 40.000 10.000  4.000  2.000  2.000  2.000  0.000  1.000  3.000  0.000  0.000
   9       0.000  6.000 10.000 11.000 13.000 17.000  9.000  0.000  7.000  4.000  3.000  3.000  2.000  3.000  0.000  5.000
   9       0.000  1.000  2.000 13.000  8.000  3.000  9.000  0.000  4.000  3.000  0.000  6.000 13.000  7.000  3.000  4.000
   9       2.000  4.000  9.000 11.000  2.000  3.000  7.000  0.000  6.000  2.000  2.000  1.000 14.000  5.000  2.000 14.000
   9       1.000  2.000  0.000  1.000  0.000  1.000  0.000  0.000  0.000  0.000  0.000  2.000 10.000  2.000  0.000  1.000
   9       1.000  0.000  0.000  0.000  0.000  1.000  0.000  0.000  0.000  0.000  0.000  1.000  6.000  5.000  1.000  1.000
   9       0.000  1.000  1.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  1.000  1.000  9.000  5.000  0.000  2.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       1.000  7.000  5.000  8.000 21.000  5.000  1.000  0.000  0.000  0.000  0.000  0.000  1.000  0.000  1.000  0.000
   9      12.000 15.000  9.000 11.000 34.000 19.000  6.000  1.000  1.000  4.000  3.000  1.000  3.000  1.000  2.000  3.000
   9       1.000 11.000 11.000 18.000  6.000 21.000 11.000  4.000  4.000  4.000  4.000  2.000  3.000  5.000  1.000  7.000
   9       2.000  5.000  4.000  2.000  5.000  9.000 13.000  5.000 17.000  9.000  6.000  5.000 13.000  2.000  1.000 12.000
   9       3.000  0.000  3.000  1.000  3.000  0.000  9.000  6.000 14.000  5.000  6.000  7.000 10.000  8.000  3.000 15.000
   9       8.000  2.000  1.000  1.000  0.000  2.000  5.000  3.000 22.000  5.000  3.000 13.000 21.000 15.000  6.000 20.000
   9       1.000  3.000  0.000  0.000  0.000  1.000  1.000  1.000  6.000  1.000  1.000  2.000 11.000 12.000  5.000  6.000
   9       0.000  0.000  1.000  0.000  0.000  0.000  0.000  0.000  1.000  1.000  0.000  1.000  7.000 10.000  0.000  0.000
   9       0.000  2.000  2.000  1.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  3.000 10.000 14.000  1.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       4.000  7.000 11.000 16.000 31.000 17.000  2.000  0.000  1.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000
   9      18.000 14.000 15.000 17.000 17.000 40.000  6.000  4.000 11.000  4.000  7.000  3.000  2.000  2.000  3.000 16.000
   9      26.000 12.000  8.000 11.000 10.000 21.000 26.000 13.000 20.000 13.000  9.000  4.000 16.000  6.000  8.000 35.000
   9      21.000  6.000  3.000  8.000  5.000 11.000 31.000 10.000 40.000 14.000 15.000 14.000 23.000 13.000  9.000 45.000
   9       8.000  8.000  0.000  3.000  2.000  3.000 15.000 12.000 37.000 17.000 11.000 15.000 11.000 21.000 18.000 43.000
   9      14.000  2.000  4.000  2.000  2.000  3.000  7.000  5.000 48.000 18.000 16.000 24.000 48.000 45.000 26.000 74.000
   9       4.000  1.000  0.000  0.000  1.000  2.000  0.000  1.000 10.000  0.000  3.000  3.000 29.000 27.000 22.000 14.000
   9       1.000  3.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  0.000  2.000  2.000 16.000 33.000 12.000  4.000
   9      18.000 18.000 28.000 26.000 28.000 20.000 14.000 13.000 12.000  6.000  9.000  6.000  8.000 19.000  8.000 10.000
   9      41.000 40.000 80.000 93.000 87.000 66.000 31.000 22.000 29.000 17.000 23.000  9.000 18.000 19.000 28.000 40.000
   9      67.000 53.000 78.000 99.000130.000 77.000 54.000 50.000 39.000 31.000 28.000 24.000 30.000 19.000 40.000 50.000
   9     209.000119.000120.000174.000227.000179.000192.000134.000171.000110.000 98.000 90.000 89.000 59.000118.000231.000
   9     216.000175.000125.000187.000215.000168.000282.000234.000320.000203.000128.000 80.000109.000115.000186.000390.000
   9     237.000151.000118.000123.000134.000129.000212.000204.000330.000193.000142.000 89.000134.000160.000235.000438.000
   9     233.000 99.000 80.000 54.000103.000102.000129.000147.000274.000132.000 80.000103.000142.000196.000332.000406.000
   9     278.000113.000 52.000 44.000 87.000 94.000107.000 58.000345.000108.000 91.000139.000311.000543.000821.000694.000
   9      69.000 28.000 13.000 11.000 24.000 24.000 15.000 10.000 96.000 21.000 15.000 20.000211.000392.000489.000230.000
   9      25.000 10.000 10.000  2.000 18.000  7.000  8.000  1.000 40.000  6.000  5.000 12.000124.000227.000256.000 94.000
   9      21.000 15.000 15.000 20.000 24.000 17.000 26.000 16.000 26.000 16.000 17.000 19.000 30.000 17.000 23.000 11.000
   9      39.000 29.000 21.000 41.000 36.000 43.000 35.000 43.000 44.000 40.000 42.000 35.000 24.000 19.000 16.000 23.000
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   9      50.000 43.000 35.000 51.000 65.000 48.000 90.000 69.000 60.000 65.000 63.000 36.000 42.000 23.000 30.000 36.000
   9     137.000 92.000 91.000138.000168.000113.000186.000176.000263.000196.000164.000111.000102.000 82.000112.000115.000
   9     177.000131.000 95.000 87.000123.000134.000205.000234.000432.000273.000191.000116.000120.000116.000154.000200.000
   9     180.000 79.000 69.000 40.000 68.000116.000152.000195.000423.000257.000165.000149.000193.000161.000255.000213.000
   9     102.000 30.000 25.000  9.000 37.000 61.000 88.000142.000284.000182.000 99.000157.000213.000232.000277.000276.000
   9     110.000 26.000 17.000  6.000 39.000 46.000 69.000103.000367.000150.000159.000177.000417.000441.000493.000336.000
   9      24.000 10.000  3.000  4.000 11.000 20.000 16.000 11.000 72.000 19.000 27.000 38.000 88.000124.000101.000 48.000
   9       8.000  1.000  6.000  1.000 21.000  3.000  9.000  1.000  9.000  2.000  2.000  2.000 10.000 12.000 10.000 14.000
   9      16.000  7.000 13.000 10.000 11.000 12.000 10.000 12.000 12.000 12.000 15.000 15.000 14.000 13.000 13.000  7.000
   9      10.000 12.000  9.000 16.000 20.000 11.000 18.000 20.000 11.000 20.000 17.000 18.000 16.000 15.000 13.000 15.000
   9      26.000 13.000 14.000 10.000 13.000 18.000 27.000 34.000 33.000 29.000 27.000 36.000 22.000 18.000 18.000 20.000
   9      53.000 19.000 18.000 17.000 15.000 28.000 43.000 44.000 75.000 89.000 99.000 64.000 43.000 39.000 60.000 59.000
   9      62.000 19.000  7.000 10.000 14.000 18.000 37.000 32.000 89.000 72.000105.000 77.000 88.000 49.000 69.000 53.000
   9      29.000  9.000  6.000  0.000  5.000 11.000 18.000 46.000 46.000 46.000 66.000 85.000 85.000 74.000 87.000 57.000
   9      12.000  4.000  3.000  0.000  0.000  2.000  7.000 15.000 40.000 19.000 31.000 57.000 85.000 55.000 67.000 47.000
   9       2.000  0.000  0.000  0.000  0.000  1.000  4.000  6.000 24.000 20.000 23.000 80.000128.000104.000 61.000 19.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  3.000  1.000 21.000 23.000 23.000  0.000  5.000
   9       1.000  0.000  0.000  0.000  4.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  1.000  0.000  0.000  0.000
   9       7.000  9.000  6.000  6.000  8.000  2.000  1.000  7.000  8.000  8.000  1.000 10.000  8.000  8.000  7.000 10.000
   9       4.000  5.000  5.000  4.000  5.000  3.000  3.000  2.000  9.000  1.000  5.000  8.000  5.000  6.000  6.000  9.000
   9       4.000  9.000  5.000  4.000  5.000  1.000 11.000  4.000  8.000  9.000  6.000  8.000  7.000  8.000 11.000 12.000
   9      35.000  8.000 15.000 13.000  7.000  5.000 12.000  5.000 22.000 19.000 22.000 19.000 25.000 22.000 44.000 34.000
   9      17.000  3.000  5.000  4.000  3.000  1.000  8.000  3.000  6.000 16.000 36.000 25.000 28.000 26.000 53.000 62.000
   9       7.000  4.000  1.000  0.000  0.000  1.000  4.000  3.000  8.000  4.000 16.000 40.000 27.000 20.000 41.000 29.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  2.000  1.000  1.000  5.000 10.000 23.000 37.000 10.000 17.000  8.000
   9       1.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  1.000  0.000  5.000 14.000 24.000 32.000  5.000  4.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  2.000  1.000  2.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  10        101.  0.500
2.350  3.470  4.590  6.820  9.060 11.300 13.530 18.010 22.370 55.000  0.000  0.000  0.000  11       5000.  5000.  5000.  5000.  5000.  5000.
5000.  5000.  5000.  5000.  5000.  5000.  5000.  5000.  5000.  5000.  11       6000.  6000.  6000.  6000.  6000.  6000.  6000.  6000.  6000.
6000.  6000.  6000.  6000.  6000.  6000.  6000.  12         1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0
1.0    1.0    1.0    1.0
  12        1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0  13        500.   500.
500.   500.   500.   500.   500.   500.   500.   500.   500.   500.   500.   500.   500.   500.   500.
  14         0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.     0.
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 04/20/08

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

RELATIVE CONCENTRATION (X/Q) VALUES (SEC/CUBIC METER)
VERSUS
AVERAGING TIME

DOWNWIND SECTOR	DISTANCE (METERS)	0-2 HOURS	0-8 HOURS	8-24 HOURS	1-4 DAYS	4-30 DAYS	ANNUAL AVERAGE	HOURS PER YEAR MAX 0-2 HR X/Q IS EXCEEDED IN SECTOR	DOWNWIND SECTOR
S	5000.	1.49E-06	7.06E-07	4.86E-07	2.16E-07	6.77E-08	1.63E-08	25.5	S
SSW	5000.	1.33E-06	6.04E-07	4.07E-07	1.73E-07	5.03E-08	1.11E-08	348.2	SSW
SW	5000.	1.64E-06	7.26E-07	4.83E-07	2.00E-07	5.63E-08	1.20E-08	33.9	SW
WSW	5000.	1.77E-06	8.01E-07	5.38E-07	2.27E-07	6.58E-08	1.45E-08	39.0	WSW
W	5000.	1.86E-06	8.58E-07	5.83E-07	2.52E-07	7.56E-08	1.73E-08	43.7	W
WNW	5000.	1.56E-06	7.15E-07	4.84E-07	2.07E-07	6.14E-08	1.39E-08	29.2	WNW
NW	5000.	1.41E-06	6.63E-07	4.54E-07	2.00E-07	6.15E-08	1.45E-08	22.2	NW
NNW	5000.	1.28E-06	5.93E-07	4.04E-07	1.76E-07	5.32E-08	1.23E-08	17.7	NNW
N	5000.	1.36E-06	6.75E-07	4.76E-07	2.23E-07	7.53E-08	1.99E-08	20.0	N
NNE	5000.	1.15E-06	5.38E-07	3.68E-07	1.61E-07	4.92E-08	1.15E-08	13.0	NNE
NE	5000.	1.15E-06	5.19E-07	3.49E-07	1.48E-07	4.29E-08	9.45E-09	13.5	NE
ENE	5000.	1.05E-06	4.69E-07	3.12E-07	1.30E-07	3.66E-08	7.81E-09	11.0	ENE
E	5000.	1.12E-06	5.28E-07	3.63E-07	1.61E-07	5.00E-08	1.20E-08	14.0	E
ESE	5000.	1.04E-06	5.10E-07	3.57E-07	1.65E-07	5.43E-08	1.40E-08	14.1	ESE
SE	5000.	1.23E-06	6.16E-07	4.37E-07	2.07E-07	7.05E-08	1.89E-08	15.9	SE
SSE	5000.	1.42E-06	7.23E-07	5.15E-07	2.47E-07	8.62E-08	2.37E-08	22.0	SSE
MAX X/Q		1.86E-06				TOTAL HOURS AROUND SITE:		683.2	
SRP 2.3.4	5000.	1.67E-06	8.28E-07	5.83E-07	2.72E-07	9.07E-08	2.37E-08		
SITE LIMIT		1.67E-06	8.28E-07	5.83E-07	2.72E-07	9.07E-08	2.37E-08		

THE FIVE-PERCENT-FOR-THE-ENTIRE-SITE X/Q IS LIMITING.

X/Q VALUES (SEC/CUBIC METER) FOR FUMIGATION AT THE BOUNDARY:

DOWNWIND SECTOR	DISTANCE (METERS)	FUMIGATION X/Q
S	5000.	9.60E-06
SSW	5000.	9.60E-06
SW	5000.	9.60E-06
WSW	5000.	9.60E-06
W	5000.	9.60E-06
WNW	5000.	9.60E-06
NW	5000.	9.60E-06
NNW	5000.	9.60E-06
N	5000.	9.60E-06
NNE	5000.	9.60E-06
NE	5000.	9.60E-06
ENE	5000.	9.60E-06
E	5000.	9.60E-06
ESE	5000.	9.60E-06
SE	5000.	9.60E-06
SSE	5000.	9.60E-06

NOTE: VALUES ON THIS PAGE ARE APPROXIMATIONS ONLY. CHECK THE REASONABLENESS OF THE ENVELOPES COMPUTED FOR THE 0-2 HOUR VALUES. FOR ANY FAULTY ENVELOPES, ADJUST THE ABOVE VALUES.

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 04/20/08

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 97.5 meters
TYPE OF RELEASE: Stack Release DELTA-T HEIGHTS: 10.1-96.3 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, Tower 2 1984-1988 met data, 320 ft wind, 33-316 ft Delta T
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

RELATIVE CONCENTRATION (X/Q) VALUES (SEC/CUBIC METER)
VERSUS
AVERAGING TIME

DOWNWIND SECTOR	DISTANCE (METERS)	0-2 HOURS	0-8 HOURS	8-24 HOURS	1-4 DAYS	4-30 DAYS	ANNUAL AVERAGE	HOURS PER YEAR MAX 0-2 HR X/Q IS EXCEEDED IN SECTOR	DOWNWIND SECTOR
S	6000.	1.40E-06	6.66E-07	4.59E-07	2.05E-07	6.44E-08	1.56E-08	25.5	S
SSW	6000.	1.24E-06	5.65E-07	3.81E-07	1.62E-07	4.74E-08	1.06E-08	384.5	SSW
SW	6000.	1.53E-06	6.78E-07	4.52E-07	1.87E-07	5.28E-08	1.12E-08	33.6	SW
WSW	6000.	1.66E-06	7.51E-07	5.05E-07	2.13E-07	6.17E-08	1.35E-08	38.9	WSW
W	6000.	1.75E-06	8.06E-07	5.48E-07	2.37E-07	7.10E-08	1.63E-08	43.7	W
WNW	6000.	1.47E-06	6.72E-07	4.55E-07	1.95E-07	5.78E-08	1.31E-08	29.2	WNW
NW	6000.	1.33E-06	6.26E-07	4.30E-07	1.90E-07	5.89E-08	1.41E-08	22.2	NW
NNW	6000.	1.20E-06	5.62E-07	3.84E-07	1.68E-07	5.15E-08	1.21E-08	17.7	NNW
N	6000.	1.27E-06	6.39E-07	4.52E-07	2.14E-07	7.29E-08	1.95E-08	20.0	N
NNE	6000.	1.11E-06	5.20E-07	3.56E-07	1.57E-07	4.84E-08	1.15E-08	13.6	NNE
NE	6000.	1.08E-06	4.92E-07	3.33E-07	1.42E-07	4.19E-08	9.40E-09	13.5	NE
ENE	6000.	1.00E-06	4.49E-07	3.01E-07	1.26E-07	3.59E-08	7.77E-09	11.5	ENE
E	6000.	1.08E-06	5.10E-07	3.51E-07	1.56E-07	4.86E-08	1.17E-08	14.1	E
ESE	6000.	9.78E-07	4.81E-07	3.38E-07	1.57E-07	5.19E-08	1.35E-08	14.1	ESE
SE	6000.	1.18E-06	5.91E-07	4.19E-07	1.98E-07	6.79E-08	1.83E-08	16.0	SE
SSE	6000.	1.34E-06	6.80E-07	4.85E-07	2.33E-07	8.12E-08	2.24E-08	22.0	SSE
MAX X/Q		1.75E-06				TOTAL HOURS AROUND SITE:		720.4	
SRP 2.3.4	6000.	1.65E-06	8.09E-07	5.67E-07	2.62E-07	8.67E-08	2.24E-08		
SITE LIMIT		1.65E-06	8.09E-07	5.67E-07	2.62E-07	8.67E-08	2.24E-08		

THE FIVE-PERCENT-FOR-THE-ENTIRE-SITE X/Q IS LIMITING.

X/Q VALUES (SEC/CUBIC METER) FOR FUMIGATION AT THE BOUNDARY:

DOWNWIND SECTOR	DISTANCE (METERS)	FUMIGATION X/Q
S	6000.	8.14E-06
SSW	6000.	8.14E-06
SW	6000.	8.14E-06
WSW	6000.	8.14E-06
W	6000.	8.14E-06
WNW	6000.	8.14E-06
NW	6000.	8.14E-06
NNW	6000.	8.14E-06
N	6000.	8.14E-06
NNE	6000.	8.14E-06
NE	6000.	8.14E-06
ENE	6000.	8.14E-06
E	6000.	8.14E-06
ESE	6000.	8.14E-06
SE	6000.	8.14E-06
SSE	6000.	8.14E-06

NOTE: VALUES ON THIS PAGE ARE APPROXIMATIONS ONLY. CHECK THE REASONABLENESS OF THE ENVELOPES COMPUTED FOR THE 0-2 HOUR VALUES. FOR ANY FAULTY ENVELOPES, ADJUST THE ABOVE VALUES.

Units 2 and 3 Reactor Building Stacks, Reactor Building Personnel Access Doors, Railway Bay Doors, Roof Scuttle, and Ground-Level Hatch to EAB (River Tower/Tower 1A Meteorology; RG 1.23, Revision 1 Wind Speed Categories)

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   1  1111
Peach Bottom                                  Ground Release
13.7 meters          10.4-21.1 meters

PB, 84-88, RG 1.23 R1 wnd cats, 1A met (w/ RT 45' wnd), RB Stack to EAB
   11    0
2584. 54.3 10.0 13.7
    0    0    1    1    4    4    4
  48.  50.  50.  45.  40.  42.  35.  23.  28.  17.  14.  25.  18.  22.  18.  33.
  41.  33.  31.  44.  82.  90.  88.  27.  30.  14.  15.   8.  19.  20.  14.  38.
  42.  26.  26.  32.  88.  99.  88.  58.  18.   8.   4.   0.   9.  17.  24.  36.
  78.  51.  47.  63.  92. 184. 249.  79.  39.  15.   9.   9.  14.  12. 105.  89.
 112.  45.  26.  31.  58.  83. 240. 112.  64.  22.  13.  12.  19.  18. 146. 153.
 103.  19.  17.   7.  22.  26. 121. 131.  77.  19.  23.  20.  27.  39. 151. 189.
  90.  11.   2.   8.   3.  10.  27. 135.  50.   9.   1.   4.  21.  29. 160. 217.
  78.  11.   4.   1.   1.   9.  10. 103.  44.   7.   0.   1.  22.  76. 267. 348.
  24.   1.   1.   0.   0.   2.   0.  11.   0.   1.   0.   0.   0.  26. 131. 105.
   5.   0.   0.   0.   0.   0.   0.   2.   0.   0.   0.   0.   0.  11.  72.  43.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
  16.  17.  18.   7.  14.  17.  19.   8.   7.   3.   3.   6.   7.   6.  11.  10.
  19.  16.  15.  22.  22.  27.  29.  11.   6.   1.   2.   4.   3.   7.  13.  21.
  15.  10.  10.  30.  44.  30.  26.   8.   5.   1.   3.   4.   2.   8.  13.  22.
  40.  18.  25.  29.  62.  73.  86.  39.  16.  14.  10.   9.  13.  12.  60.  42.
  47.  28.  30.  14.  28.  51.  70.  41.  22.   9.  19.  12.  26.  21.  54.  48.
  45.  10.   9.   5.  20.  41.  48.  41.  31.  10.  23.  17.  32.  51.  71.  73.
  42.   9.   5.   1.   6.  13.  20.  48.  18.   2.   6.   5.  20.  44.  81.  66.
  34.   0.   3.   1.   0.  10.   8.  26.   7.   3.   3.   4.  16. 112. 172. 128.
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  34.  30.  47.  36.  46.  39.  62.  24.  18.   8.  10.  15.  16.  25.  31.  28.
  27.  30.  63.  55.  73.  71.  94.  32.  23.  17.  17.  19.  16.  36.  58.  43.
 110.  60.  83.  93. 119. 162. 213.  98.  74.  39.  37.  48.  67.  68. 122.  90.
 120.  53.  42.  39.  80. 125. 219. 146.  75.  39.  39.  70.  95. 105. 181. 120.
  93.  32.  18.  21.  58.  89.  97. 197.  60.  17.  36.  27.  87. 161. 234. 126.
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  65.  28.  29.  24.  36.  50.  69.  44.  27.  27.  27.  29.  32.  29.  48.  78.
  40.  32.  16.  32.  28.  59.  86.  36.  10.  18.  34.  20.  33.  33.  34.  83.
  38.  25.  30.  35.  34.  68. 127.  45.  48.  30.  35.  25.  45.  35.  56.  59.
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  97.  21.  18.  22.  36.  80. 143. 160.  72.  23.  23.  30.  63. 131. 164.  70.
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  53.  14.  17.  11.  17.  52. 111. 135.  73.  17.  21.  33.  53. 105. 119.  69.
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  99.  41.  38.  36.  46.  74. 121. 147. 179. 127. 221. 290. 403. 351. 423. 265.
  95.  37.  25.  45.  43.  59. 147. 167. 178. 146. 223. 304. 520. 448. 491. 325.
  57.  21.  27.   7.  27.  52. 151. 137. 121.  82. 122. 218. 443. 286. 303. 218.
  63.  22.   9.   4.  20.  54. 147. 160. 102.  53.  78. 125. 315. 264. 346. 209.
  49.   6.   4.   2.   1.  28.  32.  63.  29.  10.   6.  16.  90. 142. 191.  78.
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   0.   0.   0.   0.   0.   0.   0.   1.   0.   0.   0.   0.   0.   0.   0.   0.
 101. 0.50 2.35 3.47 4.59 6.82 9.06 11.313.5318.0122.37 55.0
0823.0823.0823.0823.0823.0823.0823.0823.0823.0823.0823.0823.0823.0823.0823.0823.
-100.7300.7300.7300.7300.7300.7300.7300.7300.7300.7300.7300.7300.7300.7300.7300.
   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.
   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 05/09/08

PRINTOUT OF INPUT CARDS

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   1     00010 01111 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000   2     Peach Bottom
Ground Release
   3     13.7 meters          10.4-21.1 meters
   4
   5     PB, 84-88, RG 1.23 R1 wnd cats, 1A met (w/ RT 45' wnd), RB Stack to EAB            6          11 42043     0
   7          0.500  2584.000    54.300    10.000    13.700
   8        0.000  0.000  1.000  1.000  4.000  4.000  4.000
   9       48.000 50.000 50.000 45.000 40.000 42.000 35.000 23.000 28.000 17.000 14.000 25.000 18.000 22.000 18.000 33.000
   9       41.000 33.000 31.000 44.000 82.000 90.000 88.000 27.000 30.000 14.000 15.000  8.000 19.000 20.000 14.000 38.000
   9       42.000 26.000 26.000 32.000 88.000 99.000 88.000 58.000 18.000  8.000  4.000  0.000  9.000 17.000 24.000 36.000
   9       78.000 51.000 47.000 63.000 92.000184.000249.000 79.000 39.000 15.000  9.000  9.000 14.000 12.000105.000 89.000
   9      112.000 45.000 26.000 31.000 58.000 83.000240.000112.000 64.000 22.000 13.000 12.000 19.000 18.000146.000153.000
   9      103.000 19.000 17.000  7.000 22.000 26.000121.000131.000 77.000 19.000 23.000 20.000 27.000 39.000151.000189.000
   9       90.000 11.000  2.000  8.000  3.000 10.000 27.000135.000 50.000  9.000  1.000  4.000 21.000 29.000160.000217.000
   9       78.000 11.000  4.000  1.000  1.000  9.000 10.000103.000 44.000  7.000  0.000  1.000 22.000 76.000267.000348.000
   9       24.000  1.000  1.000  0.000  0.000  2.000  0.000 11.000  0.000  1.000  0.000  0.000  0.000 26.000131.000105.000
   9        5.000  0.000  0.000  0.000  0.000  0.000  0.000  2.000  0.000  0.000  0.000  0.000  0.000 11.000 72.000 43.000
   9        0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
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   9        0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9        0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9        0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       16.000 17.000 18.000  7.000 14.000 17.000 19.000  8.000  7.000  3.000  3.000  6.000  7.000  6.000 11.000 10.000
   9       19.000 16.000 15.000 22.000 22.000 27.000 29.000 11.000  6.000  1.000  2.000  4.000  3.000  7.000 13.000 21.000
   9       15.000 10.000 10.000 30.000 44.000 30.000 26.000  8.000  5.000  1.000  3.000  4.000  2.000  8.000 13.000 22.000
   9       40.000 18.000 25.000 29.000 62.000 73.000 86.000 39.000 16.000 14.000 10.000  9.000 13.000 12.000 60.000 42.000
   9       47.000 28.000 30.000 14.000 28.000 51.000 70.000 41.000 22.000  9.000 19.000 12.000 26.000 21.000 54.000 48.000
   9       45.000 10.000  9.000  5.000 20.000 41.000 48.000 41.000 31.000 10.000 23.000 17.000 32.000 51.000 71.000 73.000
   9       42.000  9.000  5.000  1.000  6.000 13.000 20.000 48.000 18.000  2.000  6.000  5.000 20.000 44.000 81.000 66.000
   9       34.000  0.000  3.000  1.000  0.000 10.000  8.000 26.000  7.000  3.000  3.000  4.000 16.000112.000172.000128.000
   9        5.000  0.000  1.000  0.000  0.000  2.000  3.000  7.000  0.000  1.000  0.000  1.000  1.000 55.000 68.000 47.000
   9        0.000  0.000  0.000  0.000  0.000  0.000  0.000  2.000  0.000  0.000  0.000  0.000  0.000 15.000 51.000 26.000
   9       58.000 32.000 23.000 45.000 46.000 55.000 42.000 25.000 16.000  9.000 15.000 13.000 17.000 15.000 30.000 42.000
   9       34.000 30.000 47.000 36.000 46.000 39.000 62.000 24.000 18.000  8.000 10.000 15.000 16.000 25.000 31.000 28.000
   9       27.000 30.000 63.000 55.000 73.000 71.000 94.000 32.000 23.000 17.000 17.000 19.000 16.000 36.000 58.000 43.000
   9      110.000 60.000 83.000 93.000119.000162.000213.000 98.000 74.000 39.000 37.000 48.000 67.000 68.000122.000 90.000
   9      120.000 53.000 42.000 39.000 80.000125.000219.000146.000 75.000 39.000 39.000 70.000 95.000105.000181.000120.000
   9       93.000 32.000 18.000 21.000 58.000 89.000 97.000197.000 60.000 17.000 36.000 27.000 87.000161.000234.000126.000
   9       60.000 21.000  7.000  6.000 17.000 48.000 45.000112.000 47.000 15.000 22.000 10.000 55.000229.000219.000152.000
   9       45.000 14.000  4.000  1.000 13.000 29.000 32.000 99.000 23.000  7.000  5.000  6.000 64.000432.000422.000237.000
   9        7.000  2.000  0.000  0.000  3.000  4.000  6.000 41.000  1.000  0.000  0.000  0.000  6.000124.000259.000111.000
   9        3.000  1.000  0.000  0.000  0.000  0.000  1.000  4.000  0.000  0.000  0.000  0.000  1.000 31.000107.000 43.000
   9       65.000 28.000 29.000 24.000 36.000 50.000 69.000 44.000 27.000 27.000 27.000 29.000 32.000 29.000 48.000 78.000
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   9      40.000 32.000 16.000 32.000 28.000 59.000 86.000 36.000 10.000 18.000 34.000 20.000 33.000 33.000 34.000 83.000
   9      38.000 25.000 30.000 35.000 34.000 68.000127.000 45.000 48.000 30.000 35.000 25.000 45.000 35.000 56.000 59.000
   9      87.000 27.000 35.000 50.000 47.000 90.000171.000127.000 87.000 16.000 43.000 53.000 73.000 81.000148.000 71.000
   9      97.000 21.000 18.000 22.000 36.000 80.000143.000160.000 72.000 23.000 23.000 30.000 63.000131.000164.000 70.000
   9      71.000 25.000 12.000  8.000 19.000 49.000 84.000158.000 40.000  4.000 18.000  6.000 22.000134.000192.000 90.000
   9      39.000  7.000  4.000  1.000  9.000 13.000 16.000 90.000 13.000  2.000  3.000  1.000 11.000120.000137.000 74.000
   9      29.000  1.000  0.000  2.000 14.000 20.000 18.000 68.000  9.000  1.000  1.000  1.000  2.000 87.000150.000 70.000
   9       2.000  0.000  0.000  0.000  7.000  0.000  0.000 25.000  6.000  0.000  0.000  0.000  0.000 10.000 44.000 20.000
   9       0.000  0.000  0.000  0.000  0.000  2.000  1.000  1.000  0.000  0.000  0.000  0.000  0.000 10.000  6.000  3.000
   9      64.000 37.000 30.000 19.000 36.000 63.000 88.000 71.000 53.000 21.000 33.000 28.000 61.000 54.000103.000102.000
   9      27.000 15.000 18.000 23.000 24.000 33.000 80.000 48.000 46.000 30.000 42.000 60.000 60.000 45.000 70.000 74.000
   9      29.000 14.000 15.000  6.000 22.000 37.000 93.000 73.000 44.000 21.000 28.000 41.000 65.000 45.000 67.000 58.000
   9      53.000 14.000 17.000 11.000 17.000 52.000111.000135.000 73.000 17.000 21.000 33.000 53.000105.000119.000 69.000
   9      28.000  4.000 11.000  8.000  4.000 30.000 70.000127.000 44.000 15.000  8.000 15.000 25.000 81.000128.000 60.000
   9      14.000  1.000  1.000  1.000  4.000 11.000 20.000 85.000 26.000  5.000  0.000  4.000  5.000 74.000104.000 46.000
   9       2.000  0.000  0.000  1.000  1.000  0.000  1.000 19.000  9.000  0.000  0.000  0.000  2.000 28.000 45.000 19.000
   9       0.000  0.000  0.000  1.000 10.000  0.000  0.000 10.000  3.000  0.000  0.000  0.000  0.000  5.000  7.000  9.000
   9       0.000  0.000  0.000  0.000  3.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  0.000  0.000  2.000
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   9      99.000 41.000 38.000 36.000 46.000 74.000121.000147.000179.000127.000221.000290.000403.000351.000423.000265.000
   9      95.000 37.000 25.000 45.000 43.000 59.000147.000167.000178.000146.000223.000304.000520.000448.000491.000325.000
   9      57.000 21.000 27.000  7.000 27.000 52.000151.000137.000121.000 82.000122.000218.000443.000286.000303.000218.000
   9      63.000 22.000  9.000  4.000 20.000 54.000147.000160.000102.000 53.000 78.000125.000315.000264.000346.000209.000
   9      49.000  6.000  4.000  2.000  1.000 28.000 32.000 63.000 29.000 10.000  6.000 16.000 90.000142.000191.000 78.000
   9      10.000  1.000  1.000  0.000  0.000  4.000  5.000 12.000 12.000  3.000  0.000  1.000  6.000 81.000 90.000 17.000
   9       1.000  1.000  2.000  0.000  0.000  0.000  0.000  6.000  4.000  0.000  0.000  2.000  0.000 16.000 21.000 10.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  7.000  3.000  0.000  0.000  0.000  0.000  3.000  6.000  4.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  2.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  10        101.  0.500
2.350  3.470  4.590  6.820  9.060 11.300 13.530 18.010 22.370 55.000  0.000  0.000  0.000  11        823.   823.   823.   823.   823.   823.
823.   823.   823.   823.   823.   823.   823.   823.   823.   823.  11       -100.  7300.  7300.  7300.  7300.  7300.  7300.  7300.  7300.  7300.
7300.  7300.  7300.  7300.  7300.  7300.  12          1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0
1.0    1.0    1.0
  12         1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 05/09/08

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 13.7 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: PB, 84-88, RG 1.23 R1 wnd cats, 1A met (w/ RT 45' wnd), RB Stack to EAB
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

RELATIVE CONCENTRATION (X/Q) VALUES (SEC/CUBIC METER)
VERSUS
AVERAGING TIME

DOWNWIND SECTOR	DISTANCE (METERS)	0-2 HOURS	0-8 HOURS	8-24 HOURS	1-4 DAYS	4-30 DAYS	ANNUAL AVERAGE	HOURS PER YEAR MAX 0-2 HR X/Q IS EXCEEDED IN SECTOR	DOWNWIND SECTOR
S	823.	2.67E-04	1.29E-04	8.99E-05	4.10E-05	1.33E-05	3.34E-06	10.0	S
SSW	823.	1.44E-04	6.79E-05	4.65E-05	2.05E-05	6.33E-06	1.50E-06	319.8	SSW
SW	823.	1.25E-04	5.95E-05	4.11E-05	1.84E-05	5.79E-06	1.41E-06	3.8	SW
WSW	823.	1.16E-04	5.58E-05	3.87E-05	1.76E-05	5.63E-06	1.40E-06	3.6	WSW
W	823.	1.57E-04	7.59E-05	5.27E-05	2.39E-05	7.68E-06	1.91E-06	4.6	W
WNW	823.	2.35E-04	1.14E-04	7.98E-05	3.66E-05	1.19E-05	3.03E-06	7.4	WNW
NW	823.	3.00E-04	1.53E-04	1.10E-04	5.30E-05	1.86E-05	5.19E-06	12.2	NW
NNW	823.	3.19E-04	1.60E-04	1.14E-04	5.37E-05	1.84E-05	4.94E-06	14.9	NNW
N	823.	3.39E-04	1.63E-04	1.13E-04	5.13E-05	1.64E-05	4.08E-06	18.1	N
NNE	823.	2.88E-04	1.32E-04	8.95E-05	3.85E-05	1.14E-05	2.60E-06	12.8	NNE
NE	823.	3.72E-04	1.76E-04	1.21E-04	5.38E-05	1.68E-05	4.03E-06	22.5	NE
ENE	823.	4.03E-04	1.97E-04	1.38E-04	6.37E-05	2.09E-05	5.37E-06	29.7	ENE
E	823.	4.45E-04	2.32E-04	1.68E-04	8.30E-05	3.02E-05	8.76E-06	41.6	E
ESE	823.	4.27E-04	2.22E-04	1.60E-04	7.89E-05	2.85E-05	8.21E-06	36.1	ESE
SE	823.	4.51E-04	2.42E-04	1.77E-04	8.97E-05	3.39E-05	1.03E-05	43.7	SE
SSE	823.	3.93E-04	2.03E-04	1.46E-04	7.09E-05	2.53E-05	7.16E-06	27.1	SSE
MAX X/Q		4.51E-04				TOTAL HOURS AROUND SITE:		607.7	
SRP 2.3.4	823.	7.98E-04	3.89E-04	2.71E-04	1.24E-04	4.06E-05	1.03E-05		
SITE LIMIT		4.08E-04	2.22E-04	1.64E-04	8.47E-05	3.28E-05	1.03E-05		

THE FIVE-PERCENT-FOR-THE-ENTIRE-SITE X/Q IS LIMITING.

NOTE: VALUES ON THIS PAGE ARE APPROXIMATIONS ONLY.
CHECK THE REASONABLENESS OF THE ENVELOPES
COMPUTED FOR THE 0-2 HOUR VALUES. FOR ANY
FAULTY ENVELOPES, ADJUST THE ABOVE VALUES.

Units 2 and 3 Reactor Building Stacks, Reactor Building Personnel Access Doors, Railway Bay Doors, Roof Scuttle, and Ground-Level Hatch to EAB and LPZ (Tower 1A Meteorology; RG 1.23, Revision 0 Wind Speed Categories)

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   1  1111
Peach Bottom                                  Ground Release
10.4 meters          10.4-21.1 meters

Peach Bottom, 1984-1988 Tower 1A met (92 ft), RB Stack to EAB and LPZ
    7    0
2584. 54.3 10.0 28.0
    2    0    0    1    9   14   49
  59.  78. 114. 172. 344. 227.  78.  20.   9.   0.   6.   8.  11.   2.   7.  18.
 322. 132. 116. 139. 317. 639. 797. 176.  30.  12.  14.  50.  81.  36.  58. 266.
 221.  32.  19.  26.  48. 221. 202.   4.   0.   0.   0.   0. 119. 149. 222. 979.
  50.   3.   4.   3.   0.  18.   4.   0.   0.   0.   0.   0.  17.  59. 135. 394.
   6.   0.   1.   0.   0.   1.   0.   0.   0.   0.   0.   0.   0.   0.   0.  22.
   0.   0.   0.   0.   0.   1.   0.   0.   0.   0.   0.   0.   0.   0.   0.   5.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
  23.  32.  34.  47.  97. 101.  51.  21.   5.   4.   3.   7.   8.   4.   4.  11.
 118.  56.  52.  69. 137. 234. 296.  65.  10.   6.  14.  54. 106.  58.  60. 155.
  72.   6.  31.  10.  39.  92.  71.   1.   0.   0.   0.   1. 126. 206. 211. 332.
  14.   0.   1.   3.   0.  14.   8.   0.   0.   0.   0.   0.  14.  85.  75. 118.
   0.   0.   0.   0.   0.   0.   1.   0.   0.   0.   0.   0.   0.   2.   3.   8.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   1.   1.   0.   0.
  74.  45.  60.  80. 189. 271. 371. 131.  55.  36.  45.  69.  76.  30.  22.  33.
 188. 143. 163. 164. 305. 416. 846. 248.  40.  20.  26. 156. 485. 362. 341. 348.
 122.  27.  45.  25.  88. 173. 201.   5.   0.   1.   2.  12. 384. 924. 757. 465.
  18.   4.   5.   1.  15.  28.  14.   1.   0.   0.   0.   0.  37. 166. 163.  94.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   8.   3.   3.   9.
   0.   1.   2.   0.   1.   0.   1.   0.   0.   0.   0.   1.   0.   1.   0.   1.
  67.  36.  57.  40. 113. 331. 722. 267. 122.  88.  99. 141. 136.  56.  53.  57.
  92.  54.  77.  63. 100. 124. 557. 209.  36.  16.  26. 192. 501. 496. 277. 153.
  82.  15.  15.  21.  55.  75.  61.  12.   0.   1.   0.   9.  81. 360. 212. 159.
  10.   0.   0.   0.  14.  14.   5.   0.   0.   0.   0.   0.   4.  15.  15.   9.
   0.   0.   0.   0.   1.   3.   0.   0.   0.   0.   0.   0.   1.   2.   0.   0.
   0.   0.   0.   0.   0.   0.   0.   0.   2.   0.   0.   0.   1.   0.   0.   0.
  43.  27.  26.  39.  78. 238. 641. 339. 172. 120. 137. 169. 176.  86.  72.  66.
  31.   7.  21.  17.  16.  36. 201. 120.  32.  12.  30. 298. 421. 307. 172.  80.
   6.   1.   2.   2.  17.   6.   0.   0.   0.   0.   1.  14.  49.  66.  34.  25.
   0.   0.   0.   0.   5.   0.   0.   0.   0.   0.   0.   0.   1.   1.   1.   2.
   0.   0.   0.   0.   2.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
  50.  43.  36.  32.  79. 210. 853.1062.1019. 702. 696. 929. 739. 254. 141.  86.
  16.   3.   1.   4.   5.  12. 105.  93.  47.  29.  79.1681.1726. 393. 151.  51.
   6.   0.   0.   0.   0.   1.   5.   0.   0.   0.   0.  90. 187.  61.  14.  10.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
 101. 0.50 3.50 7.50 12.5 18.5 24.0 55.0
0823.0823.0823.0823.0823.0823.0823.0823.0823.0823.0823.0823.0823.0823.0823.
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7300.7300.7300.7300.7300.7300.7300.7300.7300.7300.7300.7300.7300.7300.7300.
   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.
1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0          RUN DATE: 04/28/08


PRINTOUT OF INPUT CARDS

   1     00010 01111 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000   2     Peach Bottom
Ground Release
   3     10.4 meters          10.4-21.1 meters
   4
   5     Peach Bottom, 1984-1988 Tower 1A met (92 ft), RB Stack to EAB and LPZ              6          7 43290     0
   7          0.500  2584.000    54.300    10.000    28.000
   8       2.000  0.000  0.000  1.000  9.000 14.000 49.000
   9      59.000 78.000114.000172.000344.000227.000 78.000 20.000  9.000  0.000  6.000  8.000 11.000  2.000  7.000 18.000
   9     322.000132.000116.000139.000317.000639.000797.000176.000 30.000 12.000 14.000 50.000 81.000 36.000 58.000266.000
   9     221.000 32.000 19.000 26.000 48.000221.000202.000  4.000  0.000  0.000  0.000  0.000119.000149.000222.000979.000
   9      50.000  3.000  4.000  3.000  0.000 18.000  4.000  0.000  0.000  0.000  0.000  0.000 17.000 59.000135.000394.000
   9       6.000  0.000  1.000  0.000  0.000  1.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000 22.000
   9       0.000  0.000  0.000  0.000  0.000  1.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  5.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9      23.000 32.000 34.000 47.000 97.000101.000 51.000 21.000  5.000  4.000  3.000  7.000  8.000  4.000  4.000 11.000
   9     118.000 56.000 52.000 69.000137.000234.000296.000 65.000 10.000  6.000 14.000 54.000106.000 58.000 60.000155.000
   9      72.000  6.000 31.000 10.000 39.000 92.000 71.000  1.000  0.000  0.000  0.000  1.000126.000206.000211.000332.000
   9      14.000  0.000  1.000  3.000  0.000 14.000  8.000  0.000  0.000  0.000  0.000  0.000 14.000 85.000 75.000118.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  1.000  0.000  0.000  0.000  0.000  0.000  0.000  2.000  3.000  8.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  1.000  0.000  0.000
   9      74.000 45.000 60.000 80.000189.000271.000371.000131.000 55.000 36.000 45.000 69.000 76.000 30.000 22.000 33.000
   9     188.000143.000163.000164.000305.000416.000846.000248.000 40.000 20.000 26.000156.000485.000362.000341.000348.000
   9     122.000 27.000 45.000 25.000 88.000173.000201.000  5.000  0.000  1.000  2.000 12.000384.000924.000757.000465.000
   9      18.000  4.000  5.000  1.000 15.000 28.000 14.000  1.000  0.000  0.000  0.000  0.000 37.000166.000163.000 94.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  8.000  3.000  3.000  9.000
   9       0.000  1.000  2.000  0.000  1.000  0.000  1.000  0.000  0.000  0.000  0.000  1.000  0.000  1.000  0.000  1.000
   9      67.000 36.000 57.000 40.000113.000331.000722.000267.000122.000 88.000 99.000141.000136.000 56.000 53.000 57.000
   9      92.000 54.000 77.000 63.000100.000124.000557.000209.000 36.000 16.000 26.000192.000501.000496.000277.000153.000
   9      82.000 15.000 15.000 21.000 55.000 75.000 61.000 12.000  0.000  1.000  0.000  9.000 81.000360.000212.000159.000
   9      10.000  0.000  0.000  0.000 14.000 14.000  5.000  0.000  0.000  0.000  0.000  0.000  4.000 15.000 15.000  9.000
   9       0.000  0.000  0.000  0.000  1.000  3.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  2.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  2.000  0.000  0.000  0.000  1.000  0.000  0.000  0.000
   9      43.000 27.000 26.000 39.000 78.000238.000641.000339.000172.000120.000137.000169.000176.000 86.000 72.000 66.000
   9      31.000  7.000 21.000 17.000 16.000 36.000201.000120.000 32.000 12.000 30.000298.000421.000307.000172.000 80.000
   9       6.000  1.000  2.000  2.000 17.000  6.000  0.000  0.000  0.000  0.000  1.000 14.000 49.000 66.000 34.000 25.000
   9       0.000  0.000  0.000  0.000  5.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  1.000  1.000  2.000
   9       0.000  0.000  0.000  0.000  2.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9      50.000 43.000 36.000 32.000 79.000210.000853.000**************702.000696.000929.000739.000254.000141.000 86.000
   9      16.000  3.000  1.000  4.000  5.000 12.000105.000 93.000 47.000 29.000 79.000**************393.000151.000 51.000
   9       6.000  0.000  0.000  0.000  0.000  1.000  5.000  0.000  0.000  0.000  0.000 90.000187.000 61.000 14.000 10.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  10        101.  0.500
3.500  7.500 12.500 18.500 24.000 55.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  11        823.   823.   823.   823.   823.   823.
823.   823.   823.   823.   823.   823.   823.   823.   823.   823.   823.   11        7300.  7300.  7300.  7300.  7300.  7300.  7300.  7300.  7300.  7300.
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7300.  7300.  7300.  7300.  7300.  7300.  12        1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0
1.0    1.0    1.0
  12          1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0   1.0
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 04/28/08

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.4 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988 Tower 1A met (92 ft), RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

RELATIVE CONCENTRATION (X/Q) VALUES (SEC/CUBIC METER) VERSUS AVERAGING TIME

DOWNWIND SECTOR	DISTANCE (METERS)	0-2 HOURS	0-8 HOURS	8-24 HOURS	1-4 DAYS	4-30 DAYS	ANNUAL AVERAGE	HOURS PER YEAR MAX 0-2 HR X/Q IS EXCEEDED IN SECTOR	DOWNWIND SECTOR
S	823.	1.22E-04	6.09E-05	4.30E-05	2.02E-05	6.82E-06	1.81E-06	1.9	S
SSW	823.	8.15E-05	4.01E-05	2.81E-05	1.30E-05	4.31E-06	1.11E-06	335.4	SSW
SW	823.	8.43E-05	4.21E-05	2.97E-05	1.40E-05	4.74E-06	1.26E-06	1.3	SW
WSW	823.	9.36E-05	4.61E-05	3.24E-05	1.50E-05	4.99E-06	1.30E-06	1.2	WSW
W	823.	1.79E-04	9.04E-05	6.43E-05	3.07E-05	1.06E-05	2.89E-06	3.0	W
WNW	823.	3.49E-04	1.79E-04	1.29E-04	6.24E-05	2.21E-05	6.20E-06	8.2	WNW
NW	823.	6.68E-04	3.64E-04	2.69E-04	1.39E-04	5.40E-05	1.70E-05	34.9	NW
NNW	823.	7.35E-04	3.78E-04	2.71E-04	1.32E-04	4.69E-05	1.32E-05	43.7	NNW
N	823.	7.21E-04	3.58E-04	2.52E-04	1.18E-04	3.96E-05	1.04E-05	41.8	N
NNE	823.	6.11E-04	2.93E-04	2.03E-04	9.13E-05	2.90E-05	7.15E-06	28.3	NNE
NE	823.	6.08E-04	2.94E-04	2.04E-04	9.27E-05	2.99E-05	7.46E-06	28.1	NE
ENE	823.	6.92E-04	3.69E-04	2.70E-04	1.37E-04	5.13E-05	1.55E-05	38.0	ENE
E	823.	6.25E-04	3.39E-04	2.50E-04	1.29E-04	4.97E-05	1.55E-05	29.9	E
ESE	823.	3.81E-04	1.95E-04	1.40E-04	6.76E-05	2.38E-05	6.66E-06	9.9	ESE
SE	823.	2.59E-04	1.30E-04	9.22E-05	4.37E-05	1.50E-05	4.04E-06	5.4	SE
SSE	823.	1.78E-04	9.03E-05	6.43E-05	3.08E-05	1.07E-05	2.92E-06	3.2	SSE
MAX X/Q		7.35E-04				TOTAL HOURS AROUND SITE:		614.1	
SRP 2.3.4	823.	1.28E-03	6.26E-04	4.38E-04	2.02E-04	6.63E-05	1.70E-05		
SITE LIMIT		6.53E-04	3.57E-04	2.64E-04	1.37E-04	5.36E-05	1.70E-05		

THE FIVE-PERCENT-FOR-THE-ENTIRE-SITE X/Q IS LIMITING.

NOTE: VALUES ON THIS PAGE ARE APPROXIMATIONS ONLY.
CHECK THE REASONABLENESS OF THE ENVELOPES
COMPUTED FOR THE 0-2 HOUR VALUES. FOR ANY
FAULTY ENVELOPES, ADJUST THE ABOVE VALUES.

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 04/28/08

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.4 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988 Tower 1A met (92 ft), RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

RELATIVE CONCENTRATION (X/Q) VALUES (SEC/CUBIC METER) VERSUS AVERAGING TIME

DOWNWIND SECTOR	DISTANCE (METERS)	0-2 HOURS	0-8 HOURS	8-24 HOURS	1-4 DAYS	4-30 DAYS	ANNUAL AVERAGE	HOURS PER YEAR MAX 0-2 HR X/Q IS EXCEEDED IN SECTOR	DOWNWIND SECTOR
S	7300.	1.21E-05	5.23E-06	3.43E-06	1.38E-06	3.73E-07	7.53E-08	1.9	S
SSW	7300.	5.28E-06	2.41E-06	1.63E-06	6.97E-07	2.06E-07	4.63E-08	335.4	SSW
SW	7300.	6.81E-06	3.04E-06	2.03E-06	8.48E-07	2.42E-07	5.20E-08	1.3	SW
WSW	7300.	6.49E-06	2.93E-06	1.97E-06	8.30E-07	2.40E-07	5.27E-08	1.2	WSW
W	7300.	1.81E-05	7.87E-06	5.19E-06	2.10E-06	5.75E-07	1.18E-07	3.0	W
WNW	7300.	5.27E-05	2.20E-05	1.42E-05	5.51E-06	1.41E-06	2.67E-07	8.2	WNW
NW	7300.	1.01E-04	4.51E-05	3.01E-05	1.26E-05	3.57E-06	7.67E-07	34.9	NW
NNW	7300.	1.11E-04	4.70E-05	3.06E-05	1.20E-05	3.13E-06	6.06E-07	43.7	NNW
N	7300.	1.09E-04	4.45E-05	2.84E-05	1.07E-05	2.65E-06	4.79E-07	41.8	N
NNE	7300.	9.25E-05	3.64E-05	2.28E-05	8.31E-06	1.94E-06	3.29E-07	28.3	NNE
NE	7300.	9.21E-05	3.66E-05	2.30E-05	8.44E-06	2.00E-06	3.43E-07	28.1	NE
ENE	7300.	1.05E-04	4.59E-05	3.04E-05	1.24E-05	3.43E-06	7.12E-07	38.0	ENE
E	7300.	9.47E-05	4.21E-05	2.81E-05	1.17E-05	3.31E-06	7.06E-07	29.9	E
ESE	7300.	5.77E-05	2.41E-05	1.56E-05	6.06E-06	1.56E-06	2.96E-07	9.9	ESE
SE	7300.	3.83E-05	1.57E-05	1.01E-05	3.84E-06	9.60E-07	1.76E-07	5.4	SE
SSE	7300.	2.31E-05	9.70E-06	6.29E-06	2.45E-06	6.35E-07	1.22E-07	3.2	SSE
MAX X/Q		1.11E-04				TOTAL HOURS AROUND SITE:		614.1	
SRP 2.3.4	7300.	1.50E-04	6.26E-05	4.05E-05	1.57E-05	4.04E-06	7.67E-07		
SITE LIMIT		9.89E-05	4.43E-05	2.96E-05	1.24E-05	3.55E-06	7.67E-07		

THE FIVE-PERCENT-FOR-THE-ENTIRE-SITE X/Q IS LIMITING.

NOTE: VALUES ON THIS PAGE ARE APPROXIMATIONS ONLY.
CHECK THE REASONABLENESS OF THE ENVELOPES
COMPUTED FOR THE 0-2 HOUR VALUES. FOR ANY
FAULTY ENVELOPES, ADJUST THE ABOVE VALUES.

Units 2 and 3 Reactor Building Stacks, Reactor Building Personnel Access Doors, Railway Bay Doors, Roof Scuttle, and Ground-Level Hatch to EAB and LPZ (Tower 1 A Meteorology; RG 1.23, Revision 1 Wind Speed Categories)

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   1  1111
Peach Bottom                                  Ground Release
10.4 meters          10.4-21.1 meters

Peach Bottom, 1984-1988 Tower 1A met, RB Stack to EAB and LPZ
   11     0
2584. 54.3 10.0 28.0
    2     0     0     1     9    14    49
  19.   35.   52.   68.  119.   43.   18.    3.    1.    0.    1.    1.    2.    1.    2.    6.
  40.   43.   62.  104.  225.  184.   60.   17.    8.    0.    5.    7.    9.    1.    5.   12.
  67.   48.   49.   57.  141.  237.  144.   60.   17.    6.   12.   22.   13.    1.   10.   26.
 202.   74.   62.   65.  157.  343.  545.  106.   13.    6.    2.   28.   50.   25.   37.  160.
 161.   31.   18.   30.   49.  196.  252.   13.    0.    0.    0.    0.   66.   47.   64.  344.
  94.    8.    6.   12.   16.   74.   51.    1.    0.    0.    0.    0.   53.   87.  116.  496.
  35.    4.    3.    1.    2.   19.    8.    0.    0.    0.    0.    0.   25.   47.   91.  373.
  33.    2.    1.    3.    0.    9.    3.    0.    0.    0.    0.    0.   10.   37.   97.  238.
   7.    0.    1.    0.    0.    1.    0.    0.    0.    0.    0.    0.    0.    0.    0.   23.
   0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    6.
   0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
   0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
   0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
   0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
   0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
   0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
   0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
   0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
   4.   14.   13.   23.   49.   41.    7.    4.    0.    1.    1.    2.    2.    2.    1.    4.
  19.   18.   21.   24.   48.   60.   44.   17.    5.    3.    2.    5.    6.    2.    3.    7.
  33.   17.   17.   19.   56.   70.   86.   32.    7.    6.    7.   19.   16.   10.   12.   18.
  69.   33.   24.   43.   76.  133.  190.   33.    3.    0.    7.   31.   57.   27.   33.   93.
  44.   12.   29.   16.   30.   81.   62.    1.    0.    0.    0.    5.   85.   84.   76.  151.
  38.    0.    9.    1.   11.   36.   23.    0.    0.    0.    0.    0.   56.   92.  113.  166.
  10.    0.    4.    1.    3.   11.   10.    0.    0.    0.    0.    0.   27.   87.   65.  100.
  10.    0.    1.    2.    0.    9.    4.    0.    0.    0.    0.    0.    5.   49.   46.   74.
   0.    0.    0.    0.    0.    0.    1.    0.    0.    0.    0.    0.    0.    2.    4.   11.
   0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
  22.   19.   29.   43.  113.  131.   97.   50.   22.   15.   15.   14.   18.    8.    6.    7.
  52.   26.   31.   37.   76.  140.  274.   81.   33.   21.   30.   55.   58.   22.   16.   26.
  41.   40.   38.   41.  100.  134.  323.  106.   22.   15.   18.   60.   94.   37.   49.   62.
 114.   90.  104.  103.  168.  233.  448.  134.   17.    5.    8.   85.  304.  214.  203.  217.
  92.   27.   46.   39.   84.  146.  189.   13.    1.    1.    1.   19.  276.  463.  367.  260.
  54.   12.   15.    4.   35.   66.   76.    0.    0.    0.    1.    3.  143.  437.  363.  219.
  14.    2.    9.    3.   11.   18.   19.    0.    0.    0.    0.    1.   66.  213.  206.   92.
  13.    3.    1.    0.   10.   20.    6.    1.    0.    0.    0.    0.   23.   88.   73.   53.
   0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    8.    3.    3.   13.
   0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.    0.
  44.   25.   43.   30.   76.  240.  370.  149.   73.   47.   52.   55.   44.   21.   21.   27.
  23.   11.   14.   10.   37.   91.  352.  118.   49.   41.   47.   86.   92.   35.   32.   30.
  22.   15.   12.   17.   32.   48.  271.   93.   23.   12.   18.   92.  138.   67.   36.   32.
  59.   30.   50.   39.   49.   63.  260.  106.   12.    4.    7.   97.  298.  309.  171.   95.
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  47.  21.  21.  17.  55.  63.  61.  20.   1.   1.   1.  11. 126. 362. 199. 120.
  36.   3.   8.  10.  14.  21.  19.   2.   0.   0.   0.   0.  18. 105.  70.  54.
  16.   0.   1.   1.  10.  10.  10.   0.   0.   0.   0.   1.   4.  16.  17.  16.
   4.   0.   0.   0.   9.   7.   2.   0.   0.   0.   0.   0.   1.  11.  11.   4.
   0.   0.   0.   0.   1.   4.   0.   0.   0.   0.   0.   0.   2.   3.   0.   0.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
  27.  21.  17.  32.  62. 175. 393. 251. 130.  89.  80.  79.  79.  42.  46.  41.
  16.   6.   9.   7.  16.  63. 248.  88.  42.  31.  57.  90.  97.  44.  26.  25.
  17.   3.   8.   8.   4.  23. 154.  81.  24.   8.  23.  91. 125.  56.  37.  22.
  10.   4.  11.   5.   8.  12.  45.  36.   8.   4.   7. 182. 260. 191. 115.  49.
  10.   1.   4.   6.  10.   3.   2.   3.   0.   0.   1.  38.  80. 119.  44.  24.
   0.   0.   0.   0.   4.   4.   0.   0.   0.   0.   0.   1.   4.   7.  10.  10.
   0.   0.   0.   0.   9.   0.   0.   0.   0.   0.   0.   0.   1.   0.   0.   2.
   0.   0.   0.   0.   3.   0.   0.   0.   0.   0.   0.   0.   1.   1.   1.   0.
   0.   0.   0.   0.   2.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
  29.  26.  25.  29.  55. 161. 631. 864. 873. 573. 469. 420. 276. 127.  72.  43.
  21.  17.  11.   3.  24.  49. 222. 198. 146. 129. 227. 509. 463. 127.  69.  43.
  10.   2.   1.   2.   4.  10.  75.  71.  40.  24.  59. 583. 512. 120.  49.  20.
   6.   1.   0.   2.   1.   2.  30.  19.   7.   5.  19. 979.1045. 232.  93.  29.
   6.   0.   0.   0.   0.   1.   3.   3.   0.   0.   1. 202. 341.  95.  20.  11.
   0.   0.   0.   0.   0.   0.   2.   0.   0.   0.   0.   7.  14.   7.   3.   1.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   1.   0.   0.   0.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
 101. 0.50 2.35 3.47 4.59 6.82 9.06 11.313.5318.0122.37 55.0
0823.0823.0823.0823.0823.0823.0823.0823.0823.0823.0823.0823.0823.0823.0823.0823.
7300.7300.7300.7300.7300.7300.7300.7300.7300.7300.7300.7300.7300.7300.7300.7300.
   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.
   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.   1.
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0          RUN DATE: 04/28/08


PRINTOUT OF INPUT CARDS

   1     00010 01111 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000   2     Peach Bottom
Ground Release
   3     10.4 meters          10.4-21.1 meters
   4
   5     Peach Bottom, 1984-1988 Tower 1A met, RB Stack to EAB and LPZ                        6          11 43276      0
   7         0.500  2584.000     54.300     10.000     28.000
   8       2.000  0.000  0.000  1.000  9.000 14.000 49.000
   9      19.000 35.000 52.000 68.000119.000 43.000 18.000  3.000  1.000  0.000  1.000  1.000  2.000  1.000  2.000  6.000
   9      40.000 43.000 62.000104.000225.000184.000 60.000 17.000  8.000  0.000  5.000  7.000  9.000  1.000  5.000 12.000
   9      67.000 48.000 49.000 57.000141.000237.000144.000 60.000 17.000  6.000 12.000 22.000 13.000  1.000 10.000 26.000
   9     202.000 74.000 62.000 65.000157.000343.000545.000106.000 13.000  6.000  2.000 28.000 50.000 25.000 37.000160.000
   9     161.000 31.000 18.000 30.000 49.000196.000252.000 13.000  0.000  0.000  0.000  0.000 66.000 47.000 64.000344.000
   9      94.000  8.000  6.000 12.000 16.000 74.000 51.000  1.000  0.000  0.000  0.000  0.000 53.000 87.000116.000496.000
   9      35.000  4.000  3.000  1.000  2.000 19.000  8.000  0.000  0.000  0.000  0.000  0.000 25.000 47.000 91.000373.000
   9      33.000  2.000  1.000  3.000  0.000  9.000  3.000  0.000  0.000  0.000  0.000  0.000 10.000 37.000 97.000238.000
   9       7.000  0.000  1.000  0.000  0.000  1.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000 23.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  6.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       4.000 14.000 13.000 23.000 49.000 41.000  7.000  4.000  0.000  1.000  1.000  2.000  2.000  2.000  1.000  4.000
   9      19.000 18.000 21.000 24.000 48.000 60.000 44.000 17.000  5.000  3.000  2.000  5.000  6.000  2.000  3.000  7.000
   9      33.000 17.000 17.000 19.000 56.000 70.000 86.000 32.000  7.000  6.000  7.000 19.000 16.000 10.000 12.000 18.000
   9      69.000 33.000 24.000 43.000 76.000133.000190.000 33.000  3.000  0.000  7.000 31.000 57.000 27.000 33.000 93.000
   9      44.000 12.000 29.000 16.000 30.000 81.000 62.000  1.000  0.000  0.000  0.000  5.000 85.000 84.000 76.000151.000
   9      38.000  0.000  9.000  1.000 11.000 36.000 23.000  0.000  0.000  0.000  0.000  0.000 56.000 92.000113.000166.000
   9      10.000  0.000  4.000  1.000  3.000 11.000 10.000  0.000  0.000  0.000  0.000  0.000 27.000 87.000 65.000100.000
   9      10.000  0.000  1.000  2.000  0.000  9.000  4.000  0.000  0.000  0.000  0.000  0.000  5.000 49.000 46.000 74.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  1.000  0.000  0.000  0.000  0.000  0.000  0.000  2.000  4.000 11.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9      22.000 19.000 29.000 43.000113.000131.000 97.000 50.000 22.000 15.000 15.000 14.000 18.000  8.000  6.000  7.000
   9      52.000 26.000 31.000 37.000 76.000140.000274.000 81.000 33.000 21.000 30.000 55.000 58.000 22.000 16.000 26.000
   9      41.000 40.000 38.000 41.000100.000134.000323.000106.000 22.000 15.000 18.000 60.000 94.000 37.000 49.000 62.000
   9     114.000 90.000104.000103.000168.000233.000448.000134.000 17.000  5.000  8.000 85.000304.000214.000203.000217.000
   9      92.000 27.000 46.000 39.000 84.000146.000189.000 13.000  1.000  1.000  1.000 19.000276.000463.000367.000260.000
   9      54.000 12.000 15.000  4.000 35.000 66.000 76.000  0.000  0.000  0.000  1.000  3.000143.000437.000363.000219.000
   9      14.000  2.000  9.000  3.000 11.000 18.000 19.000  0.000  0.000  0.000  0.000  1.000 66.000213.000206.000 92.000
   9      13.000  3.000  1.000  0.000 10.000 20.000  6.000  1.000  0.000  0.000  0.000  0.000 23.000 88.000 73.000 53.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  8.000  3.000  3.000 13.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9      44.000 25.000 43.000 30.000 76.000240.000370.000149.000 73.000 47.000 52.000 55.000 44.000 21.000 21.000 27.000
   9      23.000 11.000 14.000 10.000 37.000 91.000352.000118.000 49.000 41.000 47.000 86.000 92.000 35.000 32.000 30.000
   9      22.000 15.000 12.000 17.000 32.000 48.000271.000 93.000 23.000 12.000 18.000 92.000138.000 67.000 36.000 32.000
   9      59.000 30.000 50.000 39.000 49.000 63.000260.000106.000 12.000  4.000  7.000 97.000298.000309.000171.000 95.000
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   9      47.000 21.000 21.000 17.000 55.000 63.000 61.000 20.000  1.000  1.000  1.000 11.000126.000362.000199.000120.000
   9      36.000  3.000  8.000 10.000 14.000 21.000 19.000  2.000  0.000  0.000  0.000  0.000 18.000105.000 70.000 54.000
   9      16.000  0.000  1.000  1.000 10.000 10.000 10.000  0.000  0.000  0.000  0.000  1.000  4.000 16.000 17.000 16.000
   9       4.000  0.000  0.000  0.000  9.000  7.000  2.000  0.000  0.000  0.000  0.000  0.000  1.000 11.000 11.000  4.000
   9       0.000  0.000  0.000  0.000  1.000  4.000  0.000  0.000  0.000  0.000  0.000  0.000  2.000  3.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9      27.000 21.000 17.000 32.000 62.000175.000393.000251.000130.000 89.000 80.000 79.000 79.000 42.000 46.000 41.000
   9      16.000  6.000  9.000  7.000 16.000 63.000248.000 88.000 42.000 31.000 57.000 90.000 97.000 44.000 26.000 25.000
   9      17.000  3.000  8.000  8.000  4.000 23.000154.000 81.000 24.000  8.000 23.000 91.000125.000 56.000 37.000 22.000
   9      10.000  4.000 11.000  5.000  8.000 12.000 45.000 36.000  8.000  4.000  7.000182.000260.000191.000115.000 49.000
   9      10.000  1.000  4.000  6.000 10.000  3.000  2.000  3.000  0.000  0.000  1.000 38.000 80.000119.000 44.000 24.000
   9       0.000  0.000  0.000  0.000  4.000  4.000  0.000  0.000  0.000  0.000  0.000  1.000  4.000  7.000 10.000 10.000
   9       0.000  0.000  0.000  0.000  9.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  0.000  0.000  2.000
   9       0.000  0.000  0.000  0.000  3.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  1.000  1.000  0.000
   9       0.000  0.000  0.000  0.000  2.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9      29.000 26.000 25.000 29.000 55.000161.000631.000864.000873.000573.000469.000420.000276.000127.000 72.000 43.000
   9      21.000 17.000 11.000  3.000 24.000 49.000222.000198.000146.000129.000227.000509.000463.000127.000 69.000 43.000
   9      10.000  2.000  1.000  2.000  4.000 10.000 75.000 71.000 40.000 24.000 59.000583.000512.000120.000 49.000 20.000
   9       6.000  1.000  0.000  2.000  1.000  2.000 30.000 19.000  7.000  5.000 19.000979.000*******232.000 93.000 29.000
   9       6.000  0.000  0.000  0.000  0.000  1.000  3.000  3.000  0.000  0.000  1.000202.000341.000 95.000 20.000 11.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  2.000  0.000  0.000  0.000  0.000  7.000 14.000  7.000  3.000  1.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  1.000  0.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000
   9       0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000  0.000 10        101.  0.500
2.350  3.470  4.590  6.820  9.060 11.300 13.530 18.010 22.370 55.000  0.000  0.000  0.000 11       823.   823.   823.   823.   823.   823.
823.   823.   823.   823.   823.   823.   823.   823.   823.   823. 11       7300.  7300.  7300.  7300.  7300.  7300.  7300.  7300.  7300.  7300.
7300.  7300.  7300.  7300.  7300.  7300.  12         1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0
1.0    1.0    1.0
  12        1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0    1.0
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USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 04/28/08

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 04/28/08

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.4 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988 Tower 1A met, RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

RELATIVE CONCENTRATION (X/Q) VALUES (SEC/CUBIC METER) VERSUS AVERAGING TIME

DOWNWIND SECTOR	DISTANCE (METERS)	0-2 HOURS	0-8 HOURS	8-24 HOURS	1-4 DAYS	4-30 DAYS	ANNUAL AVERAGE	HOURS PER YEAR MAX 0-2 HR X/Q IS EXCEEDED IN SECTOR	DOWNWIND SECTOR
S	823.	1.42E-04	6.98E-05	4.89E-05	2.26E-05	7.49E-06	1.93E-06	1.3	S
SSW	823.	7.21E-05	3.68E-05	2.63E-05	1.27E-05	4.45E-06	1.23E-06	261.5	SSW
SW	823.	9.44E-05	4.71E-05	3.32E-05	1.56E-05	5.28E-06	1.40E-06	1.2	SW
WSW	823.	9.59E-05	4.83E-05	3.43E-05	1.63E-05	5.60E-06	1.52E-06	1.3	WSW
W	823.	2.28E-04	1.13E-04	7.96E-05	3.73E-05	1.25E-05	3.29E-06	2.6	W
WNW	823.	4.63E-04	2.33E-04	1.65E-04	7.84E-05	2.69E-05	7.26E-06	7.7	WNW
NW	823.	8.07E-04	4.35E-04	3.20E-04	1.64E-04	6.26E-05	1.93E-05	31.4	NW
NNW	823.	9.08E-04	4.67E-04	3.35E-04	1.63E-04	5.78E-05	1.63E-05	43.3	NNW
N	823.	9.11E-04	4.53E-04	3.20E-04	1.50E-04	5.05E-05	1.33E-05	43.7	N
NNE	823.	7.76E-04	3.71E-04	2.56E-04	1.15E-04	3.65E-05	8.95E-06	28.2	NNE
NE	823.	7.17E-04	3.45E-04	2.39E-04	1.08E-04	3.46E-05	8.58E-06	22.9	NE
ENE	823.	6.87E-04	3.69E-04	2.70E-04	1.38E-04	5.22E-05	1.60E-05	20.5	ENE
E	823.	6.09E-04	3.32E-04	2.45E-04	1.27E-04	4.93E-05	1.55E-05	14.6	E
ESE	823.	4.08E-04	2.07E-04	1.48E-04	7.10E-05	2.48E-05	6.83E-06	6.0	ESE
SE	823.	3.12E-04	1.53E-04	1.07E-04	4.95E-05	1.63E-05	4.19E-06	3.4	SE
SSE	823.	2.14E-04	1.06E-04	7.45E-05	3.47E-05	1.16E-05	3.04E-06	2.1	SSE
MAX X/Q		9.11E-04				TOTAL HOURS AROUND SITE:		491.9	
SRP 2.3.4	823.	1.46E-03	7.13E-04	4.99E-04	2.30E-04	7.55E-05	1.93E-05		
SITE LIMIT		7.45E-04	4.07E-04	3.01E-04	1.56E-04	6.11E-05	1.93E-05		

THE FIVE-PERCENT-FOR-THE-ENTIRE-SITE X/Q IS LIMITING.

NOTE: VALUES ON THIS PAGE ARE APPROXIMATIONS ONLY.
CHECK THE REASONABLENESS OF THE ENVELOPES
COMPUTED FOR THE 0-2 HOUR VALUES. FOR ANY
FAULTY ENVELOPES, ADJUST THE ABOVE VALUES.

USNRC COMPUTER CODE-PAVAN, VERSION 2.0 RUN DATE: 04/28/08

PLANT NAME: Peach Bottom METEOROLOGICAL INSTRUMENTATION
DATA PERIOD: WIND SENSORS HEIGHT: 10.4 meters
TYPE OF RELEASE: Ground Release DELTA-T HEIGHTS: 10.4-21.1 meters
SOURCE OF DATA:
COMMENTS: Peach Bottom, 1984-1988 Tower 1A met, RB Stack to EAB and LPZ
PROGRAM: PAVAN, 10/76, 8/79 REVISION, IMPLEMENTATION OF REGULATORY GUIDE 1.145

RELATIVE CONCENTRATION (X/Q) VALUES (SEC/CUBIC METER) VERSUS AVERAGING TIME

DOWNWIND SECTOR	DISTANCE (METERS)	0-2 HOURS	0-8 HOURS	8-24 HOURS	1-4 DAYS	4-30 DAYS	ANNUAL AVERAGE	HOURS PER YEAR MAX 0-2 HR X/Q IS EXCEEDED IN SECTOR	DOWNWIND SECTOR
S	7300.	1.36E-05	5.85E-06	3.83E-06	1.53E-06	4.09E-07	8.15E-08	1.3	S
SSW	7300.	5.11E-06	2.39E-06	1.64E-06	7.18E-07	2.20E-07	5.18E-08	261.5	SSW
SW	7300.	7.18E-06	3.24E-06	2.18E-06	9.19E-07	2.66E-07	5.85E-08	1.2	SW
WSW	7300.	7.18E-06	3.28E-06	2.22E-06	9.47E-07	2.79E-07	6.27E-08	1.3	WSW
W	7300.	2.20E-05	9.50E-06	6.24E-06	2.50E-06	6.74E-07	1.36E-07	2.6	W
WNW	7300.	6.47E-05	2.68E-05	1.73E-05	6.66E-06	1.69E-06	3.16E-07	7.7	WNW
NW	7300.	1.22E-04	5.40E-05	3.59E-05	1.48E-05	4.15E-06	8.77E-07	31.4	NW
NNW	7300.	1.38E-04	5.81E-05	3.77E-05	1.48E-05	3.87E-06	7.48E-07	43.3	NNW
N	7300.	1.38E-04	5.64E-05	3.60E-05	1.36E-05	3.38E-06	6.13E-07	43.7	N
NNE	7300.	1.17E-04	4.61E-05	2.89E-05	1.05E-05	2.44E-06	4.12E-07	28.2	NNE
NE	7300.	1.09E-04	4.29E-05	2.70E-05	9.85E-06	2.32E-06	3.95E-07	22.9	NE
ENE	7300.	1.04E-04	4.58E-05	3.04E-05	1.25E-05	3.49E-06	7.33E-07	20.5	ENE
E	7300.	9.05E-05	4.06E-05	2.72E-05	1.14E-05	3.26E-06	7.05E-07	14.1	E
ESE	7300.	5.92E-05	2.48E-05	1.60E-05	6.22E-06	1.60E-06	3.04E-07	6.0	ESE
SE	7300.	4.19E-05	1.71E-05	1.09E-05	4.11E-06	1.01E-06	1.83E-07	3.4	SE
SSE	7300.	2.43E-05	1.02E-05	6.61E-06	2.57E-06	6.66E-07	1.27E-07	2.0	SSE
MAX X/Q		1.38E-04				TOTAL HOURS AROUND SITE:		491.2	
SRP 2.3.4	7300.	1.71E-04	7.15E-05	4.62E-05	1.79E-05	4.62E-06	8.77E-07		
SITE LIMIT		1.13E-04	5.05E-05	3.38E-05	1.42E-05	4.05E-06	8.77E-07		

THE FIVE-PERCENT-FOR-THE-ENTIRE-SITE X/Q IS LIMITING.

NOTE: VALUES ON THIS PAGE ARE APPROXIMATIONS ONLY.
CHECK THE REASONABLENESS OF THE ENVELOPES
COMPUTED FOR THE 0-2 HOUR VALUES. FOR ANY
FAULTY ENVELOPES, ADJUST THE ABOVE VALUES.

Computer Disclosure Sheet

Discipline Nuclear

Client:: Exelon Corporation/ Amergen
Project: Peach Bottom Atomic Power Station
Date: August 1, 2008

Program(s) used	Rev No.	Rev. Date
ARCON96	1	5/1997

Calculation No: PM-1055, Rev. 1
Status [ ] Prelim.
[X] Final
[ ] Void

WGI Prequalification [X] Yes
[ ] No

Description: ARCON96 X/Q analysis consistent with procedures in Draft Regulatory Guide 1111 and Regulatory Guide 1.194 for Control Room habitability assessments.

Analysis Description: ARCON96 calculations of X/Q are performed for stack and vent releases to the Control Room Intake. Centerline X/Q values, sector X/Q values and 95% max X/Q values are computed for 0-2 hours, 2-8 hours and 8-24 hours, 1-4 day, and 4-30 days.

The attached computer output has been reviewed, the input data checked,
And the results approved for release. Input criteria for this analysis were established.

By:		On:
Run by: T. Thomas	Traci Thomas	08/01/08
Checked by: J. Robinson	Jack Robinson	08/01/08
Approved by: J. Robinson	Jack Robinson	08/01/08

Computer Disclosure Sheet

Discipline Nuclear

Client: Exelon Corporation/ Amergen
Project: Peach Bottom Atomic Power Station
Date: August 1, 2008

Program(s) used	Rev No.	Rev Date
PAVAN	2	12/1997

Calculation No.: PM-1055, Rev. 1
Status [ ] Prelim.
[X] Final
[ ] Void

WGI Prequalification [X] Yes
[ ] No

Description: PAVAN X/Q analysis of Regulatory Guide 1.145 accidental release.

Analysis Description: PAVAN calculations of X/Q are performed for the EAB and outer LPZ distances. PAVAN calculations are also performed for the Control Room Intake for incorporation into the ARCON96 analysis per NRC DG-1111 and RG 1.194. Maximum 0-2 hour, 0-8 hour, and 8 –24 hour, 1-4 day and 4-30 day X/Q values are computed for each direction sector; and the 5th percentile overall site X/Q is also calculated. The higher value is selected.

The attached computer output has been reviewed, the input data checked,
And the results approved for release. Input criteria for this analysis were established.

By:	On:
Run by: T.Thomas	Traci Thomas 08/01/08
Checked by: J. Robinson	Jack Robinson 08/01/08
Approved by: J. Robinson	Jack Robinson 08/01/08

ATTACHMENT 3

PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3

NRC Docket Nos. 50-277 and 50-278

Renewed Facility Operating License Nos.
DPR-44 and DPR-56

PBAPS 1984-1988 Meteorological Tower Data Files
(Compact Disk)

ATTACHMENT 4

PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3

NRC Docket Nos. 50-277 and 50-278

Renewed Facility Operating License Nos.
DPR-44 and DPR-56

ARCON96 Meteorological Input Data Files and Supporting Information
(Compact Disk and Supporting Document)

Figure 1

Peach Bottom Atomic Power Station
Meteorological Data Format
Combined Tower 1A and Tower 2
1983 - 1990

Data Description	Format	Columns
Year	I2	1-2
Month	I2	3-4
Day	I2	5-6
Hour	I2	7-8
Blank	I1	9
Tower 1A		
34-ft Wind Direction (°Az)	I3	10-12
Blank	I1	13
34-ft Sigma Theta (Deg)	I3	14-16
Blank	I1	17
34-ft Wind Speed (mph x 10)	I3	18-20
Blank	I1	21
92-ft Wind Direction (°Az)	I3	22-24
Blank	I1	25
92-ft Sigma Theta (Deg)	I3	26-28
Blank	I1	29
92-ft Wind Speed (mph x 10)	I3	30-32
Blank	I1	33
33-ft Ambient Temperature (°F x 10)	I4	34-37
Blank	I1	38
89-33 ft Delta Temp. (°F x 10)	I4	39-42
Blank	I1	43
33-ft Dew Point Temp. (°F x 10)	I4	44-47
Blank	I1	48
Precipitation (inches x 100)	I4	49-52
Blank	I1	53
Tower 2		
33-ft Wind Direction (°Az)	I3	54-56
Blank	I1	57
33-ft Sigma Theta (Deg)	I3	58-60
Blank	I1	61
33-ft Wind Speed (mph x 10)	I3	62-64
Blank	I1	65
75-ft Wind Direction (°Az)	I3	66-68
Blank	I1	69
75-ft Sigma Theta (Deg)	I3	70-72
Blank	I1	73
75-ft Wind Speed (mph x 10)	I3	74-76
Blank	I1	77
320-ft Wind Direction (°Az)	I3	78-80
Blank	I1	81
320 ft Sigma Theta (Deg)	I3	82-84
Blank	I1	85
320 ft Wind Speed (mph x 10)	I3	86-88

Figure 1 (Cont'd)

Data Description	Format	Columns
Blank	I1	89
33-ft Ambient Temperature (°F x 10)	I4	90-93
Blank	I1	94
150-33 ft Delta Temp. (°F x 10)	I4	95-98
Blank	I1	99
320-33 ft Delta Temp. (°F x 10)	I4	100-103
Blank	I1	104
33-ft Dew Point Temp. (°F x 10)	I4	105-108
Blank	I1	109
Precipitation (inches x 100)	I4	110-113
Blank	I1	114
River Tower Wind Direction (°Az)	I3	115-117
Blank	I1	118
River Tower Sigma Theta (Deg)	I3	119-121
Blank	I1	122
River Tower Wind Speed (mph x 10)	I3	123-125
Blank	I1	126
Hill Pole Wind Direction (°Az)	I3	127-129
Blank	I1	130
Hill Pole Sigma Theta	I3	131-133
Blank	I1	134
Hill Pole Wind Speed (mph x 10)	I3	135-137
Blank		138
Tower 2 330-ft Direction (°Az)	I3	139-141
Blank	I1	142
Tower 2 330-ft Wind Speed (mph x 10)	I3	143-145
Blank	I1	146